Nanostructured materials for advanced energy convers

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Citation Report

#	Article	IF	Citations
1	Synthesis of Nanowire and Mesoporous Low-Temperature LiCoO2 by a Post-Templating Reaction. Angewandte Chemie - International Edition, 2005, 44, 6550-6553.	7.2	263
3	Local Conductivity Effects in Polymer Electrolytes. Advanced Materials, 2005, 17, 2630-2634.	11.1	64
4	AgI Nanoplates with Mesoscopic Superionic Conductivity at Room Temperature. Advanced Materials, 2005, 17, 2815-2819.	11.1	78
5	Quantum Size Effects in Semiconductor Photocatalysis. Theoretical and Experimental Chemistry, 2005, 41, 207-228.	0.2	64
6	Power sources for portable electronics and hybrid cars: lithium batteries and fuel cells. Chemical Record, 2005, 5, 286-297.	2.9	112
7	Silica-Added, Composite Poly(vinyl alcohol) Membranes for Fuel Cell Application. Journal of the Electrochemical Society, 2005, 152, A2400.	1.3	65
8	Silicon nanostructures from electroless electrochemical etching. Current Opinion in Solid State and Materials Science, 2005, 9, 73-83.	5.6	137
9	Synthesis of Graphitic Ordered Macroporous Carbon with a Three-Dimensional Interconnected Pore Structure for Electrochemical Applications. Journal of Physical Chemistry B, 2005, 109, 20200-20206.	1.2	195
10	Demonstrating Oxygen Loss and Associated Structural Reorganization in the Lithium Battery Cathode Li[Ni0.2Li0.2Mn0.6]O2. Journal of the American Chemical Society, 2006, 128, 8694-8698.	6.6	1,406
11	Changes in local Ni/Mn environment in layered LiMgxNi0.5â^'xMn0.5O2(0 â‰ x â‰ 0.10) after electrochemical extraction and reinsertion of lithium. Journal of Materials Chemistry, 2006, 16, 359-369.	6.7	28
12	Fabrication and Characterization of Cu[sub 2]O Nanorod Arrays and Their Electrochemical Performance in Li-Ion Batteries. Electrochemical and Solid-State Letters, 2006, 9, A207.	2.2	50
13	Conducting solids. Annual Reports on the Progress of Chemistry Section A, 2006, 102, 482.	0.8	2
14	Synthesis of Ordered Mesoporous Fe3O4and Î³-Fe2O3with Crystalline Walls Using Post-Template Reduction/Oxidation. Journal of the American Chemical Society, 2006, 128, 12905-12909.	6.6	306
15	Catalytic Effects of Subsurface Carbon in the Chemisorption of Hydrogen on a Mg(0001) Surface:Â an Ab-initio Study. Journal of Physical Chemistry B, 2006, 110, 1814-1819.	1.2	55
16	Freestanding Mesoporous Quasi-Single-Crystalline Co3O4Nanowire Arrays. Journal of the American Chemical Society, 2006, 128, 14258-14259.	6.6	338
17	Synthesis of hierarchically mesoporous anatase spheres and their application in lithium batteries. Chemical Communications, 2006, , 2783.	2.2	221
18	Ultrahigh-Surface-Area Metallic Electrodes by Templated Electroless Deposition on Functionalized Carbon Nanofiber Scaffolds. Chemistry of Materials, 2006, 18, 5398-5400.	3.2	30
19	Electrochemical Reactivity of Li2VOSiO4toward Li. Chemistry of Materials, 2006, 18, 407-412.	3.2	31

#	Article	IF	Citations
20	Nanoscale Conductivity Mapping of Hybrid Nanoarchitectures:Â Ultrathin Poly(o-phenylenediamine) on Mesoporous Manganese Oxide Ambigels. Langmuir, 2006, 22, 4462-4466.	1.6	32
21	Polymer-Functionalized Multiwalled Carbon Nanotubes as Lithium Intercalation Hosts. Journal of Physical Chemistry B, 2006, 110, 10236-10240.	1.2	36
22	Improving Lithium Batteries by Tethering Carbon-Coated LiFePO[sub 4] to Polypyrrole. Journal of the Electrochemical Society, 2006, 153, A2282.	1.3	167
23	Atomic Hydrogen Diffusion in Novel Magnesium Nanostructures: The Impact of Incorporated Subsurface Carbon Atoms. Journal of Physics: Conference Series, 2006, 29, 167-172.	0.3	9
24	Solvent-Controlled Synthesis and Electrochemical Lithium Storage of One-Dimensional TiO2Nanostructures. Inorganic Chemistry, 2006, 45, 6944-6949.	1.9	111
25	Correlation between Volume Change and Cell Voltage Variation with Composition for Lithium Intercalated Amorphous Films. Journal of Physical Chemistry B, 2006, 110, 4514-4518.	1.2	14
26	Anomalous Increase in Carbon Capacitance at Pore Sizes Less Than 1 Nanometer. Science, 2006, 313, 1760-1763.	6.0	3,404
27	Nanomaterials for lithium ion batteries. Nano Today, 2006, 1, 28-33.	6.2	470
28	Electrochemical lithiation synthesis of nanoporous materials with superior catalytic and capacitive activity. Nature Materials, 2006, 5, 713-717.	13.3	219
29	Superacid ZrO2-added, composite polymer electrolytes with improved transport properties. Electrochemistry Communications, 2006, 8, 364-368.	2.3	168
30	Dendrimers as nanoreactors to produce platinum nanoparticles embedded in layer-by-layer films for methanol-tolerant cathodes. Electrochemistry Communications, 2006, 8, 348-352.	2.3	64
31	Investigations on the enhancement mechanism of inorganic filler on ionic conductivity of PEO-based composite polymer electrolyte: The case of molecular sieves. Electrochimica Acta, 2006, 51, 4765-4770.	2.6	20
32	Urchin-like nano/micro hybrid anode materials for lithium ion battery. Carbon, 2006, 44, 2778-2784.	5.4	62
33	Transition from heterogeneous catalytic reaction to homogeneous one by variation of palladium particle size. Chemical Physics Letters, 2006, 430, 117-120.	1.2	19
34	High-performance polypyrrole electrode materials for redox supercapacitors. Electrochemistry Communications, 2006, 8, 937-940.	2.3	390
35	Nanoporous composite, low cost, protonic membranes for direct methanol fuel cells. Electrochemistry Communications, 2006, 8, 1125-1131.	2.3	22
36	Composite effects in poly(ethylene oxide)â€“succinonitrile based all-solid electrolytes. Electrochemistry Communications, 2006, 8, 1753-1756.	2.3	135
37	Characteristics of PVdF-HFP/TiO2 composite membrane electrolytes prepared by phase inversion and conventional casting methods. Electrochimica Acta, 2006, 51, 5636-5644.	2.6	212

#	Article	IF	Citations
38	PVDFâ€“PEO blends based microporous polymer electrolyte: Effect of PEO on pore configurations and ionic conductivity. Journal of Power Sources, 2006, 157, 501-506.	4.0	171
39	Layer-by-layer films of chitosan, poly(vinyl sulfonic acid), and platinum for methanol electrooxidation and oxygen electroreduction. Journal of Power Sources, 2006, 158, 160-163.	4.0	28
40	Effect of molecular sieves ZSM-5 on the crystallization behavior of PEO-based composite polymer electrolyte. Journal of Power Sources, 2006, 158, 627-634.	4.0	29
41	Advanced, high-performance composite polymer electrolytes for lithium batteries. Journal of Power Sources, 2006, 161, 560-564.	4.0	99
42	Advanced, lithium batteries based on high-performance composite polymer electrolytes. Journal of Power Sources, 2006, 162, 685-689.	4.0	150
43	Ab initio studies of hydrogen desorption from low index magnesium hydride surface. Surface Science, 2006, 600, 1854-1859.	0.8	67
44	Virus-Enabled Synthesis and Assembly of Nanowires for Lithium Ion Battery Electrodes. Science, 2006, 312, 885-888.	6.0	1,756
45	Nano-structuring of solid oxide fuel cells cathodes. Topics in Catalysis, 2006, 40, 123-131.	1.3	32
46	High-surface area inorganic compounds prepared by nanocasting techniques. Materials Research Bulletin, 2006, 41, 2187-2197.	2.7	105
47	Organic Reaction Pathways in the Nonaqueous Synthesis of Metal Oxide Nanoparticles. Chemistry - A European Journal, 2006, 12, 7282-7302.	1.7	439
48	Effects of Processing Parameters in the MOCVD Growth of Nanostructured Lanthanum Trifluoride and Oxyfluoride Thin Films. Chemical Vapor Deposition, 2006, 12, 736-741.	1.4	25
49	Nanostructured Vanadium Oxide Electrodes for Enhanced Lithium-Ion Intercalation. Advanced Functional Materials, 2006, 16, 1133-1144.	7.8	420
50	Crystallinity Control of a Nanostructured LiNi0.5Mn1.5O4 Spinel via Polymer-AssistedÂSynthesis: A Method for Improving Its Rate Capability and Performance in 5â€‰V Lithium Batteries. Advanced Functional Materials, 2006, 16, 1904-1912.	7.8	217
51	A Hybrid Supercapacitor Fabricated with a Carbon Nanotube Cathode and a TiO2â€“B Nanowire Anode. Advanced Functional Materials, 2006, 16, 2141-2146.	7.8	568
52	Fast and Reversible Surface Redox Reaction in Nanocrystalline Vanadium Nitride Supercapacitors. Advanced Materials, 2006, 18, 1178-1182.	11.1	720
53	High Lithium Electroactivity of Nanometer-Sized Rutile TiO2. Advanced Materials, 2006, 18, 1421-1426.	11.1	830
54	A Mechanism for the Fast Ionic Transport in Nanostructured Oxide-Ion Solid Electrolytes. Advanced Materials, 2006, 18, 3005-3009.	11.1	65
55	Macroporous Li(Ni1/3Co1/3Mn1/3)O2: A High-Power and High-Energy Cathode for Rechargeable Lithium Batteries. Advanced Materials, 2006, 18, 2330-2334.	11.1	225

#	Article	IF	Citations
56	TiO2(B) Nanowires as an Improved Anode Material for Lithium-Ion Batteries Containing LiFePO4 or LiNi0.5Mn1.5O4 Cathodes and a Polymer Electrolyte. Advanced Materials, 2006, 18, 2597-2600.	11.1	365
57	The performance of thin-film Li-ion batteries under flexural deflection. Journal of Micromechanics and Microengineering, 2006, 16, 2714-2721.	1.5	32
58	Preparation and Characterization of ALD TiN Thin Films on Lithium Titanate Spinel (Li4Ti5O12) for Lithium Ion Battery Applications. Materials Research Society Symposia Proceedings, 2006, 972, 1.	0.1	0
59	An XAS Study of the Local Environment of Ions in Soggy Sand Electrolytes. Electrochemical and Solid-State Letters, 2006, 9, A564.	2.2	14
60	Effect of Substrate Temperature on Morphology and Electrochemical Performance of Radio Frequency Magnetron Sputtered Lithium Nickel Vanadate Films Used as Negative Electrodes for Lithium Microbatteries. Journal of Physical Chemistry B, 2006, 110, 4301-4306.	1.2	36
61	Water electrolysis activated by Ru nanorod array electrodes. Applied Physics Letters, 2006, 88, 263106.	1.5	42
62	Bio-Applications of Nanoparticles. Advances in Experimental Medicine and Biology, 2007, , .	0.8	26
63	High performance hybrid lithium-ion batteries based on combinations of nanometric materials. Nanotechnology, 2007, 18, 295705.	1.3	8
64	Polymer composite electrolytes containing ionically active mesoporous SiO2 particles. Journal of Applied Physics, 2007, 102, .	1.1	29
65	On the Knudsen transport of gases in nanochannels. Journal of Chemical Physics, 2007, 127, 074706.	1.2	18
66	A Nonflammable Lithium Polymer Battery with High Performance for Elevated Temperature Applications. Electrochemical and Solid-State Letters, 2007, 10, A208.	2.2	12
67	Raman Spectroscopy of Nanocrystalline Li-Ti-O Spinels and Comparative DFT Calculations on TiyOz and LixTiyOz Clusters. Collection of Czechoslovak Chemical Communications, 2007, 72, 171-184.	1.0	5
68	Carbon-Halide Nanocomposites for Asymmetric Hybrid Supercapacitors. Materials Research Society Symposia Proceedings, 2007, 1056, 1.	0.1	0
69	Factors Influencing the Rate of Fe[sub 2]O[sub 3] Conversion Reaction. Electrochemical and Solid-State Letters, 2007, 10, A264.	2.2	79
71	Nanostructured assemblies from nucleotide-based amphiphiles. New Journal of Chemistry, 2007, 31, 1928.	1.4	28
72	Self-Assembled Nickel Hydroxide Three-Dimensional Nanostructures:Â A Nanomaterial for Alkaline Rechargeable Batteries. Crystal Growth and Design, 2007, 7, 170-174.	1.4	159
73	Novel urea assisted polymeric citrate route for the synthesis of nanocrystalline spinel LiMn2O4 powders. Journal of Alloys and Compounds, 2007, 441, 284-290.	2.8	35
74	Flexible energy storage devices based on nanocomposite paper. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13574-13577.	3.3	1,032

#	Article	IF	Citations
75	Polymer-Assisted Synthesis of Manganese Dioxide/Carbon Nanotube Nanocomposite with Excellent Electrocatalytic Activity toward Reduction of Oxygen. Journal of Physical Chemistry C, 2007, 111, 1882-1887.	1.5	167
76	Carbon/nanostructured Ru composites as electrodes for supercapacitors. New Carbon Materials, 2007, 22, 302-306.	2.9	15
77	Porous, self-supported Ni3S2â^•Ni nanoarchitectured electrode operating through efficient lithium-driven conversion reactions. Applied Physics Letters, 2007, 90, 143107.	1.5	65
78	Recent advances in liquid and polymer lithium-ion batteries. Journal of Materials Chemistry, 2007, 17, 3668.	6.7	101
79	Nanosize Effect on High-Rate Li-Ion Intercalation in LiCoO2Electrode. Journal of the American Chemical Society, 2007, 129, 7444-7452.	6.6	690
80	New Nanostructured Electrode Material for Electrochemical Supercapacitors. , 2007, , .		1
81	Doping crystalline polymer electrolytes with glymes. Journal of Materials Chemistry, 2007, 17, 3222.	6.7	13
82	Synthesis and Self-Assembly of fcc Phase FePt Nanorods. Journal of the American Chemical Society, 2007, 129, 6348-6349.	6.6	114
83	Theme issue: new energy materials. Journal of Materials Chemistry, 2007, 17, 3069.	6.7	2
84	First-Principle Studies of the Formation and Diffusion of Hydrogen Vacancies in Magnesium Hydride. Journal of Physical Chemistry C, 2007, 111, 8360-8365.	1.5	61
85	Molecular Monolayers Enhance the Formation of Electrocatalytic Platinum Nanoparticles on Vertically Aligned Carbon Nanofiber Scaffolds. Journal of Physical Chemistry C, 2007, 111, 7260-7265.	1.5	25
86	Design of nanoarchitectured electrode materials applied in new-generation rechargeable lithium ion batteries. Dalton Transactions, 2007, , 5235.	1.6	36
87	An Ab Initio Study of Lithium Diffusion in Titanium Disulfide Nanotubes. Chemistry of Materials, 2007, 19, 5302-5308.	3.2	46
88	High-Performance Solid-Oxide Fuel Cell Cathodes Based on Cobaltite Nanotubes. Journal of the American Chemical Society, 2007, 129, 3066-3067.	6.6	103
89	Fast, Completely Reversible Li Insertion in Vanadium Pentoxide Nanoribbons. Nano Letters, 2007, 7, 490-495.	4.5	375
90	Synthesis of Graphitic Carbon Nanostructures from Sawdust and Their Application as Electrocatalyst Supports. Journal of Physical Chemistry C, 2007, 111, 9749-9756.	1.5	147
91	Morphology Control of Layer-Structured Gallium Selenide Nanowires. Nano Letters, 2007, 7, 199-203.	4.5	79
92	Facilitated Lithium Storage in MoS2Overlayers Supported on Coaxial Carbon Nanotubes. Journal of Physical Chemistry C, 2007, 111, 1675-1682.	1.5	253

#	Article	IF	Citations
93	Pseudocapacitive Contributions to Electrochemical Energy Storage in TiO₂ (Anatase) Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 14925-14931.	1.5	3,863
94	Direct fabrication of single-walled carbon nanotube macro-films on flexible substrates. Chemical Communications, 2007, , 3042.	2.2	65
95	Aqueous Solution Synthesis of Anatase TiO2 Particles. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2007, 54, 824-827.	0.1	6
96	In Situ High-Energy Synchrotron Radiation Study of Solâ€“Gel Nanoparticle Formation in Supercritical Fluids. Angewandte Chemie - International Edition, 2007, 46, 1113-1116.	7.2	69
97	Formation of Lithiumâ€Driven Active/Inactive Nanocomposite Electrodes Based on Ca₃Co₄O₉ Nanoplates. Angewandte Chemie - International Edition, 2007, 46, 6654-6657.	7.2	75
100	Highly Organized Mesoporous TiO2 Films with Controlled Crystallinity: A Li-Insertion Study. Advanced Functional Materials, 2007, 17, 123-132.	7.8	158
101	Nanophase ZnCo₂O₄ as a High Performance Anode Material for Liâ€Ion Batteries. Advanced Functional Materials, 2007, 17, 2855-2861.	7.8	569
102	Succinonitrile as a Versatile Additive for Polymer Electrolytes. Advanced Functional Materials, 2007, 17, 2800-2807.	7.8	239
103	Synthesis of Hierarchically Porous Carbon Monoliths with Highly Ordered Microstructure and Their Application in Rechargeable Lithium Batteries with Highâ€Rate Capability. Advanced Functional Materials, 2007, 17, 1873-1878.	7.8	664
104	Î±â€Fe₂O₃ Nanoflakes as an Anode Material for Liâ€Ion Batteries. Advanced Functional Materials, 2007, 17, 2792-2799.	7.8	1,024
105	High Electroactivity of Polyaniline in Supercapacitors by Using a Hierarchically Porous Carbon Monolith as a Support. Advanced Functional Materials, 2007, 17, 3083-3087.	7.8	411
106	Aqueous Lithiumâ€Ion Battery LiTi₂(PO₄)₃/LiMn₂O₄ with High Power and Energy Densities as well as Superior Cycling Stability**. Advanced Functional Materials, 2007, 17, 3877-3884.	7.8	369
107	Highly Efficient Solid-State Dye-Sensitized TiO2 Solar Cells Using Donor-Antenna Dyes Capable of Multistep Charge-Transfer Cascades. Advanced Materials, 2007, 19, 1091-1095.	11.1	183
108	High-Rate, Long-Life Niâ€“Sn Nanostructured Electrodes for Lithium-Ion Batteries. Advanced Materials, 2007, 19, 1632-1635.	11.1	378
109	Mesoporous Crystalline Î²-MnO2â€”a Reversible Positive Electrode for Rechargeable Lithium Batteries. Advanced Materials, 2007, 19, 657-660.	11.1	482
110	Porous Co₃O₄ Nanotubes Derived From Co₄(CO)₁₂ Clusters on Carbon Nanotube Templates: A Highly Efficient Material For Liâ€Battery Applications. Advanced Materials, 2007, 19, 4505-4509.	11.1	430
111	Superior Electrode Performance of Nanostructured Mesoporous TiO₂ (Anatase) through Efficient Hierarchical Mixed Conducting Networks. Advanced Materials, 2007, 19, 2087-2091.	11.1	592
112	Improved Electrode Performance of Porous LiFePO₄ Using RuO₂ as an Oxidic Nanoscale Interconnect. Advanced Materials, 2007, 19, 1963-1966.	11.1	380

#	Article	IF	Citations
113	Nanostructured Snâ€“C Composite as an Advanced Anode Material in Highâ€Performance Lithiumâ€Ion Batteries. Advanced Materials, 2007, 19, 2336-2340.	11.1	836
114	An infrared study of the surface chemistry of lithium titanate spinel (Li4Ti5O12). Applied Surface Science, 2007, 253, 9336-9341.	3.1	35
115	Nitrogen-containing carbon spheres with very large uniform mesopores: The superior electrode materials for EDLC in organic electrolyte. Carbon, 2007, 45, 1757-1763.	5.4	330
116	A mechanism for carbon nanosheet formation. Carbon, 2007, 45, 2229-2234.	5.4	315
117	Nitrogen enriched mesoporous carbon spheres obtained by a facile method and its application for electrochemical capacitor. Electrochemistry Communications, 2007, 9, 569-573.	2.3	255
118	New electrochemical process for the in situ preparation of metal electrodes for lithium-ion batteries. Electrochemistry Communications, 2007, 9, 1239-1241.	2.3	4
119	Ionic conductivity in polyethylene-b-poly(ethylene oxide)/lithium perchlorate solid polymer electrolytes. Electrochimica Acta, 2007, 53, 1503-1511.	2.6	49
120	H2V3O8 single-crystal nanobelts: Hydrothermal preparation and formation mechanism. Acta Materialia, 2007, 55, 6192-6197.	3.8	32
121	LiMn2O4 hollow nanosphere electrode material with excellent cycling reversibility and rate capability. Electrochemistry Communications, 2007, 9, 1404-1409.	2.3	82
122	Capacitance response of carbons in solvent-free ionic liquid electrolytes. Electrochemistry Communications, 2007, 9, 1567-1572.	2.3	121
123	Acidâ€“gel-immobilized, nanoporous composite, protonic membranes as low cost system for Direct Methanol Fuel Cells. Electrochemistry Communications, 2007, 9, 2045-2050.	2.3	4
124	Mesoscale models of conductivity in polymeric electrolytesâ€”A comparative study. Electrochimica Acta, 2007, 53, 1556-1567.	2.6	6
125	Effect of particle dispersion on high rate performance of nano-sized Li4Ti5O12 anode. Electrochimica Acta, 2007, 52, 6470-6475.	2.6	164
126	Synthesis and characterization of nanosized LiNiVO4 electrode material. Journal of Power Sources, 2007, 163, 1040-1046.	4.0	13
127	Enhanced high rate performance of LiMn2O4 spinel nanoparticles synthesized by a hard-template route. Journal of Power Sources, 2007, 166, 492-498.	4.0	68
128	Preparation and rate capability of Li4Ti5O12 hollow-sphere anode material. Journal of Power Sources, 2007, 166, 514-518.	4.0	124
129	Dual-composite polymer electrolytes with enhanced transport properties. Journal of Power Sources, 2007, 167, 510-514.	4.0	39
130	Proton exchange membrane fuel cell from low temperature to high temperature: Material challenges. Journal of Power Sources, 2007, 167, 235-242.	4.0	482

#	Article	IF	Citations
131	Synthesis and electrochemical capacitance of binderless nanocomposite electrodes formed by dispersion of carbon nanotubes and carbon aerogels. Journal of Power Sources, 2007, 172, 991-998.	4.0	58
132	Mesoscale models of ac conductivity in composite polymeric electrolytes. Journal of Power Sources, 2007, 173, 748-754.	4.0	4
133	Lithium recycling behaviour of nano-phase-CuCo2O4 as anode for lithium-ion batteries. Journal of Power Sources, 2007, 173, 495-501.	4.0	207
134	Novel polymer electrolytes based on triblock poly(ethylene oxide)-poly(propylene oxide)-poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Over	4.0	22
135	Nanosized LiMYMn2â^'YO4 (M=Cr, Co and Ni) spinels synthesized by a sucrose-aided combustion method. Journal of Power Sources, 2007, 174, 1212-1217.	4.0	50
136	The role of the interface of tin electrodes in lithium cells: An impedance study. Journal of Power Sources, 2007, 174, 321-327.	4.0	31
137	XAS analysis on mesoporous vanadium oxide thin films by sol-gel. X-Ray Spectrometry, 2007, 36, 226-229.	0.9	0
138	Structural and electrochemical studies of annealed LiNiVO4 thin films. Surface and Interface Analysis, 2007, 39, 653-659.	0.8	9
139	A Oneâ€Step Approach Towards Carbonâ€Encapsulated Hollow Tin Nanoparticles and Their Application in Lithium Batteries. Small, 2007, 3, 2066-2069.	5.2	178
140	A multifunctional 3.5â€‰V iron-based phosphate cathode for rechargeableÂbatteries. Nature Materials, 2007, 6, 749-753.	13.3	870
141	Nanosynthesis by candlelight. Nature Nanotechnology, 2007, 2, 599-600.	15.6	36
142	Paper powers battery breakthrough. Nature Nanotechnology, 2007, 2, 598-599.	15.6	112
143	Electrochemically active flame-made nanosized spinels: LiMn2O4, Li4Ti5O12 and LiFe5O8. Materials Chemistry and Physics, 2007, 101, 372-378.	2.0	74
144	Effect of Digestion Time and Alkali Addition Rate on Physical Properties of Magnetite Nanoparticles. Journal of Physical Chemistry B, 2007, 111, 7978-7986.	1.2	152
145	Nanoporous cuprous oxide/lithia composite anode with capacity increasing characteristic and high rate capability. Nanotechnology, 2007, 18, 055706.	1.3	74
146	Investigation of Ptâ€“Ru nanoparticle catalysts for low temperature methanol electro-oxidation. Journal of Solid State Electrochemistry, 2007, 11, 1229-1238.	1.2	42
147	Battery performance of nanostructured lithium manganese oxide synthesized by ultrasonic spray pyrolysis at elevated temperature. Journal of Solid State Electrochemistry, 2007, 12, 57-62.	1.2	20
148	Electrochemical capacitive properties of cadmium oxide films. Electrochimica Acta, 2007, 53, 695-699.	2.6	37

#	Article	IF	Citations
149	Flower-like CuO film-electrode for lithium ion batteries and the effect of surface morphology on electrochemical performance. Electrochimica Acta, 2007, 53, 951-956.	2.6	88
150	Nanotechnology and the environment: A European perspective. Science and Technology of Advanced Materials, 2007, 8, 19-24.	2.8	184
151	Large-scale synthesis of single-crystal hexagonal tungsten trioxide nanowires and electrochemical lithium intercalation into the nanocrystals. Journal of Solid State Chemistry, 2007, 180, 98-105.	1.4	186
152	The synthesis and lithium intercalation electrochemistry of VO2(B) ultra-thin nanowires. Journal of Power Sources, 2008, 178, 723-728.	4.0	100
153	Solid state double layer capacitor based on a polyether polymer electrolyte blend and nanostructured carbon black electrode composites. Journal of Power Sources, 2008, 177, 652-659.	4.0	33
154	Layer-by-layer self-assembly of manganese oxide nanosheets/polyethylenimine multilayer films as electrodes for supercapacitors. Journal of Power Sources, 2008, 184, 695-700.	4.0	45
155	Fast and reversible lithium-induced electrochemical alloying in tin-based composite oxide hierarchical microspheres assembled by nanoplate building blocks. Journal of Power Sources, 2008, 182, 334-339.	4.0	10
156	A high energy Li-ion battery based on nanosized LiNi0.5Mn1.5O4 cathode material. Journal of Power Sources, 2008, 183, 310-315.	4.0	46
157	Gel-based composite polymer electrolytes with novel hierarchical mesoporous silica network for lithium batteries. Electrochimica Acta, 2008, 53, 8001-8007.	2.6	35
158	The nickelâ€“carbon asymmetric supercapacitorâ€”Performance, energy density and electrode mass ratios. Electrochimica Acta, 2008, 54, 535-539.	2.6	74
159	Novel method to deposit metal particles on transition metal oxide films and its application in lithium-ion batteries. Electrochimica Acta, 2008, 54, 197-202.	2.6	18
160	The influence of carbon source on the wall structure of ordered mesoporous carbons. Journal of Porous Materials, 2008, 15, 601-611.	1.3	54
161	Origin of Capacity Fading in Nano-Sized Co3O4Electrodes: Electrochemical Impedance Spectroscopy Study. Nanoscale Research Letters, 2008, 3, .	3.1	58
162	Lithium AlPO4 composite polymer battery with nanostructured LiMn2O4 cathode. Journal of Solid State Electrochemistry, 2008, 12, 295-302.	1.2	7
163	Sizeâ€•and Shapeâ€Controlled Conversion of Tungstateâ€Based Inorganicâ€“Organic Hybrid Belts to WO₃ Nanoplates with High Specific Surface Areas. Small, 2008, 4, 1813-1822.	5.2	183
164	A Universal Model for Nanoporous Carbon Supercapacitors Applicable to Diverse Pore Regimes, Carbon Materials, and Electrolytes. Chemistry - A European Journal, 2008, 14, 6614-6626.	1.7	545
165	Nanocomposites of IV Element (Germanium and Silicon) and Carbon for a Li-Storage Material. Chemie-Ingenieur-Technik, 2008, 80, 1242-1242.	0.4	0
166	Oriented Nanostructures for Energy Conversion and Storage. ChemSusChem, 2008, 1, 676-697.	3.6	367

#	Article	IF	Citations
167	The Reinforcing Effect of Combined Carbon Nanotubes and Acetylene Blacks on the Positive Electrode of Lithiumâ€Ion Batteries. ChemSusChem, 2008, 1, 911-915.	3.6	107
168	Polymerâ€Mediated Growth of Highly Crystalline Nanoâ€and Microâ€Sized LiNi0.5Mn1.5O4Spinels. European Journal of Inorganic Chemistry, 2008, 2008, 3295-3302.	1.0	15
169	Nanomaterials for Rechargeable Lithium Batteries. Angewandte Chemie - International Edition, 2008, 47, 2930-2946.	7.2	5,473
170	Theoretical Model for Nanoporous Carbon Supercapacitors. Angewandte Chemie - International Edition, 2008, 47, 520-524.	7.2	526
171	Superior Storage Performance of a Si@SiO_x/C Nanocomposite as Anode Material for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2008, 47, 1645-1649.	7.2	910
172	Shaping Supramolecular Nanofibers with Nanoparticles Forming Complementary Hydrogen Bonds. Angewandte Chemie - International Edition, 2008, 47, 1861-1865.	7.2	82
173	Desolvation of Ions in Subnanometer Pores and Its Effect on Capacitance and Doubleâ€Layer Theory. Angewandte Chemie - International Edition, 2008, 47, 3392-3395.	7.2	569
174	The Design of a LiFePO₄/Carbon Nanocomposite With a Coreâ€“Shell Structure and Its Synthesis by an Inâ€…Situ Polymerization Restriction Method. Angewandte Chemie - International Edition, 2008, 47, 7461-7465.	7.2	816
175	Synthesis of Ordered Mesoporous Liâ€“Mnâ€“O Spinel as a Positive Electrode for Rechargeable Lithium Batteries. Angewandte Chemie - International Edition, 2008, 47, 9711-9716.	7.2	201
176	Synthesis and Application of Graphitic Carbon with High Surface Area. Advanced Functional Materials, 2008, 18, 1790-1798.	7.8	59
177	Aligned Titania Nanotubes as an Intercalation Anode Material for Hybrid Electrochemical Energy Storage. Advanced Functional Materials, 2008, 18, 3787-3793.	7.8	97
178	An Electrochemical Bottomâ€Up Approach to Producing Nanostructured Electrodes Based on Nanocolumnar ZnO Acting as a Selfâ€Assembled Template. Advanced Functional Materials, 2008, 18, 3598-3605.	7.8	16
179	Enhanced Potential of Amorphous Electrode Materials: Case Study of RuO₂. Advanced Materials, 2008, 20, 501-505.	11.1	185
180	Tinâ€Nanoparticles Encapsulated in Elastic Hollow Carbon Spheres for Highâ€Performance Anode Material in Lithiumâ€Ion Batteries. Advanced Materials, 2008, 20, 1160-1165.	11.1	1,002
181	Thinâ€Walled Carbon Nanocages: Direct Growth, Characterization, and Applications. Advanced Materials, 2008, 20, 1071-1075.	11.1	43
182	Developments in Nanostructured Cathode Materials for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Materials, 2008, 20, 2251-2269.	11.1	1,050
183	Selfâ€Supported Formation of Needlelike Co₃O₄ Nanotubes and Their Application as Lithiumâ€Ion Battery Electrodes. Advanced Materials, 2008, 20, 258-262.	11.1	978
184	Precursorâ€Controlled Formation of Novel Carbon/Metal and Carbon/Metal Oxide Nanocomposites. Advanced Materials, 2008, 20, 1727-1731.	11.1	192

#	Article	IF	Citations
185	A Nanostructured Snâ€“C Composite Lithium Battery Electrode with Unique Stability and High Electrochemical Performance. Advanced Materials, 2008, 20, 3169-3175.	11.1	393
186	A Germaniumâ€“Carbon Nanocomposite Material for Lithium Batteries. Advanced Materials, 2008, 20, 3079-3083.	11.1	271
187	Nanostructured Materials for Electrochemical Energy Conversion and Storage Devices. Advanced Materials, 2008, 20, 2878-2887.	11.1	2,054
188	Hollow Microâ€Nanostructures: Synthesis and Applications. Advanced Materials, 2008, 20, 3987-4019.	11.1	2,820
196	Performance of Thinâ€Film Lithium Energy Cells under Uniaxial Pressure. Advanced Engineering Materials, 2008, 10, 393-399.	1.6	25
197	Size evolution of palladium nanoparticles from low-temperature solvated atoms. Journal of Crystal Growth, 2008, 310, 495-500.	0.7	6
198	UV-cured methacrylic membranes as novel gelâ€“polymer electrolyte for Li-ion batteries. Journal of Power Sources, 2008, 178, 751-757.	4.0	85
199	Performance and degradation of high temperature polymer electrolyte fuel cell catalysts. Journal of Power Sources, 2008, 178, 525-536.	4.0	113
200	Novel carbon nanofiber-cobalt oxide composites for lithium storage with large capacity and high reversibility. Journal of Power Sources, 2008, 176, 369-372.	4.0	82
201	PMMA-assisted synthesis of Li1â^'xNi0.5Mn1.5O4â^'Î´ for high-voltage lithium batteries with expanded rate capability at high cycling temperatures. Journal of Power Sources, 2008, 180, 852-858.	4.0	41
202	Chromium doping as a new approach to improve the cycling performance at high temperature of 5V LiNi0.5Mn1.5O4-based positive electrode. Journal of Power Sources, 2008, 185, 501-511.	4.0	111
203	Fabrication and characterization of Fe3O4-based Cu nanostructured electrode for Li-ion battery. Journal of Power Sources, 2008, 185, 512-518.	4.0	66
204	Li-storage and cyclability of urea combustion derived ZnFe2O4 as anode for Li-ion batteries. Electrochimica Acta, 2008, 53, 2380-2385.	2.6	232
205	The structural evolution and lithiation behavior of vacuum-deposited Si film with high reversible capacity. Electrochimica Acta, 2008, 53, 5660-5664.	2.6	56
206	Tremella-like molybdenum dioxide consisting of nanosheets as an anode material for lithium ion battery. Electrochemistry Communications, 2008, 10, 118-122.	2.3	163
207	Ionic transport behavior in poly(ethylene oxide)â€“poly(propylene oxide)â€“poly(ethylene oxide) and LiClO4 complex. Electrochimica Acta, 2008, 53, 2448-2452.	2.6	25
208	Increasing ionic conductivity and mechanical strength of a plastic electrolyte by inclusion of a polymer. Electrochimica Acta, 2008, 54, 209-215.	2.6	77
209	Templated synthesis of high surface area inorganic oxides by silica aquagel-confined co-precipitation. Microporous and Mesoporous Materials, 2008, 112, 291-298.	2.2	10

#	Article	IF	Citations
210	Manganese oxide based materials for supercapacitors. Energy Materials, 2008, 3, 186-200.	0.1	129
211	Hydrogen spillover in the context of hydrogen storage using solid-state materials. Energy and Environmental Science, 2008, 1, 338.	15.6	133
212	Facile synthesis of nanoporous anatase spheres and their environmental applications. Chemical Communications, 2008, , 1184.	2.2	146
213	Surface structures and crystal morphologies of LiFePO4: relevance to electrochemical behaviour. Journal of Materials Chemistry, 2008, 18, 1209.	6.7	232
214	Electrical Conductivity of Submicrometer Gadolinia-Doped Ceria Sintered at 1000Â°C Using Precipitation-Synthesized Nanocrystalline Powders. Journal of the American Ceramic Society, 2008, 91, 3267-3274.	1.9	25
215	Building better batteries. Nature, 2008, 451, 652-657.	13.7	16,547
216	Materials for electrochemical capacitors. Nature Materials, 2008, 7, 845-854.	13.3	14,090
217	Effect of clustering on the thermal conductivity of nanofluids. Materials Chemistry and Physics, 2008, 109, 50-55.	2.0	269
218	Ammonium carboxylates assisted combustion process for the synthesis of nanocrystalline LiCoO2 powders. Materials Chemistry and Physics, 2008, 109, 241-248.	2.0	14
219	Issue and challenges facing rechargeable thin film lithium batteries. Materials Research Bulletin, 2008, 43, 1913-1942.	2.7	514
220	Ion exchange and electrochemical evaluation of the microporous phosphate Li9Fe7(PO4)10. Materials Research Bulletin, 2008, 43, 3389-3396.	2.7	6
221	Preparation of super paramagnetic crystalline mesoporous Î³-Fe2O3 with high surface. Materials Letters, 2008, 62, 943-945.	1.3	28
222	MnO₂/Poly(3,4-ethylenedioxythiophene) Coaxial Nanowires by One-Step Coelectrodeposition for Electrochemical Energy Storage. Journal of the American Chemical Society, 2008, 130, 2942-2943.	6.6	656
223	Solid polymer electrolytes: materials designing and all-solid-state battery applications: an overview. Journal Physics D: Applied Physics, 2008, 41, 223001.	1.3	840
224	Nitridation-Driven Conductive Li₄Ti₅O₁₂ for Lithium Ion Batteries. Journal of the American Chemical Society, 2008, 130, 14930-14931.	6.6	405
225	Ammonia-Evaporation-Induced Synthetic Method for Metal (Cu, Zn, Cd, Ni) Hydroxide/Oxide Nanostructures. Chemistry of Materials, 2008, 20, 567-576.	3.2	142
226	Synthesis of Tetrahedral LiFeO₂ and Its Behavior as a Cathode in Rechargeable Lithium Batteries. Journal of the American Chemical Society, 2008, 130, 3554-3559.	6.6	74
227	Synthesis of hybrid nanowire arrays and their application as high power supercapacitor electrodes. Chemical Communications, 2008, , 2373.	2.2	180

#	Article	IF	Citations
228	Phase-Controlled Synthesis of MnO2 Nanocrystals by Anodic Electrodeposition: Implications for High-Rate Capability Electrochemical Supercapacitors. Journal of Physical Chemistry C, 2008, 112, 15075-15083.	1.5	125
229	LiMn₂O₄ Nanorods, Nanothorn Microspheres, and Hollow Nanospheres as Enhanced Cathode Materials of Lithium Ion Battery. Journal of Physical Chemistry C, 2008, 112, 12051-12057.	1.5	129
230	Toward Flexible Batteries. Science, 2008, 319, 737-738.	6.0	1,017
231	Nanostructured electrode materials for electrochemical energy storage and conversion. Energy and Environmental Science, 2008, 1, 621.	15.6	548
232	Electrochemical Materials for PEM Fuel Cells: Insights from Physical Theory and Simulation. Modern Aspects of Electrochemistry, 2008, , 1-79.	0.2	3
233	Towards a nanostructured thermoelectric generator using ion-track lithography. Journal of Micromechanics and Microengineering, 2008, 18, 104015.	1.5	29
234	Nanocrystal Assembled TiO2 Particles Prepared from Aqueous Solution. Crystal Growth and Design, 2008, 8, 3213-3218.	1.4	41
235	Template-Directed Materials for Rechargeable Lithium-Ion Batteries. Chemistry of Materials, 2008, 20, 667-681.	3.2	507
236	Structure and assembly of dense solutions and melts of single tethered nanoparticles. Journal of Chemical Physics, 2008, 128, 164904.	1.2	69
237	Novel Antimony/Aluminum/Carbon Nanocomposite for High-Performance Rechargeable Lithium Batteries. Chemistry of Materials, 2008, 20, 3169-3173.	3.2	56
238	Shape control of inorganic materials via electrodeposition. Dalton Transactions, 2008, , 5432.	1.6	88
239	Î±-CuV₂O₆ Nanowires: Hydrothermal Synthesis and Primary Lithium Battery Application. Journal of the American Chemical Society, 2008, 130, 5361-5367.	6.6	281
240	Hollow Coreâ€“Shell Mesospheres of Crystalline SnO₂ Nanoparticle Aggregates for High Capacity Li⁺ Ion Storage. Chemistry of Materials, 2008, 20, 1841-1846.	3.2	367
241	Mesoporous Co₃O₄ Nanowire Arrays for Lithium Ion Batteries with High Capacity and Rate Capability. Nano Letters, 2008, 8, 265-270.	4.5	1,234
242	From cobalt nitrate carbonate hydroxide hydrate nanowires to porous Co₃O₄nanorods for high performance lithium-ion battery electrodes. Nanotechnology, 2008, 19, 035711.	1.3	105
243	Novel Microwave Synthesis of Nanocrystalline SnO₂ and Its Electrochemical Properties. Journal of Physical Chemistry C, 2008, 112, 4550-4556.	1.5	95
244	Three-Dimensionally Ordered Macroporous Lithium Manganese Oxide for Rechargeable Lithium Batteries. Chemistry of Materials, 2008, 20, 4783-4790.	3.2	89
245	Effect of Carbon Particle Size on Electrochemical Performance of EDLC. Journal of the Electrochemical Society, 2008, 155, A531.	1.3	173

#	Article	IF	Citations
246	Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. Progress in Solid State Chemistry, 2008, 36, 1-133.	3.9	58
247	First-Principles Investigation of the Liâ^'Feâ^'F Phase Diagram and Equilibrium and Nonequilibrium Conversion Reactions of Iron Fluorides with Lithium. Chemistry of Materials, 2008, 20, 5274-5283.	3.2	219
248	Spinel LiMn₂O₄ Nanorods as Lithium Ion Battery Cathodes. Nano Letters, 2008, 8, 3948-3952.	4.5	579
249	First-principles study of the H2 interaction with transition metal (Ti, V, Ni) doped Mg(0001) surface: Implications for H-storage materials. Journal of Chemical Physics, 2008, 129, 174703.	1.2	34
250	Detection of surface layers using 7Li MAS NMR. Journal of Materials Chemistry, 2008, 18, 4266.	6.7	45
251	Carbon nanotube cell translocation and delivery of nucleic acidsin vitro and in vivo. Journal of Materials Chemistry, 2008, 18, 17-22.	6.7	71
252	Î²-Cyclodextrin-Assisted Synthesis of Superparamagnetic Magnetite Nanoparticles from a Single Fe(III) Precursor. Journal of Physical Chemistry C, 2008, 112, 17148-17155.	1.5	46
253	Fast Electrochemistry of Conductive Polymer Nanotubes: Synthesis, Mechanism, and Application. Accounts of Chemical Research, 2008, 41, 699-707.	7.6	389
254	Size effects and nanostructured materials for energy applications. Energy and Environmental Science, 2008, 1, 645.	15.6	169
255	Three-Dimensional Pt-Coated Au Nanoparticle Arrays:â€‰Applications for Electrocatalysis and Surface-Enhanced Raman Scattering. Langmuir, 2008, 24, 4370-4375.	1.6	39
256	Amorphous Silicon Dioxide Nanowire Array Synthesized via Carbonization of Polyimide Thin Film. Journal of Physical Chemistry C, 2008, 112, 4463-4468.	1.5	20
257	Fabrication of NiO Nanowall Electrodes for High Performance Lithium Ion Battery. Chemistry of Materials, 2008, 20, 3360-3367.	3.2	605
258	Synthesis of Nanocrystalline Li[sub 4]Ti[sub 5]O[sub 12] by Chemical Lithiation of Anatase Nanocrystals and Postannealing. Journal of the Electrochemical Society, 2008, 155, A553.	1.3	53
259	Stamped microbattery electrodes based on self-assembled M13 viruses. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17227-17231.	3.3	144
260	Inverse Opal Carbons Derived from a Polymer Precursor as Electrode Materials for Electric Double-Layer Capacitors. Journal of the Electrochemical Society, 2008, 155, K42.	1.3	49
261	Nanodomain fragmentation and local rearrangements in CdSe under pressure. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19612-19616.	3.3	27
262	Studies on Nano-CaOÂ·SnO₂ and Nano-CaSnO₃ as Anodes for Li-Ion Batteries. Chemistry of Materials, 2008, 20, 6829-6839.	3.2	72
263	Poly(3,4-ethylenedioxythiophene) nanotubes as electrode materials for a high-powered supercapacitor. Nanotechnology, 2008, 19, 215710.	1.3	196

#	Article	IF	Citations
264	Graphitic Carbon Nanofibers Synthesized by the Chemical Vapor Deposition (CVD) Method and Their Electrochemical Performances in Supercapacitors. Energy & Fuels, 2008, 22, 4139-4145.	2.5	52
265	Synthesis and Lithium Insertion into Nanophase MgTi2O5 with Pseudo-Brookite Structure. Chemistry of Materials, 2008, 20, 2192-2197.	3.2	10
266	Preparation and ionic transport properties of YDCâ€“YSZ nanocomposites. Journal of Materials Chemistry, 2008, 18, 4537.	6.7	17
267	Aligned Bundles of Carbon Nanotubes Are Easily Grown on As-Synthesized Mesoporous Silicate Substrates. Journal of Physical Chemistry C, 2008, 112, 15157-15162.	1.5	10
268	Impact of Nanosizing on Lithiated Rutile TiO₂. Chemistry of Materials, 2008, 20, 2949-2955.	3.2	138
269	Facile Insertion of Lithium into Nanocrystalline AlNbO4 at Room Temperature. Chemistry of Materials, 2008, 20, 4557-4559.	3.2	24
270	Enhanced Rate Capabilities of Nanobrookite with Electronically Conducting MWCNT Networks. Crystal Growth and Design, 2008, 8, 4506-4510.	1.4	32
271	Organic Solvent-Redispersible Isolated Single Wall Carbon Nanotubes Coated by in-Situ Polymerized Surfactant Monolayer. Macromolecules, 2008, 41, 3261-3266.	2.2	35
272	Impact of Binder Choice on the Performance of Î±-Fe[sub 2]O[sub 3] as a Negative Electrode. Journal of the Electrochemical Society, 2008, 155, A812.	1.3	153
273	Effect of the Number and Placement of Polymer Tethers on the Structure of Concentrated Solutions and Melts of Hybrid Nanoparticles. Langmuir, 2008, 24, 11119-11130.	1.6	62
274	Formation of Flower-Like Carbon Nanosheet Aggregations and Their Electrochemical Application. Journal of Physical Chemistry C, 2008, 112, 13114-13120.	1.5	59
275	Morphology-Dependent Electrochemical Supercapacitor Properties of Indium Oxide. Electrochemical and Solid-State Letters, 2008, 11, A9.	2.2	40
276	Facile Electrochemical Synthesis of Single-Crystalline Copper Nanospheres, Pyramids, and Truncated Pyramidal Nanoparticles from Lithia/Cuprous Oxide Composite Thin Films. Journal of Physical Chemistry C, 2008, 112, 4176-4179.	1.5	29
277	Tetragonal Zinc Diphosphide and Its Nanocomposite as an Anode for Lithium Secondary Batteries. Chemistry of Materials, 2008, 20, 6319-6324.	3.2	80
278	Multilayered Cobalt Oxide Platelets for Negative Electrode Material of a Lithium-Ion Battery. Journal of the Electrochemical Society, 2008, 155, A903.	1.3	151
279	Nanostructured anode materials for Li-ion batteries. Pure and Applied Chemistry, 2008, 80, 2283-2295.	0.9	34
280	ZnO nanoneedle arrays directly grown on bulk nickel substrate for li ion battery electrodes with improved performance. , 2008, , .		0
281	Electrochemistry of LiV[sub 3]O[sub 8] Nanoparticles Made by Flame Spray Pyrolysis. Electrochemical and Solid-State Letters, 2008, 11, A46.	2.2	58

#	Article	IF	Citations
282	Improving the Performance of Lithium-Ion Batteries by Using Spinel Nanoparticles. Journal of Nanomaterials, 2008, 2008, 1-10.	1.5	11
283	Water-Cooked Cu[sub 2]O Films for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2008, 155, A452.	1.3	15
284	The Synthesis of Hollow Spherical Li[sub 4]Ti[sub 5]O[sub 12] by Macroemulsion Method and its Application in Li-Ion Batteries. Electrochemical and Solid-State Letters, 2008, 11, A116.	2.2	23
285	The growth mechanism for silicon oxide nanowires synthesized from an Au nanoparticle/polyimide/Si thin film stack. Nanotechnology, 2008, 19, 125604.	1.3	12
286	HOTPLATE TECHNIQUE FOR NANOMATERIALS. Cosmos, 2008, 04, 235-255.	0.4	8
287	The influence of surface mechanics on diffusion induced stresses within spherical nanoparticles. Journal of Applied Physics, 2008, 104, .	1.1	259
288	Atomic-scale measurement of ultraslow Li motions in glassyLiAlSi2O6by two-timeL6ispin-alignment echo NMR correlation spectroscopy. Physical Review B, 2008, 78, .	1.1	54
289	Micropore size distribution in nanocrystal assembled TiO2 particles. Journal of the Ceramic Society of Japan, 2008, 116, 426-430.	0.5	4
290	Synthesis of nanocrystal assembled TiO2 particles by boric acid free liquid phase crystal deposition. Journal of the Ceramic Society of Japan, 2008, 116, 422-425.	0.5	3
291	Electrode Properties ofMn2O3Nanospheres Synthesized by Combined Sonochemical/Solvothermal Method for Use in Electrochemical Capacitors. Journal of Nanomaterials, 2008, 2008, 1-8.	1.5	37
292	ãƒŠãƒŽçµæ™¶LiCoO2ã®åŸºæˆ–é›»æ¥µç‰¹æ€§. Electrochemistry, 2008, 76, 349-353.	0.6	0
293	Novel Ceramic Supramolecular Two Additive Composite Polymeric Electrolytes.. ECS Meeting Abstracts, 2008, , .	0.0	0
294	Hierarchical transport networks optimizing dynamic response of permeable energy-storage materials. Physical Review E, 2009, 80, 016310.	0.8	4
295	Li diffusion properties of mixed conductingTiO2-Bnanowires. Physical Review B, 2009, 80, .	1.1	31
296	Optimizing transient transport in materials having two scales of porosity. Physical Review E, 2009, 79, 036304.	0.8	5
297	Facile Fabrication of Cu[sub 2]Oâ•CuO Nanocomposite Films for Lithium-Ion Batteries via Chemical Bath Deposition. Electrochemical and Solid-State Letters, 2009, 12, A50.	2.2	27
298	Solid-State Materials for Clean Energy: Insights from Atomic-Scale Modeling. MRS Bulletin, 2009, 34, 935-941.	1.7	27
299	Synthesis of Polypyrrole-Intercalated Layered Manganese Oxide Nanocomposite by a Delaminationâ•Reassembling Method and Its Electrochemical Capacitance Performance. Electrochemical and Solid-State Letters, 2009, 12, A95.	2.2	37

#	Article	IF	Citations
300	Self-Oriented Ca[sub 3]Co[sub 4]O[sub 9] Thin Film as an Anode Material for Enhanced Cycling Stability of Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2009, 12, A176.	2.2	10
301	Electrochemical properties of SnO 2 nanorods as anode materials in lithium-ion battery. Chinese Physics B, 2009, 18, 4564-4570.	0.7	23
302	Li Ion Diffusion in Nanocrystalline and Nanoglassy LiAlSi₂O₆ and LiBO₂ - Structure-Dynamics Relations in Two Glass Forming Compounds. Zeitschrift Fur Physikalische Chemie, 2009, 223, 1359-1377.	1.4	21
303	Nanostructured Materials for Electrochemical Energy Production and Storage. Nanostructure Science and Technology, 2009, , .	0.1	9
304	Tin nanoparticle thin film electrodes fabricated by the vacuum filtration method for enhanced battery performance. Nanotechnology, 2009, 20, 235203.	1.3	10
305	Hierarchical and Resilient Conductive Network of Bridged Carbon Nanotubes and Nanofibers for High-Energy Si Negative Electrodes. Electrochemical and Solid-State Letters, 2009, 12, A76.	2.2	55
306	Influence of Carbon Content on LiFePO[sub 4]/C Samples Synthesized by Freeze-Drying Process. Journal of the Electrochemical Society, 2009, 156, A817.	1.3	22
307	Preparation and characterization of SnO2/carbon nanotube composite for lithium ion battery applications. Materials Letters, 2009, 63, 1946-1948.	1.3	101
308	Giant Diamagnetism in AuFe Nanoparticles. IEEE Transactions on Magnetics, 2009, 45, 2442-2445.	1.2	5
309	Nanostructured materials for advanced Li-Ion rechargeable batteries. IEEE Nanotechnology Magazine, 2009, 3, 14-20.	0.9	5
310	Ion-Conducting Nanocrystals: Theory, Methods, and Applications. , 0, , 79-132.		5
311	Capacity Fading Mechanism in All Solidâ€State Lithium Polymer Secondary Batteries Using PEGâ€Borate/Aluminate Ester as Plasticizer for Polymer Electrolytes. Advanced Functional Materials, 2009, 19, 918-925.	7.8	77
312	Reversible and Highâ€Capacity Nanostructured Electrode Materials for Liâ€Ion Batteries. Advanced Functional Materials, 2009, 19, 1497-1514.	7.8	458
313	Ultrathin Films of Singleâ€Walled Carbon Nanotubes for Electronics and Sensors: A Review of Fundamental and Applied Aspects. Advanced Materials, 2009, 21, 29-53.	11.1	994
314	LiFePO₄ Nanoparticles Embedded in a Nanoporous Carbon Matrix: Superior Cathode Material for Electrochemical Energyâ€Storage Devices. Advanced Materials, 2009, 21, 2710-2714.	11.1	647
315	The Role of Surface and Interface Energy on Phase Stability of Nanosized Insertion Compounds. Advanced Materials, 2009, 21, 2703-2709.	11.1	154
316	ZnO Nanostructures for Dyeâ€Sensitized Solar Cells. Advanced Materials, 2009, 21, 4087-4108.	11.1	1,629
317	Research on Advanced Materials for Liâ€ion Batteries. Advanced Materials, 2009, 21, 4593-4607.	11.1	1,633

#	Article	IF	Citations
321	Investigation of the Ion Storage/Transfer Behavior in an Electrical Doubleâ€Layer Capacitor by Using Ordered Microporous Carbons as Model Materials. Chemistry - A European Journal, 2009, 15, 5355-5363.	1.7	155
322	Porous Co₃O₄ Nanosheets with Extraordinarily High Discharge Capacity for Lithium Batteries. Chemistry - A European Journal, 2009, 15, 6169-6174.	1.7	178
323	Controllable Synthesis of Mesoporous Co₃O₄ Nanostructures with Tunable Morphology for Application in Supercapacitors. Chemistry - A European Journal, 2009, 15, 5320-5326.	1.7	503
324	Dendritic Molecular Electrochromic Batteries Based on Redoxâ€Robust Metallocenes. Chemistry - A European Journal, 2009, 15, 8936-8944.	1.7	64
325	Inâ€Situ Encapsulation of Nickel Particles in Electrospun Carbon Nanofibers and the Resultant Electrochemical Performance. Chemistry - A European Journal, 2009, 15, 10718-10722.	1.7	80
326	Tailoring Disorder and Dimensionality: Strategies for Improved Solid Oxide Fuel Cell Electrolytes. ChemPhysChem, 2009, 10, 1003-1011.	1.0	50
327	Dynamic Transport in Liâ€Conductive Polymer Electrolytes Plasticized with Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 502 Td (	1.0	21
328	The Role of Nanostructure in Improving the Performance of Electrodes for Energy Storage and Conversion. European Journal of Inorganic Chemistry, 2009, 2009, 3851-3878.	1.0	142
329	Controllable Synthesis of Shuttleâ€Shaped Ceria and Its Catalytic Properties for CO Oxidation. European Journal of Inorganic Chemistry, 2009, 2009, 3883-3887.	1.0	41
330	Solid oxide fuel cell (SOFC) technical challenges and solutions from nano-aspects. International Journal of Energy Research, 2009, 33, 1126-1137.	2.2	113
331	A Half Cell Study of Performance and Degradation of Oxygen Reduction Catalysts for Application in Low Temperature Fuel Cells. Fuel Cells, 2009, 9, 201-208.	1.5	14
332	Metal Alloy Electrode Configurations For Advanced Lithium-Ion Batteries. Fuel Cells, 2009, 9, 277-283.	1.5	20
335	Synthesis and Electrode Performance of Nanostructured V₂O₅ by Using a Carbon Tubeâ€inâ€Tube as a Nanoreactor and an Efficient Mixedâ€Conducting Network. Angewandte Chemie - International Edition, 2009, 48, 210-214.	7.2	229
336	Reversible Storage of Lithium in a Rambutanâ€Like Tinâ€“Carbon Electrode. Angewandte Chemie - International Edition, 2009, 48, 1660-1663.	7.2	165
337	A Multiple Working Electrode for Electrochemical Cells: A Tool for Current Density Distribution Studies. Angewandte Chemie - International Edition, 2009, 48, 528-532.	7.2	42
338	Encapsulation of Sn@carbon Nanoparticles in Bambooâ€like Hollow Carbon Nanofibers as an Anode Material in Lithiumâ€Based Batteries. Angewandte Chemie - International Edition, 2009, 48, 6485-6489.	7.2	551
339	Cathodic Deposition of Polypyrrole Enabling the Oneâ€Step Assembly of Metalâ€“Polymer Hybrid Electrodes. Angewandte Chemie - International Edition, 2009, 48, 8331-8334.	7.2	53
340	Mechanochemical synthesis and electrochemical properties of nanostructured electrode materials for Li ion batteries. Journal of Solid State Electrochemistry, 2009, 13, 239-243.	1.2	9

#	Article	IF	Citations
341	Facile fabrication of porous NiO films for lithium-ion batteries with high reversibility and rate capability. Journal of Solid State Electrochemistry, 2009, 13, 1591-1597.	1.2	34
342	Soft matter lithium salt electrolytes: ion conduction and application to rechargeable batteries. Monatshefte FÃ¼r Chemie, 2009, 140, 1001-1010.	0.9	18
343	Nano-roughness in gold revealed from X-ray signature. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1177-1180.	0.9	15
344	High rate performance of Li[Ni1/3Co1/3Mn1/3]O2 synthesized via co-precipitation method by different precipitators. Journal of Physics and Chemistry of Solids, 2009, 70, 727-731.	1.9	12
345	All-solid-state polymer electrolyte with plastic crystal materials for rechargeable lithium-ion battery. Journal of Power Sources, 2009, 189, 775-778.	4.0	79
346	Flame co-synthesis of LiMn2O4 and carbon nanocomposites for high power batteries. Journal of Power Sources, 2009, 189, 149-154.	4.0	54
347	High rate capability pure Sn-based nano-architectured electrode assembly for rechargeable lithium batteries. Journal of Power Sources, 2009, 188, 578-582.	4.0	155
348	Sucrose-aided combustion synthesis of nanosized LiMn1.99â^'yLiyM0.01O4 (M=Al3+, Ni2+, Cr3+, Co3+,) Tj ETQq1 1 0.784314 rgBT /	4.0	66
349	Nanostructures and lithium electrochemical reactivity of lithium titanites and titanium oxides: A review. Journal of Power Sources, 2009, 192, 588-598.	4.0	804
350	Porous cobalt oxide (Co3O4) nanorods: Facile syntheses, optical property and application in lithium-ion batteries. Journal of Solid State Chemistry, 2009, 182, 3177-3182.	1.4	99
351	A novel sandwiched membrane as polymer electrolyte for application in lithium-ion battery. Journal of Membrane Science, 2009, 326, 260-264.	4.1	80
352	Macroporous polymer electrolytes based on PVDF/PEO-b-PMMA block copolymer blends for rechargeable lithium ion battery. Journal of Membrane Science, 2009, 334, 117-122.	4.1	176
353	Synthesis, chemical modification and electrochemical behaviour of layered sodium manganese dioxide. Mendeleev Communications, 2009, 19, 187-189.	0.6	8
354	Evaluation of ZnO nanorod arrays with dandelion-like morphology as negative electrodes for lithium-ion batteries. Electrochimica Acta, 2009, 54, 2851-2855.	2.6	242
355	Hydrothermal synthesis of LiMn2O4/C composite as a cathode for rechargeable lithium-ion battery with excellent rate capability. Electrochimica Acta, 2009, 54, 5363-5367.	2.6	80
356	Highly ionic conducting methacrylic-based gel-polymer electrolytes by UV-curing technique. Journal of Applied Electrochemistry, 2009, 39, 2199-2207.	1.5	41
357	Improving electrochemical performance of NiO films by electrodeposition on foam nickel substrates. Journal of Applied Electrochemistry, 2009, 39, 1597-1602.	1.5	51
358	Improved performances of mechanical-activated LiMn2O4/MWNTs cathode for aqueous rechargeable lithium batteries. Journal of Applied Electrochemistry, 2009, 39, 1943-1948.	1.5	32

#	Article	IF	Citations
359	Vinyl ethylene carbonate as an additive to ionic liquid electrolyte for lithium ion batteries. Journal of Applied Electrochemistry, 2009, 39, 2597-2603.	1.5	39
360	Structural and electrochemical properties of Nichrome anode thin films for lithium battery. Journal of Electroceramics, 2009, 23, 230-235.	0.8	4
361	Carbon film covering originated from fullerene C60 on the surface of lithium metal anode for lithium secondary batteries. Journal of Electroceramics, 2009, 23, 248-253.	0.8	25
362	The effect of acidic treatment on the lithium storage capacity of multi-walled carbon nanotubes. Journal of Materials Science: Materials in Electronics, 2009, 20, 709-712.	1.1	7
363	UV-sensitized nanomaterial semiconductor catalytic reduction of CoIII(Nâ€“N)3 3+/nm-TiO2 and Co:TiO2 formation: SEM-EDX and HRTEM analyses. Transition Metal Chemistry, 2009, 34, 915-923.	0.7	6
364	Ionic transport in P(VdF-HFP)-PEO based novel microporous polymer electrolytes. Bulletin of Materials Science, 2009, 32, 627-632.	0.8	13
365	Polymeric nanomaterials as electrolyte and electrodes in supercapacitors. Nano Research, 2009, 2, 733-739.	5.8	29
366	Hydrothermal synthesis of orthorhombic LiMnO2 nano-particles and LiMnO2 nanorods and comparison of their electrochemical performances. Nano Research, 2009, 2, 923-930.	5.8	59
367	Structure of Plastic Crystalline Succinonitrile: Highâ€Resolution in situ Powder Diffraction. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 88-93.	0.6	28
368	Nanoelectrodes: energy conversion and storage. Materials Today, 2009, 12, 20-27.	8.3	61
369	Battery materials for ultrafast charging and discharging. Nature, 2009, 458, 190-193.	13.7	3,161
370	Size-controlled stabilization of the superionic phase to room temperature in polymer-coated AgIÂnanoparticles. Nature Materials, 2009, 8, 476-480.	13.3	156
371	Nanotubular metalâ€“insulatorâ€“metal capacitor arrays for energy storage. Nature Nanotechnology, 2009, 4, 292-296.	15.6	337
372	Selective growth of ZnO nanoneedles by thermal oxidation of Zn microstructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 164, 195-199.	1.7	19
373	Effect of surface energies and nano-particle size distribution on open circuit voltage of Li-electrodes. Electrochemistry Communications, 2009, 11, 881-884.	2.3	83
374	Electrochemical and spectroelectrochemical properties of nitroxyl radical species in PTMA, an organic radical polymer. Influence of the microstructure. Electrochemistry Communications, 2009, 11, 1369-1372.	2.3	27
375	Electropolymerization of ionic liquid substituted polyphenylene as supercapacitors materials. Electrochemistry Communications, 2009, 11, 1671-1674.	2.3	15
376	UV-cured polymer electrolyte membranes for Li-cells: Improved mechanical properties by a novel cellulose reinforcement. Electrochemistry Communications, 2009, 11, 1796-1798.	2.3	40

#	Article	IF	Citations
377	An Snâ€“Fe/carbon nanocomposite as an alternative anode material for rechargeable lithium batteries. Electrochimica Acta, 2009, 54, 2699-2705.	2.6	55
378	Carbothermal synthesis, spectral and magnetic characterization and Li-cyclability of the Mo-cluster compounds, LiYMo3O8 and Mn2Mo3O8. Electrochimica Acta, 2009, 54, 3360-3373.	2.6	82
379	Electrochemical behaviour of propane-fed solid oxide fuel cells based on low Ni content anode catalysts. Electrochimica Acta, 2009, 54, 5280-5285.	2.6	23
380	Modeling fractal electrodes for Li-ion batteries. Electrochimica Acta, 2009, 54, 5928-5936.	2.6	20
381	A mechano- and electrochemically controlled SnSb/C nanocomposite for rechargeable Li-ion batteries. Electrochimica Acta, 2009, 54, 6367-6373.	2.6	92
382	Carbon nanotube capsules encapsulating SnO2 nanoparticles as an anode material for lithium ion batteries. Electrochimica Acta, 2009, 55, 521-527.	2.6	58
383	A polyethylene-glycol-functionalized ring-like isopolymolybdate cluster. Inorganica Chimica Acta, 2009, 362, 2413-2417.	1.2	7
384	Preparation and characterization of nano-sized Ptâ€“Pd/C catalysts and comparison of their electro-activity toward methanol and ethanol oxidation. International Journal of Hydrogen Energy, 2009, 34, 4312-4320.	3.8	170
385	Tailoring nanostructured TiO2 for high power Li-ion batteries. Journal of Power Sources, 2009, 189, 869-874.	4.0	23
386	CO tolerant PtRuâ€“MoOx nanoparticles supported on carbon nanofibers for direct methanol fuel cells. Journal of Power Sources, 2009, 186, 299-304.	4.0	55
387	Electrostatic spray deposition of porous Fe2O3 thin films as anode material with improved electrochemical performance for lithiumâ€“ion batteries. Journal of Power Sources, 2009, 193, 846-850.	4.0	82
388	Influence of synthesis conditions on electrochemical properties of high-voltage Li1.02Ni0.5Mn1.5O4 spinel cathode material. Journal of Power Sources, 2009, 193, 828-833.	4.0	85
389	Fabrication of single-walled carbon nanotube/tin nanoparticle composites by electrochemical reduction combined with vacuum filtration and hybrid co-filtration for high-performance lithium battery electrodes. Journal of Power Sources, 2009, 194, 520-525.	4.0	39
390	Electrochemical evaluation of rutile TiO2 nanoparticles as negative electrode for Li-ion batteries. Journal of Power Sources, 2009, 194, 1099-1104.	4.0	124
391	Electrochemical investigation of a propane-fed solid oxide fuel cell based on a composite Niâ€“perovskite anode catalyst. Applied Catalysis B: Environmental, 2009, 89, 49-57.	10.8	38
392	Synthesis of CoC2O4Â·2H2O nanorods and their thermal decomposition to Co3O4 nanoparticles. Chemical Physics Letters, 2009, 476, 78-83.	1.2	76
393	Electrodeposition and electrochemical properties of novel ternary tinâ€“cobaltâ€“phosphorus alloy electrodes for lithium-ion batteries. Electrochemistry Communications, 2009, 11, 6-9.	2.3	32
394	SnO2 meso-scale tubes: One-step, room temperature electrodeposition synthesis and kinetic investigation for lithium storage. Electrochemistry Communications, 2009, 11, 242-246.	2.3	56

#	Article	IF	Citations
395	One-dimensional MoO2 nanorods for supercapacitor applications. Electrochemistry Communications, 2009, 11, 572-575.	2.3	186
396	Nano-sized lithium manganese oxide dispersed on carbon nanotubes for energy storage applications. Electrochemistry Communications, 2009, 11, 1575-1578.	2.3	57
397	Goethite nanorods as anode electrode materials for rechargeable Li-ion batteries. Electrochemistry Communications, 2009, 11, 1696-1699.	2.3	48
398	Electrochemical capacitive properties of spray-pyrolyzed copper-ferrite thin films. Current Applied Physics, 2009, 9, S98-S100.	1.1	25
399	Porous carbon nanofibers from electrospun polyacrylonitrile/SiO2 composites as an energy storage material. Carbon, 2009, 47, 3346-3354.	5.4	226
400	Li₂MnSiO₄ Lithium Battery Material: Atomic-Scale Study of Defects, Lithium Mobility, and Trivalent Dopants. Chemistry of Materials, 2009, 21, 5196-5202.	3.2	160
401	Voltammetry and Redox Charge Storage Capacity of Ferrocene-Functionalized Silica Nanoparticles. Langmuir, 2009, 25, 10370-10375.	1.6	29
402	Highly Active Nitrogen-Doped Carbon Nanotubes for Oxygen Reduction Reaction in Fuel Cell Applications. Journal of Physical Chemistry C, 2009, 113, 21008-21013.	1.5	350
403	Self-Assembled TiO₂â€“Graphene Hybrid Nanostructures for Enhanced Li-Ion Insertion. ACS Nano, 2009, 3, 907-914.	7.3	1,596
404	Spinel Li₄Ti₅O₁₂ Nanotubes for Energy Storage Materials. Journal of Physical Chemistry C, 2009, 113, 18420-18423.	1.5	115
405	Supercapacitor Devices Based on Graphene Materials. Journal of Physical Chemistry C, 2009, 113, 13103-13107.	1.5	2,295
406	Superior Capacity Retention Snâ€“Niâ€“Feâ€“C Composite Anodes for Lithium-Ion Batteries. Electrochemical and Solid-State Letters, 2009, 12, A190.	2.2	12
407	Techniques of aligning carbon nanotubes. Open Physics, 2009, 7, .	0.8	26
408	Sb-MO_x-C (M = Al, Ti, or Mo) Nanocomposite Anodes for Lithium-Ion Batteries. Chemistry of Materials, 2009, 21, 3898-3904.	3.2	76
409	Electrochemical Reduction of Silver Vanadium Phosphorus Oxide, Ag₂VO₂PO₄: The Formation of Electrically Conductive Metallic Silver Nanoparticles. Chemistry of Materials, 2009, 21, 4934-4939.	3.2	78
410	SECONDARY BATTERIES â€“ LITHIUM RECHARGEABLE SYSTEMS | Electrolytes: Glass. , 2009, , 138-144.		2
411	Origin of Improved Electrochemical Activity of Î²-MnO₂ Nanorods: Effect of the Mn Valence in the Precursor on the Crystal Structure and Electrode Activity of Manganates. Journal of Physical Chemistry C, 2009, 113, 21274-21282.	1.5	28
413	Determination of Activation Energy for Li Ion Diffusion in Electrodes. Journal of Physical Chemistry B, 2009, 113, 2840-2847.	1.2	84

#	Article	IF	Citations
414	Effect of Chemical Lithium Insertion into Rutile TiO₂ Nanorods. Journal of Physical Chemistry C, 2009, 113, 14567-14574.	1.5	59
415	Synthesis, Structural Characterization, and Electronic Structure of Single-Crystalline CuxV2O5 Nanowires. Inorganic Chemistry, 2009, 48, 3145-3152.	1.9	44
416	Composition-Dependent Assembly and Magnetic Specificity of (Fe_{1â^'x}Ni_x)_{0.5}Pt_{0.5} Amorphous Nanothreads Through Substitution of Ni for Fe in an FePt System. Journal of Physical Chemistry C, 2009, 113, 19883-19890.	1.5	13
417	Effect of LiCoO[sub 2] Cathode Nanoparticle Size on High Rate Performance for Li-Ion Batteries. Journal of the Electrochemical Society, 2009, 156, A430.	1.3	124
418	Strain effect analysis on phonon thermal conductivity of two-dimensional nanocomposites. Journal of Applied Physics, 2009, 106, .	1.1	39
419	Mesoporous Anatase TiO₂ with High Surface Area and Controllable Pore Size by F^{â^'}-Ion Doping: Applications for High-Power Li-Ion Battery Anode. Journal of Physical Chemistry C, 2009, 113, 21258-21263.	1.5	113
420	Lithium intercalation into transition metal oxides: A route to generate new ordered rock salt type structure. Progress in Solid State Chemistry, 2009, 37, 262-277.	3.9	28
421	Synthesis of nanocrystalline Li4Ti5O12 by a novel aqueous combustion technique. Journal of Alloys and Compounds, 2009, 468, 258-262.	2.8	71
422	Facile synthesis of carbon-decorated single-crystalline Fe3O4 nanowires and their application as high performance anode in lithium ion batteries. Chemical Communications, 2009, , 7360.	2.2	338
423	Relationship between Electrode Performance and Chemical Bonding Nature in Mesoporous Metal Oxide-Layered Titanate Nanohybrids. Journal of Physical Chemistry C, 2009, 113, 21941-21948.	1.5	13
424	Carbon-based materials as supercapacitor electrodes. Chemical Society Reviews, 2009, 38, 2520.	18.7	6,276
425	Templated Nanocrystal-Based Porous TiO₂ Films for Next-Generation Electrochemical Capacitors. Journal of the American Chemical Society, 2009, 131, 1802-1809.	6.6	887
426	Diffusion in Confined Dimensions: Li+ Transport in Mixed Conducting TiO2â^'B Nanowires. Journal of Physical Chemistry C, 2009, 113, 4741-4744.	1.5	45
427	Carbon/ZnO Nanorod Array Electrode with Significantly Improved Lithium Storage Capability. Journal of Physical Chemistry C, 2009, 113, 5336-5339.	1.5	202
428	A reversible switch for hydrogen adsorption and desorption: electric fields. Physical Chemistry Chemical Physics, 2009, 11, 9233.	1.3	36
429	Ptâ€“Ru and Ptâ€“Mo electrodeposited onto Irâ€“IrO2 nanorods and their catalytic activities in methanol and ethanol oxidation. Journal of Materials Chemistry, 2009, 19, 1601.	6.7	31
430	Liquid state theory of the structure and phase behaviour of polymer-tethered nanoparticles in dense suspensions, melts and nanocomposites. Molecular Simulation, 2009, 35, 835-848.	0.9	28
431	Chemistry and physics of metal oxide nanostructures. Physical Chemistry Chemical Physics, 2009, 11, 3607.	1.3	26

#	Article	IF	Citations
432	Carbon nanotube arrays and their composites for electrochemical capacitors and lithium-ion batteries. Energy and Environmental Science, 2009, 2, 932.	15.6	239
433	The preparation of LiCoO₂nanoplates via a hydrothermal process and the investigation of their electrochemical behavior at high rates. Nanotechnology, 2009, 20, 115608.	1.3	27
434	Brush-Like Hierarchical ZnO Nanostructures: Synthesis, Photoluminescence and Gas Sensor Properties. Journal of Physical Chemistry C, 2009, 113, 3430-3435.	1.5	343
435	Direct growth of SnO2 nanorod array electrodes for lithium-ion batteries. Journal of Materials Chemistry, 2009, 19, 1859.	6.7	273
436	Design and synthesis of a novel nanothorn VO2(B) hollow microsphere and their application in lithium-ion batteries. Journal of Materials Chemistry, 2009, 19, 2835.	6.7	125
437	Syntheses, Characterizations, and Applications in Lithium Ion Batteries of Hierarchical SnO Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 14140-14144.	1.5	105
439	Synthesis and magnetic properties of multifunctional CoPtAu nanoparticles. Journal of Applied Physics, 2009, 105, 07B527.	1.1	3
440	Layer-by-Layer Assembly of All Carbon Nanotube Ultrathin Films for Electrochemical Applications. Journal of the American Chemical Society, 2009, 131, 671-679.	6.6	598
441	Size-Controlled Synthesis of Magnetite (Fe₃O₄) Nanoparticles Coated with Glucose and Gluconic Acid from a Single Fe(III) Precursor by a Sucrose Bifunctional Hydrothermal Method. Journal of Physical Chemistry C, 2009, 113, 16002-16008.	1.5	227
442	Extracting Renewable Energy from a Salinity Difference Using a Capacitor. Physical Review Letters, 2009, 103, 058501.	2.9	341
443	A novel hybrid supercapacitor with a carbon nanotube cathode and an iron oxide/carbon nanotube composite anode. Journal of Materials Chemistry, 2009, 19, 8755.	6.7	278
444	Double-Shelled Nanocapsules of V₂O₅-Based Composites as High-Performance Anode and Cathode Materials for Li Ion Batteries. Journal of the American Chemical Society, 2009, 131, 12086-12087.	6.6	546
445	Synthesis of Single Crystalline Spinel LiMn₂O₄ Nanowires for a Lithium Ion Battery with High Power Density. Nano Letters, 2009, 9, 1045-1051.	4.5	493
446	Thermally stable ordered mesoporous CeO2/TiO2 visible-light photocatalysts. Physical Chemistry Chemical Physics, 2009, 11, 3775.	1.3	152
447	Combination of Lightweight Elements and Nanostructured Materials for Batteries. Accounts of Chemical Research, 2009, 42, 713-723.	7.6	454
448	Synthesis of Nano-/Microsized KHCO3 Fibers via Quick Thermal Process and Its Toughness and Electron-Irradiating Degradation. Journal of Physical Chemistry C, 2009, 113, 19439-19444.	1.5	0
449	Spray deposition of steam treated and functionalized single-walled and multi-walled carbon nanotube films for supercapacitors. Nanotechnology, 2009, 20, 065605.	1.3	93
450	Engineering of Supramolecular H-Bonded Nanopolygons via Self-Assembly of Programmed Molecular Modules. Journal of the American Chemical Society, 2009, 131, 509-520.	6.6	105

#	Article	IF	Citations
451	An entirely electrochemical preparation of a nano-structured cobalt oxide electrode with superior redox activity. Nanotechnology, 2009, 20, 175602.	1.3	137
452	Remarkable Capacity Retention of Nanostructured Manganese Oxide upon Cycling as an Electrode Material for Supercapacitor. Journal of Physical Chemistry C, 2009, 113, 6303-6309.	1.5	239
453	Phase transformations in one-dimensional materials: applications in electronics and energy sciences. Journal of Materials Chemistry, 2009, 19, 5879.	6.7	10
454	ELECTRODES | Nanoelectrodes. , 2009, , 92-102.		0
455	Growth, Optical, and Electrical Properties of In₂S₃ Zigzag Nanowires. Crystal Growth and Design, 2009, 9, 427-431.	1.4	40
456	Electrochemistry of LiMn2O4 nanoparticles made by flame spray pyrolysis. Physical Chemistry Chemical Physics, 2009, 11, 3756.	1.3	40
457	Green energy storage materials: Nanostructured TiO2 and Sn-based anodes for lithium-ion batteries. Energy and Environmental Science, 2009, 2, 818.	15.6	814
458	Probing the surface-enhanced Raman scattering properties of Auâ€“Ag nanocages at two different excitation wavelengths. Physical Chemistry Chemical Physics, 2009, 11, 5903.	1.3	108
459	Non-oxidic nanoscale composites: single-crystalline titanium carbide nanocubes in hierarchical porous carbon monoliths. Physical Chemistry Chemical Physics, 2009, 11, 3300.	1.3	2
460	Flexible and transparent supercapacitor based on In2O3 nanowire/carbon nanotube heterogeneous films. Applied Physics Letters, 2009, 94, .	1.5	173
461	Control Strategy for Battery-Ultracapacitor Hybrid Energy Storage System. , 2009, , .		72
462	Organometallic chemistry: an alternative approach towards metal oxide nanoparticles. Journal of Materials Chemistry, 2009, 19, 4044.	6.7	84
463	Viable Route for Cobalt Oxideâ"Carbon Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 15533-15537.	1.5	18
464	Solid-state synthesis of perovskite-spinel nanocomposites. Journal of Materials Chemistry, 2009, 19, 4998.	6.7	26
465	Towards molecular batteries: coverage of small aminosilica nanoparticles with ferrocenyl and pentamethylferrocenyl groups and their redox properties. New Journal of Chemistry, 2009, 33, 2204.	1.4	17
466	High anion conductivity in a ternary non-equilibrium phase of BaF2 and CaF2 with mixed cations. Physical Chemistry Chemical Physics, 2009, 11, 3071.	1.3	45
467	High rate capabilities induced by multi-phasic nanodomains in iron-substituted calcium cobaltite electrodes. Journal of Materials Chemistry, 2009, 19, 1829.	6.7	20
468	Nano-(Cd1/3Co1/3Zn1/3)CO3: a new and high capacity anode material for Li-ion batteries. Journal of Materials Chemistry, 2009, 19, 5047.	6.7	52

#	Article	IF	Citations
469	Water-dispersible â€œcarbon nanopodsâ€•with controllable graphene layer orientation. Chemical Communications, 2009, , 4554.	2.2	7
470	Hollow Fe-containing carbon fibers with tubular tertiary structure: preparation and Li-storage properties. Journal of Materials Chemistry, 2009, 19, 1616.	6.7	28
471	Amorphous FeNiPt nanoparticles with tunable length for electrocatalysis and electrochemical determination of thiols. Chemical Communications, 2009, , 4530.	2.2	90
472	Colloidal Polymerization of Polymer-Coated Ferromagnetic Nanoparticles into Cobalt Oxide Nanowires. ACS Nano, 2009, 3, 3143-3157.	7.3	164
473	Hierarchically structured carbon nanocomposites as electrode materials for electrochemical energy storage, conversion and biosensor systems. Journal of Materials Chemistry, 2009, 19, 8707.	6.7	77
474	Template-free synthesis of Li[Ni_{0.25}Li_{0.15}Mn_{0.6}]O₂nanowires for high performance lithium battery cathode. Chemical Communications, 2009, , 218-220.	2.2	148
475	Efficient microwave-assisted synthesis of LiFePO4 mesocrystals with high cycling stability. Journal of Materials Chemistry, 2009, 19, 5125.	6.7	80
476	INVITED PAPER: Agrifood Nanotechnology: A Tiny Revolution in Food and Agriculture. Journal of Nano Research, 2009, 6, 1-14.	0.8	18
477	Multifunctional nanomaterials. Russian Chemical Reviews, 2009, 78, 249-282.	2.5	24
478	Coaxial MnO₂/Carbon Nanotube Array Electrodes for High-Performance Lithium Batteries. Nano Letters, 2009, 9, 1002-1006.	4.5	929
479	Electrochemical Properties of Graphene Paper Electrodes Used in Lithium Batteries. Chemistry of Materials, 2009, 21, 2604-2606.	3.2	546
480	Nanoparticulate AlO(OH)n filled polyvinylidenefluoride-co-hexafluoropropylene based microporous membranes for lithium ion batteries. Journal of Renewable and Sustainable Energy, 2009, 1, .	0.8	15
481	Ultrafast All-Polymer Paper-Based Batteries. Nano Letters, 2009, 9, 3635-3639.	4.5	422
482	Various-Shaped Uniform Mn₃O₄ Nanocrystals Synthesized at Low Temperature in Air Atmosphere. Chemistry of Materials, 2009, 21, 2272-2279.	3.2	135
483	Electrochemistry, Nanomaterials, and Nanostructures. Nanostructure Science and Technology, 2009, , 81-149.	0.1	4
484	Dissociation and Diffusion of Hydrogen on the Mg(0001) Surface: Catalytic Effect of V and Ni Double Substitution. Journal of Physical Chemistry C, 2009, 113, 10574-10579.	1.5	26
485	Hybrid Tin Oxide Nanowires as Stable and High Capacity Anodes for Li-Ion Batteries. Nano Letters, 2009, 9, 612-616.	4.5	349
486	Magnesium nanostructures for energy storage and conversion. Journal of Materials Chemistry, 2009, 19, 2877.	6.7	78

#	Article	IF	Citations
487	Transition Metal Carbides and Nitrides as Electrode Materials for Low Temperature Fuel Cells. Energies, 2009, 2, 873-899.	1.6	372
488	Structural and mechanistic inferences in the mechanochemical synthesis of nanostructured Ni-Sn and Co- Sn alloys. Journal of Physics: Conference Series, 2009, 144, 012025.	0.3	3
489	Mesoscale Radical Polymers: Bottom-Up Fabrication of Electrodes in Organic Polymer Batteries. , 0, , 319-332.		3
490	Materials for electrochemical capacitors. , 2009, , 320-329.		205
491	Room-temperature Synthesis of Monodispersed SnO2 Nanoparticles by Liquid Phase Deposition. Chemistry Letters, 2009, 38, 974-975.	0.7	8
492	HOTPLATE TECHNIQUE FOR NANOMATERIALS. , 2009, , 149-169.		1
493	Materials for electrochemical capacitors. , 2010, , 138-147.		25
494	Preparation and Characterization of Nanocomposite Calcium Doped Ceria Electrolyte With Alkali Carbonates (NK-CDC) for SOFC. , 2010, , .		0
496	The influence of the cations of salts on the electrochemical stability of a solid polymer electrolyte based on segmented poly(ether urethane). Physica Scripta, 2010, T139, 014035.	1.2	6
497	Mesoporous TiO2 with high packing density for superior lithium storage. Energy and Environmental Science, 2010, 3, 939.	15.6	267
498	Challenges for Rechargeable Li Batteries. Chemistry of Materials, 2010, 22, 587-603.	3.2	8,933
499	Engineering of materials for solid oxide fuel cells and other energy and environmental applications. Energy and Environmental Science, 2010, 3, 1670.	15.6	65
500	Nanomaterials in the Construction Industry: A Review of Their Applications and Environmental Health and Safety Considerations. ACS Nano, 2010, 4, 3580-3590.	7.3	616
501	Li electroactivity of iron (II) tungstate nanorods. Nanotechnology, 2010, 21, 465602.	1.3	30
502	Li-alloy based anode materials for Li secondary batteries. Chemical Society Reviews, 2010, 39, 3115.	18.7	1,498
503	Ordered Nanostructures Self-Assembled from Block Copolymer Tethered Nanoparticles. ACS Nano, 2010, 4, 4979-4988.	7.3	66
504	Graphene/Polyaniline Nanofiber Composites as Supercapacitor Electrodes. Chemistry of Materials, 2010, 22, 1392-1401.	3.2	2,060
505	Charge Transfer and Nanostructure Formation During Electroless Etching of Silicon. Journal of Physical Chemistry C, 2010, 114, 22098-22105.	1.5	58

#	Article	IF	Citations
506	Direct hydrothermal synthesis of single-crystalline triangular Fe3O4 nanoprisms. CrystEngComm, 2010, 12, 2060.	1.3	68
507	Cellulose composites prepared using ionic liquids (ILs) - Blood Compatibility to Batteries. ACS Symposium Series, 2010, , 133-152.	0.5	7
508	Graphene-based materials as supercapacitor electrodes. Journal of Materials Chemistry, 2010, 20, 5983.	6.7	1,338
509	Hunting for Better Li-Based Electrode Materials via Low Temperature Inorganic Synthesis. Chemistry of Materials, 2010, 22, 724-739.	3.2	224
510	Monolithic Carbide-Derived Carbon Films for Micro-Supercapacitors. Science, 2010, 328, 480-483.	6.0	1,206
511	The preparation of conductive nano-LiFePO4/PAS and its electrochemical performance. Electrochimica Acta, 2010, 55, 1067-1071.	2.6	19
512	All solid-state lithium polymer secondary batteries using spinel Li4/3Ti5/3O4 as an active material. Electrochimica Acta, 2010, 55, 2561-2566.	2.6	10
513	Study on performance of composite polymer films doped with modified molecular sieve for lithium-ion batteries. Electrochimica Acta, 2010, 55, 5793-5797.	2.6	15
514	Submicron-sized cube-like Î±-Fe2O3 agglomerates as an anode material for Li-ion batteries. Electrochimica Acta, 2010, 55, 8521-8526.	2.6	43
515	Spray drying of TiO2 nanoparticles into redispersible granules. Powder Technology, 2010, 203, 384-388.	2.1	47
516	Facile preparation of magnetic carbonaceous nanoparticles for Pb2+ ions removal. Journal of Hazardous Materials, 2010, 183, 853-858.	6.5	58
517	Molecular interaction and ionic conductivity of polyethylene oxideâ€“ nanocomposites. Journal of Physics and Chemistry of Solids, 2010, 71, 329-335.	1.9	35
518	Capacitance of porous carbon electrode in mixed salt non-aqueous electrolytes. Journal of Power Sources, 2010, 195, 1761-1764.	4.0	13
519	UV-cured polymer electrolytes encompassing hydrophobic room temperature ionic liquid for lithium batteries. Journal of Power Sources, 2010, 195, 1706-1713.	4.0	86
520	Lithium batteries: Status, prospects and future. Journal of Power Sources, 2010, 195, 2419-2430.	4.0	4,343
521	Effects of synthesis temperature and precursor composition on the crystal structure, morphology, and electrode activity of 1D nanostructured manganese oxides. Journal of Power Sources, 2010, 195, 6101-6107.	4.0	7
522	Electrochemical instability of LiV3O8 as an electrode material for aqueous rechargeable lithium batteries. Journal of Power Sources, 2010, 195, 4318-4321.	4.0	57
523	Mesoporous carbon-encapsulated NiO nanocomposite negative electrode materials for high-rate Li-ion battery. Journal of Power Sources, 2010, 195, 4977-4983.	4.0	110

#	Article	IF	Citations
524	Kirkendall-effect-based growth of dendrite-shaped CuO hollow micro/nanostructures for lithium-ion battery anodes. Journal of Solid State Chemistry, 2010, 183, 662-667.	1.4	69
525	Preparation and electrochemical performance of monodisperse Li4Ti5O12 hollow spheres. Journal of Solid State Electrochemistry, 2010, 14, 1241-1246.	1.2	46
526	Capacitive characteristics of nanocomposites of conducting polypyrrole and functionalized carbon nanotubes: effects of in situ dopant and film thickness. Journal of Solid State Electrochemistry, 2010, 14, 1565-1575.	1.2	17
527	Inkjet printing of single-walled carbon nanotube/RuO2 nanowire supercapacitors on cloth fabrics and flexible substrates. Nano Research, 2010, 3, 594-603.	5.8	397
528	LiMn2O4 microspheres: Synthesis, characterization and use as a cathode in lithium ion batteries. Nano Research, 2010, 3, 733-737.	5.8	99
529	A facile method to improve the high rate capability of Co3O4 nanowire array electrodes. Nano Research, 2010, 3, 895-901.	5.8	165
530	Electrodeposition of platinum on tourmaline and application as an electrocatalyst for oxidation of methanol. Ionics, 2010, 16, 33-38.	1.2	8
531	Preparation and electrochemical properties of nano Al0.2V2O5.3â˜Î´ cathode materials for rechargeable lithium batteries. Ionics, 2010, 16, 209-213.	1.2	4
532	Studies on chemical stability in CO2 and H2O and electrical conductivity of perovskite-type Ba3In2Zr1â˜'x Ce x O8 (xâ€‰= 0, 0.5, 1). Ionics, 2010, 16, 581-589.	1.2	0
533	Obvious Temperature Difference Along a Pb Cluster-Decorated Carbon Nanowire. Nanoscale Research Letters, 2010, 5, 138-142.	3.1	0
534	Hollow Nanostructured Anode Materials for Li-Ion Batteries. Nanoscale Research Letters, 2010, 5, 1525-1534.	3.1	177
535	Electrical properties of poly(vinyl alcohol) (PVA) based on LiFePO4 complex polymer electrolyte films. Journal of Polymer Research, 2010, 17, 143-150.	1.2	50
536	Ag nanowires and its application as electrode materials in electrochemical capacitor. Journal of Applied Electrochemistry, 2010, 40, 341-344.	1.5	36
537	Electrochemical impedance spectroscopic characterization on nano-sized Ca3Co3FeO9 electrode with enhanced capacity retention. Journal of Applied Electrochemistry, 2010, 40, 109-114.	1.5	12
538	Bioinspired peptide nanotubes as supercapacitor electrodes. Journal of Materials Science, 2010, 45, 6374-6378.	1.7	58
539	Synthesis of a low-density tantalum oxide tile-like aerogel monolithic. Journal of Sol-Gel Science and Technology, 2010, 53, 307-311.	1.1	16
540	Low temperature nanostructured lithium titanates: controlling the phase composition, crystal structure and surface area. Journal of Sol-Gel Science and Technology, 2010, 55, 19-35.	1.1	34
541	Sonochemical synthesis of nanostructured VOPO4ÂÂ·Â2H2O/carbon nanotube composites with improved lithium ion battery performance. Journal of Nanoparticle Research, 2010, 12, 417-427.	0.8	19

#	Article	IF	Citations
542	Electrical double-layer capacitor performance of nitrogen-doped ordered mesoporous carbon prepared by nanotemplating method. Research on Chemical Intermediates, 2010, 36, 703-713.	1.3	9
543	Electrochemical performance of LiFePO4 nanorods obtained from hydrothermal process. Materials Characterization, 2010, 61, 720-725.	1.9	39
544	A general synthesis and electrocatalytic activity of low-dimensional MO and Mâ€“Co (MCu, Ni, Zn and) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.0	5
545	Preparation and effects of Mg-doping on the electrochemical properties of spinel Li4Ti5O12 as anode material for lithium ion battery. Materials Chemistry and Physics, 2010, 123, 510-515.	2.0	109
546	Synthesis of ultra-long single crystalline CuV2O6 nanobelts. Materials Letters, 2010, 64, 820-823.	1.3	11
547	An easy fabrication of monodisperse oleic acid-coated Fe3O4 nanoparticles. Materials Letters, 2010, 64, 2462-2464.	1.3	73
548	Fe3O4 dendrites reduced by carbon-coatings as high reversible capacity anodes for lithium ion batteries. Solid State Sciences, 2010, 12, 2024-2029.	1.5	21
549	Doped TiO₂ and TiO₂ Nanotubes: Synthesis and Applications. ChemPhysChem, 2010, 11, 2698-2713.	1.0	352
550	A Comparative Study on the Lithiumâ€ion Storage Performances of Carbon Nanotubes and Tubeâ€inâ€Tube Carbon Nanotubes. ChemSusChem, 2010, 3, 343-349.	3.6	31
551	Nanostructured Carbon and Carbon Nanocomposites for Electrochemical Energy Storage Applications. ChemSusChem, 2010, 3, 136-168.	3.6	611
552	The Role of Chemistry in the Energy Challenge. ChemSusChem, 2010, 3, 209-222.	3.6	222
553	The Development of a New Type of Rechargeable Batteries Based on Hybrid Electrolytes. ChemSusChem, 2010, 3, 1009-1019.	3.6	88
554	Capacitors with an Equivalent Oxide Thickness of <0.5 nm for Nanoscale Electronic Semiconductor Memory. Advanced Functional Materials, 2010, 20, 2989-3003.	7.8	189
555	Quasiâ€Intercalation and Facile Amorphization in Layered ZnSb for Liâ€ion Batteries. Advanced Materials, 2010, 22, 47-52.	11.1	94
556	Samariumâ€Doped Ceria Nanowires: Novel Synthesis and Application in Lowâ€Temperature Solid Oxide Fuel Cells. Advanced Materials, 2010, 22, 1640-1644.	11.1	120
557	Ultrathin Direct Atomic Layer Deposition on Composite Electrodes for Highly Durable and Safe Liâ€ion Batteries. Advanced Materials, 2010, 22, 2172-2176.	11.1	486
558	Lowâ€Temperature Ionicâ€Liquidâ€Based Synthesis of Nanostructured Ironâ€Based Fluoride Cathodes for Lithium Batteries. Advanced Materials, 2010, 22, 3650-3654.	11.1	209
559	Crystal Habitâ€Tuned Nanoplate Material of Li[Li_{1/3â€“2x/3}Ni_xMn_{2/3â€“x/3}]O₂ for Highâ€Rate Performance Lithiumâ€ion Batteries. Advanced Materials, 2010, 22, 4364-4367.	11.1	351

#	Article	IF	Citations
560	Towards Supramolecular Engineering of Functional Nanomaterials: Preâ€Programming Multiâ€Component 2D Selfâ€Assembly at Solidâ€Liquid Interfaces. Advanced Materials, 2010, 22, 3506-3520.	11.1	276
561	Nickel Nanoconeâ€Array Supported Silicon Anode for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Materials, 2010, 22, 5378-5382.	11.1	161
563	Synthesis of Cobalt Ionâ€Based Coordination Polymer Nanowires and Their Conversion into Porous Co₃O₄ Nanowires with Good Lithium Storage Properties. Chemistry - A European Journal, 2010, 16, 5215-5221.	1.7	131
565	Nanoparticulate Functional Materials. Angewandte Chemie - International Edition, 2010, 49, 1362-1395.	7.2	631
566	Processing, Structure, and Properties of PAN/MWNT Composite Fibers. Macromolecular Materials and Engineering, 2010, 295, 742-749.	1.7	38
567	Self-supported supercapacitor membranes: Polypyrrole-coated carbon nanotube networks enabled by pulsed electrodeposition. Journal of Power Sources, 2010, 195, 674-679.	4.0	171
568	Fabrication of carbon nanofiber-driven electrodes from electrospun polyacrylonitrile/polypyrrole bicomponents for high-performance rechargeable lithium-ion batteries. Journal of Power Sources, 2010, 195, 2050-2056.	4.0	154
569	Noncovalently functionalized graphitic mesoporous carbon as a stable support of Pt nanoparticles for oxygen reduction. Journal of Power Sources, 2010, 195, 1805-1811.	4.0	78
570	An enhanced microfluidic control system for improving power density of a hydride-based micro fuel cell. Journal of Power Sources, 2010, 195, 1866-1871.	4.0	18
571	Bilayered nanofilm of polypyrrole and poly(DMcT) for high-performance battery cathodes. Journal of Power Sources, 2010, 195, 2924-2927.	4.0	31
572	Synergistic enhancement of supercapacitance upon integration of nickel (II) octa [(3,5-biscarboxylate)-phenoxy] phthalocyanine with SWCNT-phenylamine. Journal of Power Sources, 2010, 195, 3841-3848.	4.0	50
573	Flexible supercapacitor based on polyaniline nanowires/carbon cloth with both high gravimetric and area-normalized capacitance. Journal of Power Sources, 2010, 195, 4418-4422.	4.0	312
574	Improvement of electrochemical behavior of Sn2Fe/C nanocomposite anode with Al2O3 addition for lithium-ion batteries. Journal of Power Sources, 2010, 195, 5044-5048.	4.0	22
575	Bubble assisted synthesis of Snâ€“Sbâ€“Cu alloy hollow nanostructures and their improved lithium storage properties. Journal of Power Sources, 2010, 195, 6811-6816.	4.0	42
576	Physical and electrochemical properties of LiMnPO4/C composite cathode prepared with different conductive carbons. Journal of Power Sources, 2010, 195, 7445-7451.	4.0	148
577	Local structure of ball-milled LaNi5 hydrogen storage material by Ni K-edge EXAFS. Journal of Solid State Chemistry, 2010, 183, 1550-1554.	1.4	12
578	One-dimensional organicâ€“inorganic hybrid nanomaterials. Polymer, 2010, 51, 4015-4036.	1.8	121
579	Large atomic disorder in nanostructured LaNi5 alloys: A La L3-edge extended X-ray absorption fine structure study. Journal of Physics and Chemistry of Solids, 2010, 71, 1069-1072.	1.9	13

#	Article	IF	Citations
580	Thermal stability study of SDC/Na2CO3 nanocomposite electrolyte for low-temperature SOFCs. International Journal of Hydrogen Energy, 2010, 35, 2580-2585.	3.8	71
581	Enhanced electrochemical hydrogen storage capacity of activated mesoporous carbon materials containing nickel inclusions. International Journal of Hydrogen Energy, 2010, 35, 12410-12420.	3.8	21
582	Low-temperature growth of vertically aligned In2O3 nanoblades with improved lithium storage properties. Electrochemistry Communications, 2010, 12, 784-787.	2.3	31
583	High power LiCoO2 cathode materials with ultra energy density for Li-ion cells. Electrochemistry Communications, 2010, 12, 992-995.	2.3	56
584	Solid-state electrochromic devices using pTMC/PEO blends as polymer electrolytes. Electrochimica Acta, 2010, 55, 1495-1502.	2.6	47
585	UV-curable siloxane-acrylate gel-copolymer electrolytes for lithium-based battery applications. Electrochimica Acta, 2010, 55, 1460-1467.	2.6	70
586	Formation and electrochemical performance of copper/carbon composite nanofibers. Electrochimica Acta, 2010, 55, 1605-1611.	2.6	55
587	Hematite nanoflakes as anode electrode materials for rechargeable lithium-ion batteries. Electrochimica Acta, 2010, 55, 3089-3092.	2.6	55
588	Carbon nanotube array anodes for high-rate Li-ion batteries. Electrochimica Acta, 2010, 55, 2873-2877.	2.6	47
589	The effect of diluting ruthenium by iron in RuxSey catalyst for oxygen reduction. Electrochimica Acta, 2010, 55, 7575-7580.	2.6	20
590	The preparation of nano-sulfur/MWCNTs and its electrochemical performance. Electrochimica Acta, 2010, 55, 8062-8066.	2.6	156
591	Improved capacitive behavior of electrochemically synthesized Mn oxide/PEDOT electrodes utilized as electrochemical capacitors. Electrochimica Acta, 2010, 55, 4014-4024.	2.6	98
592	High capacity three-dimensional ordered macroporous CoFe2O4 as anode material for lithium ion batteries. Electrochimica Acta, 2010, 55, 4594-4598.	2.6	185
593	Solvent-assisted molten salt process: A new route to synthesise Î±-Fe2O3/C nanocomposite and its electrochemical performance in lithium-ion batteries. Electrochimica Acta, 2010, 55, 5006-5013.	2.6	107
594	Graphene as a conductive additive to enhance the high-rate capabilities of electrospun Li4Ti5O12 for lithium-ion batteries. Electrochimica Acta, 2010, 55, 5813-5818.	2.6	234
595	An optimized Ni doped LiFePO4/C nanocomposite with excellent rate performance. Electrochimica Acta, 2010, 55, 5886-5890.	2.6	89
596	Nanorod-assembled spinel Li1.05Mn1.95O4 rods with a central tunnel along the rod-axis for high rate capability of rechargeable lithium-ion batteries. Electrochimica Acta, 2010, 55, 8888-8893.	2.6	5
597	Electrochemical study of lithium insertion into carbon-rich polymer-derived silicon carbonitride ceramics. Electrochimica Acta, 2010, 56, 174-182.	2.6	58

#	Article	IF	Citations
598	Structural and electrochemical characterization of Î±-MoO3 nanorod-based electrochemical energy storage devices. Electrochimica Acta, 2010, 56, 376-380.	2.6	135
599	Synthesis and electrical properties of the (PVA)0.7(KI)0.3Â·xH2SO4 (0 â‰¤xâ‰¤ 5) polymer electrolytes and their performance in a primary Zn/MnO2 battery. Electrochimica Acta, 2010, 56, 649-656.	2.6	34
600	Problems and perspectives in nanostructured carbon-based electrodes for clean and sustainable energy. Catalysis Today, 2010, 150, 151-162.	2.2	88
601	Wool keratin-stabilized silver nanoparticles. Bioresource Technology, 2010, 101, 4703-4707.	4.8	34
602	Ordered mesoporous carbide derived carbons for high pressure gas storage. Carbon, 2010, 48, 1707-1717.	5.4	115
603	Nitrogen doped carbon nanotubes and their impact on the oxygen reduction reaction in fuel cells. Carbon, 2010, 48, 3057-3065.	5.4	347
604	Li-ion batteries from LiFePO4 cathode and anatase/graphene composite anode for stationary energy storage. Electrochemistry Communications, 2010, 12, 378-381.	2.3	145
605	Mesoporous germanium as anode material of high capacity and good cycling prepared by a mechanochemical reaction. Electrochemistry Communications, 2010, 12, 418-421.	2.3	123
606	Hybrid polymeric electrolyte based on methylalumoxane. Matrix formation reaction. Electrochimica Acta, 2010, 55, 1338-1346.	2.6	5
607	Synthesis of spinel LiMn2O4 with manganese carbonate prepared by micro-emulsion method. Electrochimica Acta, 2010, 55, 1733-1739.	2.6	31
608	One-step synthesis and improved electrochemical performance of Li(Ni1/3Co1/3Mn1/3)O2 by a modified radiated polymer gel method. Electrochimica Acta, 2010, 55, 2306-2310.	2.6	11
609	Porous Co3O4 nanoplatelets by self-supported formation as electrode material for lithium-ion batteries. Electrochimica Acta, 2010, 55, 4805-4811.	2.6	55
610	Composite silicon film with connected silicon nanowires for lithium ion batteries. Electrochimica Acta, 2010, 56, 372-375.	2.6	13
611	Experimental setup forin situX-ray SAXS/WAXS/PDF studies of the formation and growth of nanoparticles in near- and supercritical fluids. Journal of Applied Crystallography, 2010, 43, 729-736.	1.9	132
612	Liquid-gated interface superconductivity on an atomically flat film. Nature Materials, 2010, 9, 125-128.	13.3	518
613	A 3.6â€‰V lithium-based fluorosulphate insertion positive electrode for lithium-ion batteries. Nature Materials, 2010, 9, 68-74.	13.3	527
614	Ordered mesoporous Î±-MoO3 with iso-oriented nanocrystalline walls for thin-film pseudocapacitors. Nature Materials, 2010, 9, 146-151.	13.3	2,801
615	High-performance lithium-ion anodes using a hierarchical bottom-up approach. Nature Materials, 2010, 9, 353-358.	13.3	1,844

#	Article	IF	Citations
616	High-power lithium batteries from functionalized carbon-nanotube electrodes. Nature Nanotechnology, 2010, 5, 531-537.	15.6	1,026
617	Ultrahigh-power micrometre-sized supercapacitors based on onion-like carbon. Nature Nanotechnology, 2010, 5, 651-654.	15.6	2,451
618	Towards High Performance Anodes with Fast Charge/Discharge Rate for LIB Based Electrical Vehicles. , 0, , .		0
619	Energy and power. , 0, , 51-75.		0
620	Hierarchical Bottom-Up Approach for High-Performance Si-Based Li-Ion Battery Anodes. ECS Meeting Abstracts, 2010, , .	0.0	0
621	Al/F Surface Modified Single Crystalline Spinel LiMn2O4 Nanowires/Nanorods as Cathode Material for Li-Ion Battery. ECS Meeting Abstracts, 2010, , .	0.0	0
622	Electrochemical Perforance and Synthesis of Nanostructured Lead Oxide. Modern Applied Science, 2010, 4, .	0.4	1
623	GDC-Y2O3 Oxide Based Two Phase Nanocomposite Electrolytes. , 2010, , .		0
624	Nanosized TiO[sub 2] Rutile with High Capacity and Excellent Rate Capability. Electrochemical and Solid-State Letters, 2010, 13, A91.	2.2	41
625	Functional nanoporous structures by partial sintering of nanorod assemblies. Journal Physics D: Applied Physics, 2010, 43, 455301.	1.3	8
626	Characterization of Lithium Insertion into NASICON-Type Li[sub 1+x]Ti[sub 2â^'x]Al[sub x](PO[sub) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.3	19
627	Electrodeposited Cu2Sb as anode material for 3-dimensional Li-ion microbatteries. Journal of Materials Research, 2010, 25, 1485-1491.	1.2	27
628	Synthesis and capacitive properties of carbonaceous sphere@MnO₂ rattle-type hollow structures. Journal of Materials Research, 2010, 25, 1476-1484.	1.2	21
630	Template-Assisted Growth of Tungsten Oxide Nanorods on Substrates and Their Electrochemical Properties. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	0
631	Ultra-slow Li ion dynamics in Li2C2â€"on the similarities of results from7Li spin-alignment echo NMR and impedance spectroscopy. Journal of Physics Condensed Matter, 2010, 22, 245901.	0.7	16
632	On-chip electrochemistry: A nanofabricated platform for single nanowire battery electrochemistry. , 2010, , .		0
633	A New Microstructured DSC Photoelectrode for Potential High Power Conversion Efficiency. Journal of the Chinese Chemical Society, 2010, 57, 1119-1126.	0.8	1
634	Porous lanthanide oxides via a precursor method: Morphology control through competitive interaction of lanthanide cations with oxalate anions and amino acids. Dalton Transactions, 2010, 39, 6112.	1.6	3

#	Article	IF	Citations
635	Structural defects in LiCoO2 studied by L7i nuclear magnetic relaxation. Applied Physics Letters, 2010, 96, .	1.5	6
636	Nanostructured materials for the construction of asymmetrical supercapacitors. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2010, 224, 479-503.	0.8	69
637	Flexible Energy Storage Devices Using Nanomaterials. , 2010, , 227-245.		4
638	Mechanism of Ultrafast (Dis)charging of Li Ion Batteries by Heterogeneous Doping of LiFePO4. Materials Research Society Symposia Proceedings, 2010, 1263, 20901.	0.1	0
639	Bioinspired nanostructural peptide materials for supercapacitor electrodes. Journal of Materials Research, 2010, 25, 1661-1666.	1.2	32
640	Single-Shot Preparation of Crystalline Nanoplate LiFePO[sub 4] by a Simple Polyol Route. Journal of the Electrochemical Society, 2010, 157, A824.	1.3	18
641	Low temperature growth of vanadium pentoxide nanomaterials by chemical vapour deposition using VO(acac)₂as precursor. Journal Physics D: Applied Physics, 2010, 43, 185102.	1.3	32
642	Mastering nanostructured materials through H-bonding recognitions at interfaces. Pure and Applied Chemistry, 2010, 82, 917-929.	0.9	6
643	Nanostructured electrode materials for Li-ion battery. Proceedings of SPIE, 2010, , .	0.8	0
644	Key challenges in future Li-battery research. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3227-3241.	1.6	677
645	Fabrication of Ordered NiO Coated Si Nanowire Array Films as Electrodes for a High Performance Lithium Ion Battery. ACS Applied Materials & Interfaces, 2010, 2, 3614-3618.	4.0	60
646	Facile hydrothermal synthesis of porous TiO₂nanowire electrodes with high-rate capability for Li ion batteries. Nanotechnology, 2010, 21, 255706.	1.3	68
647	Platinumâ˜'Gold Nanoparticles: A Highly Active Bifunctional Electrocatalyst for Rechargeable Lithiumâ˜'Air Batteries. Journal of the American Chemical Society, 2010, 132, 12170-12171.	6.6	1,171
648	Ni(OH)₂ Nanoplates Grown on Graphene as Advanced Electrochemical Pseudocapacitor Materials. Journal of the American Chemical Society, 2010, 132, 7472-7477.	6.6	1,865
649	Synthesis of Size-Tunable Anatase TiO₂ Nanospindles and Their Assembly into Anatase@Titanium Oxynitride/Titanium Nitrideâ˜'Graphene Nanocomposites for Rechargeable Lithium Ion Batteries with High Cycling Performance. ACS Nano, 2010, 4, 6515-6526.	7.3	262
650	An Electrochemical Impedance Spectroscopic Study of the Electronic and Ionic Transport Properties of Spinel LiMn₂O₄. Journal of Physical Chemistry C, 2010, 114, 8614-8621.	1.5	243
651	Electrodeposition for Electrochemical Energy Conversion and Storage Devices. Modern Aspects of Electrochemistry, 2010, , 117-162.	0.2	1
652	One-Step Synthesis of Carbon-Coated Tin Dioxide Nanoparticles for High Lithium Storage. Journal of Physical Chemistry C, 2010, 114, 20272-20276.	1.5	61

#	Article	IF	Citations
653	Symbiotic Coaxial Nanocables: Facile Synthesis and an Efficient and Elegant Morphological Solution to the Lithium Storage Problem. Chemistry of Materials, 2010, 22, 1908-1914.	3.2	193
654	Preparation of SnO₂-Nanocrystal/Graphene-Nanosheets Composites and Their Lithium Storage Ability. Journal of Physical Chemistry C, 2010, 114, 21770-21774.	1.5	377
655	Effects of carbon on hydrogen storage performances of hydrides. Journal of Materials Chemistry, 2010, 20, 5390.	6.7	116
656	Direct Access to Metal or Metal Oxide Nanocrystals Integrated with One-Dimensional Nanoporous Carbons for Electrochemical Energy Storage. Journal of the American Chemical Society, 2010, 132, 15030-15037.	6.6	150
657	Enhancing Heat Capacity of Colloidal Suspension Using Nanoscale Encapsulated Phase-Change Materials for Heat Transfer. ACS Applied Materials & Interfaces, 2010, 2, 1685-1691.	4.0	99
658	Multilayered Nanoarchitecture of Graphene Nanosheets and Polypyrrole Nanowires for High Performance Supercapacitor Electrodes. Chemistry of Materials, 2010, 22, 5667-5671.	3.2	640
659	Molecular Insights into the Potential and Temperature Dependences of the Differential Capacitance of a Room-Temperature Ionic Liquid at Graphite Electrodes. Journal of the American Chemical Society, 2010, 132, 14825-14833.	6.6	297
660	Conducting Polymer Nanostructures: Template Synthesis and Applications in Energy Storage. International Journal of Molecular Sciences, 2010, 11, 2636-2657.	1.8	309
661	Electron Paramagnetic Resonance, X-ray Diffraction, MÃ¶ssbauer Spectroscopy, and Electrochemical Studies on Nanocrystalline FeSn₂ Obtained by Reduction of Salts in Tetraethylene Glycol. Chemistry of Materials, 2010, 22, 2268-2275.	3.2	31
662	A porous LiFePO4 and carbon nanotube composite. Chemical Communications, 2010, 46, 7151.	2.2	195
663	Nano active materials for lithium-ion batteries. Nanoscale, 2010, 2, 1294.	2.8	492
664	Conducting polymernanowire arrays with enhanced electrochemical performance. Journal of Materials Chemistry, 2010, 20, 1117-1121.	6.7	189
665	Nano-architectured Co(OH)2 electrodes constructed using an easily-manipulated electrochemical protocol for high-performance energy storage applications. Journal of Materials Chemistry, 2010, 20, 3729.	6.7	228
666	Engineering nanostructured electrodes and fabrication of film electrodes for efficient lithium ion intercalation. Energy and Environmental Science, 2010, 3, 1218.	15.6	244
667	Facile scalable synthesis of magnetitenanocrystals embedded in carbon matrix as superior anode materials for lithium-ion batteries. Chemical Communications, 2010, 46, 118-120.	2.2	192
668	Multineedle TiO₂ Nanostructures, Self-Assembled Surface Coatings, and Their Novel Properties. Crystal Growth and Design, 2010, 10, 913-922.	1.4	56
669	Large-Scale Porous Hematite Nanorod Arrays: Direct Growth on Titanium Foil and Reversible Lithium Storage. Journal of Physical Chemistry C, 2010, 114, 21158-21164.	1.5	99
670	In situ template route for synthesis of porous Ni12P5 superstructures and their applications in environmental treatments. CrystEngComm, 2010, 12, 1568.	1.3	40

#	Article	IF	Citations
671	General synthesis of carbon-coated nanostructure Li₄Ti₅O₁₂as a high rate electrode material for Li-ion intercalation. Journal of Materials Chemistry, 2010, 20, 595-602.	6.7	249
672	Preparation and Characterization of Flexible Asymmetric Supercapacitors Based on Transition-Metal-Oxide Nanowire/Single-Walled Carbon Nanotube Hybrid Thin-Film Electrodes. ACS Nano, 2010, 4, 4403-4411.	7.3	729
673	In situ analysis of LiFePO4 batteries: Signal extraction by multivariate analysis. Powder Diffraction, 2010, 25, 143-148.	0.4	40
674	Si/TiSi₂ Heteronanostructures as High-Capacity Anode Material for Li Ion Batteries. Nano Letters, 2010, 10, 860-863.	4.5	195
675	Batteries for Electric and Hybrid-Electric Vehicles. Annual Review of Chemical and Biomolecular Engineering, 2010, 1, 299-320.	3.3	229
676	Factors affecting cyclic durability of all-solid-state lithium polymer batteries using poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	15.6	125
677	Facile and controllable electrochemical reduction of graphene oxide and its applications. Journal of Materials Chemistry, 2010, 20, 743-748.	6.7	787
678	Electrochemical Behavior of Single-Walled Carbon Nanotube Supercapacitors under Compressive Stress. ACS Nano, 2010, 4, 6039-6049.	7.3	266
679	Î±-MoO₃ Nanobelts: A High Performance Cathode Material for Lithium Ion Batteries. Journal of Physical Chemistry C, 2010, 114, 21868-21872.	1.5	248
680	Solution-based synthetic strategies for one-dimensional metal-containing nanostructures. Chemical Communications, 2010, 46, 8093.	2.2	89
681	Dense coreâ€“shell structured SnO2/C composites as high performance anodes for lithium ion batteries. Chemical Communications, 2010, 46, 1437.	2.2	169
682	PAN-Encapsulated Nanocrystalline CoSn[sub 2] Particles as Negative Electrode Active Material for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2010, 157, A666.	1.3	15
683	Antimony-Coated SiC Nanoparticles as Stable and High-Capacity Anode Materials for Li-Ion Batteries. Journal of Physical Chemistry C, 2010, 114, 15196-15201.	1.5	30
684	Heat Treatment-Induced Structural Changes in SiC-Derived Carbons and their Impact on Gas Storage Potential. Journal of Physical Chemistry C, 2010, 114, 16562-16575.	1.5	18
685	Unique Lithiation and Delithiation Processes of Nanostructured Metal Silicides. ACS Nano, 2010, 4, 7014-7020.	7.3	36
686	Time-Resolved and Site-Specific Insights into Migration Pathways of Li⁺ in Î±-Li₃VF₆ by ⁶Li 2D Exchange MAS NMR. Journal of Physical Chemistry C, 2010, 114, 19083-19088.	1.5	19
687	Anomalous Conductivity Behavior of AgI-Vycor7930 Nanocomposites. Journal of Physical Chemistry C, 2010, 114, 18318-18322.	1.5	2
688	High Rate Capability of Porous LiNi[sub 1/3]Co[sub 1/3]Mn[sub 1/3]O[sub 2] Synthesized by Polymer Template Route. Journal of the Electrochemical Society, 2010, 157, A647.	1.3	44

#	Article	IF	Citations
689	Lithium Storage in Amorphous TiO[sub 2] Nanoparticles. Journal of the Electrochemical Society, 2010, 157, A582.	1.3	153
690	Polymer Nanocomposites as Solid Electrolytes: Evaluating Ionâ^'Polymer and Polymerâ^'Nanoparticle Interactions in PEG-PU/PAN Semi-IPNs and Titania Systems. Journal of Physical Chemistry C, 2010, 114, 14281-14289.	1.5	20
691	Surface Properties of Pt and PtCo Electrocatalysts and Their Influence on the Performance and Degradation of High-Temperature Polymer Electrolyte Fuel Cells. Journal of Physical Chemistry C, 2010, 114, 15823-15836.	1.5	57
692	Atomic and Electronic Structures of Li_{0.44}MnO₂ Nanowires and Li₂MnO₃ Byproducts in the Formation Process of LiMn₂O₄ Nanowires. Journal of Physical Chemistry C, 2010, 114, 18358-18365.	1.5	11
693	Hydrogenation-Induced Surface Polarity Recognition and Proton Memory Behavior at Protic-Ionic-Liquid/Oxide Electric-Double-Layer Interfaces. Journal of the American Chemical Society, 2010, 132, 6672-6678.	6.6	151
694	Recent atomistic modelling studies of energy materials: batteries included. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3255-3267.	1.6	35
695	Fuel Cell Engineering: Toward the Design of Efficient Electrochemical Power Plants. Industrial & Engineering Chemistry Research, 2010, 49, 10159-10182.	1.8	85
696	Constructing Hierarchical Spheres from Large Ultrathin Anatase TiO₂ Nanosheets with Nearly 100% Exposed (001) Facets for Fast Reversible Lithium Storage. Journal of the American Chemical Society, 2010, 132, 6124-6130.	6.6	1,215
697	Conducting Polyaniline Nanowire Arrays for High Performance Supercapacitors. Journal of Physical Chemistry C, 2010, 114, 8062-8067.	1.5	497
698	Nanostructured Pt-alloy electrocatalysts for PEM fuel cell oxygen reduction reaction. Chemical Society Reviews, 2010, 39, 2184.	18.7	1,037
699	Electrostatic and Electrochemical Nature of Liquid-Gated Electric-Double-Layer Transistors Based on Oxide Semiconductors. Journal of the American Chemical Society, 2010, 132, 18402-18407.	6.6	227
700	Pseudocapacitive Contributions to Charge Storage in Highly Ordered Mesoporous Group V Transition Metal Oxides with Iso-Oriented Layered Nanocrystalline Domains. Journal of the American Chemical Society, 2010, 132, 6982-6990.	6.6	320
701	Hybrid Supercapacitor Based on Coaxially Coated Manganese Oxide on Vertically Aligned Carbon Nanofiber Arrays. Chemistry of Materials, 2010, 22, 5022-5030.	3.2	252
702	Hydrothermal Synthesis of Nanostructured Vanadium Oxides. Materials, 2010, 3, 4175-4195.	1.3	184
703	Oxide-ion and proton conducting electrolyte materials for clean energy applications: structural and mechanistic features. Chemical Society Reviews, 2010, 39, 4370.	18.7	748
704	New Nanostructured Li₂S/Silicon Rechargeable Battery with High Specific Energy. Nano Letters, 2010, 10, 1486-1491.	4.5	612
705	Electrophoretic-deposited CNT/MnO₂composites for high-power electrochemical energy storage/conversion applications. Physica Scripta, 2010, T139, 014008.	1.2	17
706	Solution-Combustion Synthesized Nanocrystalline Li₄Ti₅O₁₂ As High-Rate Performance Li-Ion Battery Anode. Chemistry of Materials, 2010, 22, 2857-2863.	3.2	390

#	Article	IF	Citations
707	Ultrathin Spinel LiMn₂O₄ Nanowires as High Power Cathode Materials for Li-Ion Batteries. Nano Letters, 2010, 10, 3852-3856.	4.5	452
708	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>GGA</mml:mtext><mml:mo>+</mml:mo><mml:mi>U</mml:mi></mml:mrow></mml:math> of lithium intercalation into anatase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2010, 82, .	1.1	100
709	Electrocatalytic Activity Studies of Select Metal Surfaces and Implications in Li-Air Batteries. Journal of the Electrochemical Society, 2010, 157, A1016.	1.3	260
710	Preparation and Characterization of Porous PVdF-HFP/clay Nanocomposite Membranes. Journal of Materials Science and Technology, 2010, 26, 633-638.	5.6	61
711	Al Current Collectors for Li-Ion Batteries Made via a Template-Free Electrodeposition Process in Ionic Liquids. Journal of the Electrochemical Society, 2010, 157, A641.	1.3	23
712	Arrays of Sealed Silicon Nanotubes As Anodes for Lithium Ion Batteries. Nano Letters, 2010, 10, 1710-1716.	4.5	804
713	Layer-by-Layer Assembly of Charged Particles in Nonpolar Media. Langmuir, 2010, 26, 9974-9980.	1.6	36
714	Nanostructured Macromolecules. , 2010, , 1-78.		2
715	Enhanced Electric Double Layer Capacitance of Graphite Oxide Intercalated by Poly(sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 422 T	7.3	133
716	Lithium transport at silicon thin film: Barrier for high-rate capability anode. Journal of Chemical Physics, 2010, 133, 034701.	1.2	100
717	Nanostructured Electrode Materials for Lithium-Ion Batteries. Nanostructure Science and Technology, 2010, , 211-243.	0.1	0
718	Sn/SnO_x Coreâ"Shell Nanospheres: Synthesis, Anode Performance in Li Ion Batteries, and Superconductivity. Journal of Physical Chemistry C, 2010, 114, 14697-14703.	1.5	85
720	Nanomaterials for Fuel Cell Technologies. , 0, , 79-109.		2
721	MnO₂-Based Nanostructures as Catalysts for Electrochemical Oxygen Reduction in Alkaline Media. Chemistry of Materials, 2010, 22, 898-905.	3.2	679
722	Tailored Preparation Methods of TiO₂ Anatase, Rutile, Brookite: Mechanism of Formation and Electrochemical Properties. Chemistry of Materials, 2010, 22, 1173-1179.	3.2	325
723	Hierarchically Ordered Montmorillonite Block Copolymer Brushes. Macromolecules, 2010, 43, 2111-2114.	2.2	7
724	Influence of Size on the Rate of Mesoporous Electrodes for Lithium Batteries. Journal of the American Chemical Society, 2010, 132, 996-1004.	6.6	271
725	Ordered Mesoporous MFe₂O₄ (M = Co, Cu, Mg, Ni, Zn) Thin Films with Nanocrystalline Walls, Uniform 16 nm Diameter Pores and High Thermal Stability: Template-Directed Synthesis and Characterization of Redox Active Trevorite. Inorganic Chemistry, 2010, 49, 11619-11626.	1.9	73

#	Article	IF	Citations
726	Morphology Control of Nanostructures via Surface Reaction of Metal Nanodroplets. Journal of the American Chemical Society, 2010, 132, 9814-9819.	6.6	140
727	Molecular Dynamics Study of Interfacial Confinement Effects of Aqueous NaCl Brines in Nanoporous Carbon. Journal of Physical Chemistry C, 2010, 114, 20539-20546.	1.5	49
728	High-surface-area Î±-Fe2O3/carbon nanocomposite: one-step synthesis and its highly reversible and enhanced high-rate lithium storage properties. Journal of Materials Chemistry, 2010, 20, 2092.	6.7	228
729	Heterogeneous films of ordered CeO₂/Ni concentric nanostructures for fuelcell applications. Physical Chemistry Chemical Physics, 2010, 12, 4295-4300.	1.3	11
730	On the Correlation between Mechanical Flexibility, Nanoscale Structure, and Charge Storage in Periodic Mesoporous CeO₂ Thin Films. ACS Nano, 2010, 4, 967-977.	7.3	127
731	Inducing synthesis of amorphous EuFePtnanorods and their comprehensive enhancement of magnetism, thermostability and photocatalysis. Chemical Communications, 2010, 46, 219-221.	2.2	21
732	Nanoengineered Snâ€“TiCâ€“C composite anode for lithium ion batteries. Journal of Materials Chemistry, 2010, 20, 236-239.	6.7	38
733	Hydrothermal synthesis of novel Mn3O4 nano-octahedrons with enhanced supercapacitors performances. Nanoscale, 2010, 2, 2195.	2.8	184
734	Stibnite (Sb₂S₃) and its amorphous composite as dual electrodes for rechargeable lithium batteries. Journal of Materials Chemistry, 2010, 20, 1097-1102.	6.7	90
735	EPR characterisation of platinum nanoparticle functionalised carbon nanotube hybrid materials. Physical Chemistry Chemical Physics, 2010, 12, 4135.	1.3	49
736	Facile synthesis and electrochemical properties of RuO2 nanofibers with ionically conducting hydrous layer. Journal of Materials Chemistry, 2010, 20, 9172.	6.7	57
737	Direct growth of high-rate capability and high capacity copper sulfide nanowire array cathodes for lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 6638.	6.7	174
738	Characterizations and electrochemical behaviors of disproportionated SiO and its composite for rechargeable Li-ion batteries. Journal of Materials Chemistry, 2010, 20, 4854.	6.7	232
739	Mechanosynthesized nanocrystalline BaLiF3: The impact of grain boundaries and structural disorder on ionic transport. Physical Chemistry Chemical Physics, 2010, 12, 11251.	1.3	54
740	Ultrafine tin nanocrystallites encapsulated in mesoporous carbon nanowires: scalable synthesis and excellent electrochemical properties for rechargeable lithium ion batteries. Chemical Communications, 2010, 46, 8359.	2.2	57
741	Nanostructured dielectric materials. , 2010, , .		1
742	Mesoporous Anatase TiO[sub 2] Electrodes Modified by Metal Deposition: Electrochemical Characterization and High Rate Performances. Journal of the Electrochemical Society, 2010, 157, A164.	1.3	31
743	Dye-Sensitized Solar Cells Based on Nanostructured Semiconductor Oxide Ceramics with Ultra-Thin Barrier Layers. Integrated Ferroelectrics, 2010, 115, 120-131.	0.3	7

#	Article	IF	Citations
744	Hybrid MnO₂â€“disordered mesoporous carbon nanocomposites: synthesis and characterization as electrochemical pseudocapacitor electrodes. Journal of Materials Chemistry, 2010, 20, 390-398.	6.7	78
745	Synthesis and characterization of RuO2/poly(3,4-ethylenedioxythiophene) composite nanotubes for supercapacitors. Physical Chemistry Chemical Physics, 2010, 12, 4309.	1.3	122
746	Facile synthesized nanorod structured vanadium pentoxide for high-rate lithium batteries. Journal of Materials Chemistry, 2010, 20, 9193.	6.7	316
747	Hydroxylation of TiO2-B: insights from density functional calculations. Journal of Materials Chemistry, 2010, 20, 5871.	6.7	17
748	Porous structured SnSb/C nanocomposites for Li-ion battery anodes. Chemical Communications, 2011, 47, 2122-2124.	2.2	66
749	Facile syntheses and electrocatalytic properties of porous Pd and its alloy nanospheres. Journal of Materials Chemistry, 2011, 21, 9620.	6.7	62
750	Hierarchical Cu₄V_{2.15}O_{9.38}micro-/nanostructures: a lithium intercalating electrode material. Nanoscale, 2011, 3, 999-1003.	2.8	24
751	Synthesis of nanoarchitectured LiNi0.5Mn0.5O2 spheres for high-performance rechargeable lithium-ion batteries via an in situ conversion route. Journal of Materials Chemistry, 2011, 21, 10437.	6.7	34
752	Electrochemical Li-ion storage in defect spinel iron oxides: the critical role of cation vacancies. Energy and Environmental Science, 2011, 4, 1495.	15.6	80
753	Functional mesoporous carbon nanotubes and their integration in situ with metal nanocrystals for enhanced electrochemical performances. Chemical Communications, 2011, 47, 8590.	2.2	66
754	Nanostructured Film Electrodes for Efficient Li-ion Intercalations. , 2011, , .		0
755	Peapod-like nickel@mesoporous carbon core-shell nanowires: a novel electrode material for supercapacitors. RSC Advances, 2011, 1, 954.	1.7	45
756	Transition metal vanadium oxides and vanadate materials for lithium batteries. Journal of Materials Chemistry, 2011, 21, 9841.	6.7	205
757	Microwave-hydrothermal synthesis of W0.4Mo0.6O3 and carbon-decorated WOx-MoO2 nanorod anodes for lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 4082.	6.7	40
758	Synthesis of manganese oxide nanostructures using bacterial soft templates. CrystEngComm, 2011, 13, 6747.	1.3	26
759	In situ synthesis of high-loading Li₄Ti₅O₁₂â€“graphene hybrid nanostructures for high rate lithium ion batteries. Nanoscale, 2011, 3, 572-574.	2.8	181
760	Influence of LiFePO4/C interface on electrochemical properties. Journal of Materials Chemistry, 2011, 21, 14680.	6.7	16
761	Three growth modes and mechanisms for highly structure-tunable SnO2 nanotube arrays of template-directed atomic layer deposition. Journal of Materials Chemistry, 2011, 21, 12321.	6.7	46

#	Article	IF	Citations
762	One-dimensional (1D) nanostructured and nanocomposited LiFePO4: its perspective advantages for cathode materials of lithium ion batteries. Physical Chemistry Chemical Physics, 2011, 13, 19226.	1.3	35
763	Preparation and electrochemical behaviors of composite solid polymer electrolytes based on polyethylene oxide with active inorganicâ€“organic hybrid polyphosphazene nanotubes as fillers. New Journal of Chemistry, 2011, 35, 614.	1.4	19
764	Enhanced charge storage by the electrocatalytic effect of anodic TiO2 nanotubes. Nanoscale, 2011, 3, 4174.	2.8	34
765	Access to metastable complex ion conductors via mechanosynthesis: preparation, microstructure and conductivity of (Ba,Sr)LiF3 with inverse perovskite structure. Journal of Materials Chemistry, 2011, 21, 6238.	6.7	38
766	Total scattering investigation of materials for clean energy applications: The importance of the local structure. Dalton Transactions, 2011, 40, 3777.	1.6	23
767	High to ultra-high power electrical energy storage. Physical Chemistry Chemical Physics, 2011, 13, 20714.	1.3	134
768	Engineering nanostructured electrodes away from equilibrium for lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 9969.	6.7	37
769	Thin film metal hydrides for hydrogen storage applications. Journal of Materials Chemistry, 2011, 21, 4021-4026.	6.7	44
770	Nano-phase tin hollandites, K₂(M₂Sn₆)O₁₆(M = Co,) Tj ETQq0 0 0 rgBT /Overlock 1	6.7	59
771	A straightforward synthesis of carbon nanotubeâ€“perovskite composites for solid oxide fuel cells. Journal of Materials Chemistry, 2011, 21, 10273.	6.7	11
772	Self-assembled lithium manganese oxide nanoparticles on carbon nanotube or graphene as high-performance cathode material for lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 17297.	6.7	62
773	Effect of Porosity on Cycle Performance in Three-Dimensional Disk Electrode for Li Ion Battery. Japanese Journal of Applied Physics, 2011, 50, 100201.	0.8	0
774	Li self-diffusion in garnet-type Li<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Zr	1.1	177
775	Alkali Halide Interfacial Behavior in a Sequence of Charged Slit Pores. Journal of Physical Chemistry C, 2011, 115, 23610-23619.	1.5	18
776	Chemical Distribution and Bonding of Lithium in Intercalated Graphite: Identification with Optimized Electron Energy Loss Spectroscopy. ACS Nano, 2011, 5, 1190-1197.	7.3	203
777	Interfacial Synthesis: Amphiphilic Monomers Assisted Ultrarefining of Mesoporous Manganese Oxide Nanoparticles and the Electrochemical Implications. ACS Applied Materials & Interfaces, 2011, 3, 3120-3129.	4.0	44
778	Enhanced Elevated-Temperature Performance of Al-Doped Single-Crystalline LiMn₂O₄ Nanotubes as Cathodes for Lithium Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 9821-9825.	1.5	107
779	Template-Free Electrochemical Deposition of Interconnected ZnSb Nanoflakes for Li-Ion Battery Anodes. Chemistry of Materials, 2011, 23, 1032-1038.	3.2	65

#	Article	IF	Citations
780	High-Performance Li-ion Batteries and Supercapacitors Based on Prospective 1-D Nanomaterials. Nano-Micro Letters, 2011, 3, 62-71.	14.4	55
781	Structure, Size, and Morphology Control of Nanocrystalline Lithium Cobalt Oxide. Crystal Growth and Design, 2011, 11, 753-758.	1.4	24
782	From nanoparticles to nanocrystalline bulk: percolation effects in field assisted sintering of silicon nanoparticles. Nanotechnology, 2011, 22, 135601.	1.3	35
783	Edge Effect on Resistance Scaling Rules in Graphene Nanostructures. Nano Letters, 2011, 11, 1082-1086.	4.5	37
785	Porous ZnCo₂O₄ Nanowires Synthesis via Sacrificial Templates: High-Performance Anode Materials of Li-Ion Batteries. Inorganic Chemistry, 2011, 50, 3320-3324.	1.9	178
786	Template free electrochemical deposition of ZnSb nanotubes for Li ion battery anodes. Chemical Communications, 2011, 47, 9849.	2.2	35
787	Particle Size Effect of Anatase TiO[sub 2] Nanocrystals for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2011, 158, A59.	1.3	69
788	Accurate Simulations of Electric Double Layer Capacitance of Ultramicroelectrodes. Journal of Physical Chemistry C, 2011, 115, 16711-16719.	1.5	238
789	The self-assembly of porous microspheres of tin dioxide octahedral nanoparticles for high performance lithium ion battery anode materials. Journal of Materials Chemistry, 2011, 21, 10189.	6.7	85
790	In Situ CVD Synthesis of Wrinkled Scale-Like Carbon Arrays on ZnO Template and Their Use to Supercapacitors. Journal of Physical Chemistry C, 2011, 115, 25155-25159.	1.5	24
791	Controlling the Lithiation-Induced Strain and Charging Rate in Nanowire Electrodes by Coating. ACS Nano, 2011, 5, 4800-4809.	7.3	135
792	Polyoxometalate-Assisted Synthesis of TiO₂ Nanoparticles and Their Applications in Aqueous Hybrid Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2011, 3, 4315-4322.	4.0	31
793	Self-Assembled Synthesis of Hierarchical Waferlike Porous Liâ€“Vâ€“O Composites as Cathode Materials for Lithium Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 25508-25518.	1.5	60
794	Electrochemical Behavior and Magnetic Properties of Vanadium Oxide Nanotubes. Journal of Physical Chemistry C, 2011, 115, 5265-5270.	1.5	19
795	Novel Size and Surface Oxide Effects in Silicon Nanowires as Lithium Battery Anodes. Nano Letters, 2011, 11, 4018-4025.	4.5	284
796	Comparing One- and Two-Dimensional Heteronanostructures As Silicon-Based Lithium Ion Battery Anode Materials. ACS Nano, 2011, 5, 9225-9231.	7.3	72
797	Lithium fiber growth on the anode in a nanowire lithium ion battery during charging. Applied Physics Letters, 2011, 98, .	1.5	80
798	Nano-ZnCo2O4 Material Preparation by Molten Salt Method and Its Electrochemical Properties for Lithium Batteries. Journal of the Electrochemical Society, 2011, 158, A1423.	1.3	106

#	Article	IF	Citations
799	An X-ray Absorption Spectroscopy Study of the Cathodic Discharge of Ag₂VO₂PO₄: Geometric and Electronic Structure Characterization of Intermediate phases and Mechanistic Insights. Journal of Physical Chemistry C, 2011, 115, 14437-14447.	1.5	39
800	Template-free solvothermal synthesis of yolkâ€“shell V2O5 microspheres as cathode materials for Li-ion batteries. Chemical Communications, 2011, 47, 10380.	2.2	141
801	A novel Li2FeSiO4/C composite: Synthesis, characterization and high storage capacity. Journal of Materials Chemistry, 2011, 21, 9506.	6.7	150
802	Microwave-assisted gas/liquid interfacial synthesis of flowerlike NiO hollow nanosphere precursors and their application as supercapacitor electrodes. Journal of Materials Chemistry, 2011, 21, 3204.	6.7	311
803	PtRu catalysts supported on heteropolyacid and chitosan functionalized carbon nanotubes for methanol oxidation reaction of fuel cells. Physical Chemistry Chemical Physics, 2011, 13, 16349.	1.3	75
804	Supercapacitors Based on 3D Nanostructured Electrodes. , 2011, , 477-521.		0
805	Room Temperature Synthesis Routes to the 2D Nanoplates and 1D Nanowires/Nanorods of Manganese Oxides with Highly Stable Pseudocapacitance Behaviors. Journal of Physical Chemistry C, 2011, 115, 13171-13179.	1.5	62
806	Ultrafine manganese dioxidenanowire network for high-performance supercapacitors. Chemical Communications, 2011, 47, 1264-1266.	2.2	224
807	Novel template-free solvothermal synthesis of mesoporous Li4Ti5O12-C microspheres for high power lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 14414.	6.7	81
808	Molecular Simulations of the Electric Double Layer Structure, Differential Capacitance, and Charging Kinetics for N-Methyl-N-propylpyrrolidinium Bis(fluorosulfonyl)imide at Graphite Electrodes. Journal of Physical Chemistry B, 2011, 115, 3073-3084.	1.2	164
809	A superionic state in nano-porous double-layer capacitors: insights from Monte Carlo simulations. Physical Chemistry Chemical Physics, 2011, 13, 11359.	1.3	249
811	Magnesium nanocrystal-polymer composites: A new platform for designer hydrogen storage materials. Energy and Environmental Science, 2011, 4, 4882.	15.6	105
812	Better lithium-ion batteries with nanocable-like electrode materials. Energy and Environmental Science, 2011, 4, 1634.	15.6	119
813	Highâ€“rate electrochemical capacitors from highly graphitic carbonâ€“tipped manganese oxide/mesoporous carbon/manganese oxide hybrid nanowires. Energy and Environmental Science, 2011, 4, 1813.	15.6	315
814	Morphosynthesis of a hierarchical MoO2 nanoarchitecture as a binder-free anode for lithium-ion batteries. Energy and Environmental Science, 2011, 4, 2870.	15.6	245
815	Highly Reversible Lithium Storage in Bacillus subtilis-Directed Porous Co₃O₄ Nanostructures. ACS Nano, 2011, 5, 443-449.	7.3	185
816	Electrospinning: designed architectures for energy conversion and storage devices. Energy and Environmental Science, 2011, 4, 4761.	15.6	654
817	Nanostructured Reduced Graphene Oxide/Fe₂O₃ Composite As a High-Performance Anode Material for Lithium Ion Batteries. ACS Nano, 2011, 5, 3333-3338.	7.3	1,222

#	Article	IF	Citations
818	Spinel LiMn2O4/reduced graphene oxide hybrid for high rate lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 17309.	6.7	138
819	Superionic state in double-layer capacitors with nanoporous electrodes. Journal of Physics Condensed Matter, 2011, 23, 022201.	0.7	192
820	Porous LiMn2O4 as cathode material with high power and excellent cycling for aqueous rechargeable lithium batteries. Energy and Environmental Science, 2011, 4, 3985.	15.6	333
821	Hydrothermal synthesis of TiO2(B) nanowires with ultrahigh surface area and their fast charging and discharging properties in Li-ion batteries. Chemical Communications, 2011, 47, 3439.	2.2	171
822	Large-scale growth of Cu2ZnSnSe4and Cu2ZnSnSe4/Cu2ZnSnS4core/shell nanowires. Nanotechnology, 2011, 22, 265615.	1.3	24
823	Electrochemical Formation Mechanism for the Controlled Synthesis of Heterogeneous MnO₂/Poly(3,4-ethylenedioxythiophene) Nanowires. ACS Nano, 2011, 5, 5608-5619.	7.3	84
824	Polymer-derived carbon nanofiber network supported SnO2 nanocrystals: a superior lithium secondary battery material. Journal of Materials Chemistry, 2011, 21, 19302.	6.7	30
825	Ultrathin Zirconium Disulfide Nanodiscs. Journal of the American Chemical Society, 2011, 133, 7636-7639.	6.6	149
826	Double-shelled hollow microspheres of LiMn2O4 for high-performance lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 9475.	6.7	96
827	Effect of Microwave on the Nanowire Morphology, Optical, Magnetic, and Pseudocapacitance Behavior of Co₃O₄. Journal of Physical Chemistry C, 2011, 115, 25543-25556.	1.5	240
828	Nanoparticle-coated separators for lithium-ion batteries with advanced electrochemical performance. Physical Chemistry Chemical Physics, 2011, 13, 14457.	1.3	65
829	High-Performance Nanostructured Supercapacitors on a Sponge. Nano Letters, 2011, 11, 5165-5172.	4.5	670
830	Ultra-high Li storage capacity achieved by hollow carbon capsules with hierarchical nanoarchitecture. Journal of Materials Chemistry, 2011, 21, 19362.	6.7	75
831	Hierarchical protonated titanate nanostructures for lithium-ion batteries. Nanoscale, 2011, 3, 4074.	2.8	33
832	Wet chemical synthesis of Cu/TiO2 nanocomposites with integrated nano-current-collectors as high-rate anode materials in lithium-ion batteries. Physical Chemistry Chemical Physics, 2011, 13, 2014.	1.3	70
833	Nanoweb anodes composed of one-dimensional, high aspect ratio, size tunable electrospun ZnFe2O4 nanofibers for lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 14999.	6.7	210
834	Hierarchical self-assembly of ultrathin nickel hydroxide nanoflakes for high-performance supercapacitors. Journal of Materials Chemistry, 2011, 21, 3818.	6.7	430
835	High-capacity lithium insertion materials of lithium nickel manganese oxides for advanced lithium-ion batteries: toward rechargeable capacity more than 300 mA h gâˆ’1. Journal of Materials Chemistry, 2011, 21, 10179.	6.7	325

#	Article	IF	Citations
836	Anisotropic Swelling and Fracture of Silicon Nanowires during Lithiation. Nano Letters, 2011, 11, 3312-3318.	4.5	691
837	Facile Preparation and Enhanced Capacitance of the Polyaniline/Sodium Alginate Nanofiber Network for Supercapacitors. Langmuir, 2011, 27, 6458-6463.	1.6	263
838	Wolframite-type ZnWO₄ Nanorods as New Anodes for Li-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 16228-16233.	1.5	74
839	One dimensional MnO2/titanium nitride nanotube coaxial arrays for high performance electrochemical capacitive energy storage. Energy and Environmental Science, 2011, 4, 3502.	15.6	221
840	Preparation and electrochemical performance of hyper-networked Li4Ti5O12/carbon hybrid nanofiber sheets for a batteryâ€“supercapacitor hybrid system. Nanotechnology, 2011, 22, 405402.	1.3	53
841	Graphene based new energy materials. Energy and Environmental Science, 2011, 4, 1113.	15.6	1,789
842	Electrospun Carbon-Tin Oxide Composite Nanofibers for Use as Lithium Ion Battery Anodes. ACS Applied Materials & Interfaces, 2011, 3, 2534-2542.	4.0	156
843	1st-principles study of competing mechanisms of nonlinear Li diffusion in spinel Li<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>TiS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>	1.1	67
845	A high-rate long-life Li4Ti5O12/Li[Ni0.45Co0.1Mn1.45]O4 lithium-ion battery. Nature Communications, 2011, 2, 516.	5.8	327
846	Nanostructured silicon for high capacity lithium battery anodes. Energy and Environmental Science, 2011, 4, 56-72.	15.6	1,190
848	Towards understanding the effects of carbon and nitrogen-doped carbon coating on the electrochemical performance of Li4Ti5O12 in lithium ion batteries: a combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2011, 13, 15127.	1.3	169
849	Olivine LiFePO₄: development and future. Energy and Environmental Science, 2011, 4, 805-817.	15.6	314
850	Microwave-assisted solution synthesis of doped LiFePO4 with high specific charge and outstanding cycling performance. Journal of Materials Chemistry, 2011, 21, 5881.	6.7	76
851	Ionic Conductivity Enhancement of Polyethylene Oxide-LiClO₄Electrolyte by Adding Functionalized Multi-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 16688-16694.	1.5	52
852	Surfactant/Polymer Complex Templated Construction of Gold Nanowires. Journal of Dispersion Science and Technology, 2011, 32, 305-309.	1.3	1
853	In situ TEM electrochemistry of anode materials in lithium ion batteries. Energy and Environmental Science, 2011, 4, 3844.	15.6	420
854	Nanostructure design of amorphous FePO4facilitated by a virus for 3 V lithium ion battery cathodes. Journal of Materials Chemistry, 2011, 21, 1033-1039.	6.7	72
855	Design and Tailoring of a Three-Dimensional TiO₂â€“Grapheneâ€“Carbon Nanotube Nanocomposite for Fast Lithium Storage. Journal of Physical Chemistry Letters, 2011, 2, 3096-3101.	2.1	205

#	Article	IF	Citations
856	Sequential crystallization of sea urchin-like bimetallic (Ni, Co) carbonate hydroxide and its morphology conserved conversion to porous NiCo2O4 spinel for pseudocapacitors. RSC Advances, 2011, 1, 588.	1.7	289
857	Hybrid Germanium Nanoparticleâ€“Single-Wall Carbon Nanotube Free-Standing Anodes for Lithium Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 22609-22614.	1.5	107
858	Heterogeneous nanostructured electrode materials for electrochemical energy storage. Chemical Communications, 2011, 47, 1384-1404.	2.2	451
859	Toward high surface area TiO2 brookite with morphology control. Journal of Materials Chemistry, 2011, 21, 3085.	6.7	33
860	Compositional effects of PEDOT-PSS/single walled carbon nanotube films on supercapacitor device performance. Journal of Materials Chemistry, 2011, 21, 15987.	6.7	201
861	Ligand-Assisted Fabrication of Small Mesopores in Semi-Crystalline Titanium Oxide Films for High Loading of Ru(II) Dyes. Langmuir, 2011, 27, 11436-11443.	1.6	13
862	Effects of Self-Assembled Materials Prepared from V₂O₅ for Lithium Ion Electroinsertion. Langmuir, 2011, 27, 12209-12217.	1.6	14
863	Î±-Fe₂O₃ Nanorods as Anode Material for Lithium Ion Batteries. Journal of Physical Chemistry Letters, 2011, 2, 2885-2891.	2.1	306
864	Synthesis and Electrochemical Properties of Spin-Capable Carbon Nanotube Sheet/MnO_x Composites for High-Performance Energy Storage Devices. Nano Letters, 2011, 11, 2611-2617.	4.5	247
865	Hydrothermal Synthesis and Electrochemical Properties of Li₃V₂(PO₄)₃/C-Based Composites for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2011, 3, 3772-3776.	4.0	128
866	Enhanced High-Rate Performance of Li[sub 4]Ti[sub 5]O[sub 12] Nanoparticles for Rechargeable Li-Ion Batteries. Journal of the Electrochemical Society, 2011, 158, A275.	1.3	77
867	Synthesis and characterization of single-crystalline Î±-MoO3 nanofibers for enhanced Li-ion intercalation applications. CrystEngComm, 2011, 13, 927-933.	1.3	91
868	Electrospray Synthesis of Silicon/Carbon Nanoporous Microspheres as Improved Anode Materials for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 14148-14154.	1.5	177
869	Carbon Microspheres as Supercapacitors. Journal of Physical Chemistry C, 2011, 115, 20481-20486.	1.5	71
870	Nanotechnology Research Directions for Societal Needs in 2020. , 2011, , .		202
871	NANOSTRUCTURED ELECTRODE MATERIALS FOR LITHIUM BATTERIES. , 2011, , 85-126.		0
872	Nonlinear elasticity in nanostructured materials. Reports on Progress in Physics, 2011, 74, 116501.	8.1	48
873	Flexible supercapacitors based on cloth-supported electrodes of conducting polymer nanowire array/SWCNT composites. Journal of Materials Chemistry, 2011, 21, 16373.	6.7	202

#	Article	IF	Citations
874	Self-consistent electrothermal analysis of nanotube network transistors. Journal of Applied Physics, 2011, 109, 014315.	1.1	15
875	Identification of the Most Active Sites and Surface Water Species: A Comparative Study of CO and Methanol Oxidation Reactions on Coreâ˜Shell M@Pt (M = Ru, Au) Nanoparticles by in Situ IR Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 8735-8743.	1.5	32
876	Flexible solid state lithium batteries based on graphene inks. Journal of Materials Chemistry, 2011, 21, 9762.	6.7	52
877	Designed strategy to fabricate a patterned V2O5nanobelt array as a superior electrode for Li-ion batteries. Journal of Materials Chemistry, 2011, 21, 2362-2368.	6.7	92
878	Conformal Coating of Thin Polymer Electrolyte Layer on Nanostructured Electrode Materials for Three-Dimensional Battery Applications. Nano Letters, 2011, 11, 101-106.	4.5	98
879	Lab on a chip technologies for bioenergy and biosustainability research. Lab on A Chip, 2011, 11, 3389.	3.1	17
880	Kinetically limited de-lithiation behavior of nanoscale tin-covered tin oxide nanowires. Energy and Environmental Science, 2011, 4, 1695.	15.6	54
881	Ordered Large-Pore Mesoporous Li₄Ti₅O₁₂ Spinel Thin Film Electrodes with Nanocrystalline Framework for High Rate Rechargeable Lithium Batteries: Relationships among Charge Storage, Electrical Conductivity, and Nanoscale Structure. Chemistry of Materials, 2011, 23, 4384-4393.	3.2	171
882	Facile Synthesis of Pdâ€“Pt Alloy Nanocages and Their Enhanced Performance for Preferential Oxidation of CO in Excess Hydrogen. ACS Nano, 2011, 5, 8212-8222.	7.3	236
884	Dopant Modulated Li Insertion in Si for Battery Anodes: Theory and Experiment. Journal of Physical Chemistry C, 2011, 115, 18916-18921.	1.5	84
886	The role of nanomaterials in redox-based supercapacitors for next generation energy storage devices. Nanoscale, 2011, 3, 839.	2.8	778
887	Graphene Surface-Enabled Lithium Ion-Exchanging Cells: Next-Generation High-Power Energy Storage Devices. Nano Letters, 2011, 11, 3785-3791.	4.5	239
888	Building Energy Storage Device on a Single Nanowire. Nano Letters, 2011, 11, 3329-3333.	4.5	87
889	Nanocrystalline porous Î±-LiFeO₂â€“C compositeâ€”an environmentally friendly cathode for the lithium-ion battery. Energy and Environmental Science, 2011, 4, 952-957.	15.6	61
890	Interfacing electrolytes with electrodes in Li ion batteries. Journal of Materials Chemistry, 2011, 21, 9849.	6.7	327
891	Graphene-Wrapped Sulfur Particles as a Rechargeable Lithiumâ€“Sulfur Battery Cathode Material with High Capacity and Cycling Stability. Nano Letters, 2011, 11, 2644-2647.	4.5	1,973
892	Electrolytes for solid-state lithium rechargeable batteries: recent advances and perspectives. Chemical Society Reviews, 2011, 40, 2525.	18.7	1,358
893	Real-Time NMR Studies of Electrochemical Double-Layer Capacitors. Journal of the American Chemical Society, 2011, 133, 19270-19273.	6.6	145

#	Article	IF	Citations
894	Nanoconfined hydrides for energy storage. Nanoscale, 2011, 3, 2086.	2.8	262
895	Manipulation of adipic acid application on the electrochemical properties of LiFePO4 at high rate performance. Journal of Alloys and Compounds, 2011, 509, 1279-1284.	2.8	31
896	Effects of precipitator on the morphological, structural and electrochemical characteristics of Li[Ni1/3Co1/3Mn1/3]O2 prepared via carbonate coprecipitation. Journal of Alloys and Compounds, 2011, 509, 1322-1327.	2.8	42
897	Synthesis and rate performance of lithium vanadium phosphate as cathode material for Li-ion batteries. Journal of Alloys and Compounds, 2011, 509, 4765-4768.	2.8	38
898	Electrochemical fabrication of a porous nanostructured nickel hydroxide film electrode with superior pseudocapacitive performance. Journal of Alloys and Compounds, 2011, 509, 5611-5616.	2.8	112
899	Large-scale synthesis of macroporous SnO2 with/without carbon and their application as anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2011, 509, 5969-5973.	2.8	38
900	Controlled synthesis of uniform ultrafine CuO nanowires as anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2011, 509, 9798-9803.	2.8	60
901	Graphene-based electrochemical energy conversion and storage: fuel cells, supercapacitors and lithium ion batteries. Physical Chemistry Chemical Physics, 2011, 13, 15384.	1.3	488
902	Improving the Performance of Lithiumâ€“Sulfur Batteries by Conductive Polymer Coating. ACS Nano, 2011, 5, 9187-9193.	7.3	815
903	Single-crystal ZnO nanorod/amorphous and nanoporous metal oxide shell composites: Controllable electrochemical synthesis and enhanced supercapacitor performances. Energy and Environmental Science, 2011, 4, 1288.	15.6	271
904	Building one-dimensional oxide nanostructure arrays on conductive metal substrates for lithium-ion battery anodes. Nanoscale, 2011, 3, 45-58.	2.8	328
905	Electrochemical behavior of SiO anode for Li secondary batteries. Journal of Electroanalytical Chemistry, 2011, 661, 245-249.	1.9	118
906	Electrochemical characterization of in situ polypyrrole coated graphene nanocomposites. Synthetic Metals, 2011, 161, 1713-1719.	2.1	112
907	Lithium-Based Batteries for Efficient Energy Storage: Nanotechnology and Its Implications. Green Energy and Technology, 2011, , 719-759.	0.4	0
908	Facilitated Ion Transport in All-Solid-State Flexible Supercapacitors. ACS Nano, 2011, 5, 7205-7213.	7.3	458
909	Layered assembly of graphene oxide and Coâ€“Al layered double hydroxide nanosheets as electrode materials for supercapacitors. Chemical Communications, 2011, 47, 3556.	2.2	284
910	Nanostructured carbon-based electrodes: bridging the gap between thin-film lithium-ion batteries and electrochemical capacitors. Energy and Environmental Science, 2011, 4, 1972.	15.6	346
911	Mesoporous Coaxial Titanium Nitride-Vanadium Nitride Fibers of Coreâ€“shell Structures for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2011, 3, 3058-3063.	4.0	183

#	Article	IF	Citations
912	Microwave-Mediated Synthesis for Improved Morphology and Pseudocapacitance Performance of Nickel Oxide. ACS Applied Materials & Interfaces, 2011, 3, 2063-2073.	4.0	416
913	Glucose-Assisted One-Pot Synthesis of FeOOH Nanorods and Their Transformation to Fe₃O₄@Carbon Nanorods for Application in Lithium Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 9814-9820.	1.5	295
914	Heterogeneity in the Dynamics of the Ionic Liquid [BMIM⁺][PF₆^{â€“}] Confined in a Slit Nanopore. Journal of Physical Chemistry C, 2011, 115, 16544-16554.	1.5	83
915	Citric Acid- and Ammonium-Mediated Morphological Transformations of Olivine LiFePO₄ Particles. Chemistry of Materials, 2011, 23, 2848-2859.	3.2	71
916	Doped Graphene Sheets As Anode Materials with Superhigh Rate and Large Capacity for Lithium Ion Batteries. ACS Nano, 2011, 5, 5463-5471.	7.3	1,904
917	Mild and Costâ€Effective Oneâ€Pot Synthesis of Pure Singleâ€Crystalline Î²â€Ag_{0.33}V₂O₅ Nanowires for Rechargeable Liâ€ion Batteries. ChemSusChem, 2011, 4, 1091-1094.	3.6	48
918	Three-Dimensionally Arrayed and Mutually Connected 1.2-nm Nanopores for High-Performance Electric Double Layer Capacitor. Journal of the American Chemical Society, 2011, 133, 1165-1167.	6.6	260
919	Layer-by-Layer Assembled Polyaniline Nanofiber/Multiwall Carbon Nanotube Thin Film Electrodes for High-Power and High-Energy Storage Applications. ACS Nano, 2011, 5, 8552-8561.	7.3	255
920	Carbon nanocoils for multi-functional energy applications. Journal of Materials Chemistry, 2011, 21, 16103.	6.7	36
921	Prospective materials and applications for Li secondary batteries. Energy and Environmental Science, 2011, 4, 1986.	15.6	558
922	Assembly of Graphene Sheets into Hierarchical Structures for High-Performance Energy Storage. ACS Nano, 2011, 5, 3831-3838.	7.3	382
923	Ultrathin Coatings on Nano-LiCoO₂for Li-Ion Vehicular Applications. Nano Letters, 2011, 11, 414-418.	4.5	357
924	Li ion battery materials with coreâ€“shell nanostructures. Nanoscale, 2011, 3, 3967.	2.8	473
925	Lithium-ion batteries. A look into the future. Energy and Environmental Science, 2011, 4, 3287.	15.6	2,246
926	LiFePO4 Cathode Material. , 0, , .		16
927	Polymer Based Nanodielectric Composites. , 0, , .		14
928	Gas-Phase Synthesis of Nanoscale Silicon as an Economical Route towards Sustainable Energy Technology. KONA Powder and Particle Journal, 2011, 29, 191-207.	0.9	56
929	Nanofabrication of Metal Oxide Nanostructures in Aqueous Solutions. , 2011, , .		1

#	Article	IF	Citations
930	Organic Radical Battery Approaching Practical Use. Chemistry Letters, 2011, 40, 222-227.	0.7	254
931	Electric Vehicles Ã¢â‚¬â€œ The Benefits and Barriers. , 2011, , .		27
932	Design Strategy of Ion Conductive Polymers. Kobunshi Ronbunshu, 2011, 68, 595-607.	0.2	1
933	Preparation of LiNi0.5Mn1.5O4 Cathode Materials of Lithium-Ion Batteries by Drip Pyrolysis in Fluidized Bed Reactor Followed by Heat Treatment and Their Electrochemical Properties. Journal of Chemical Engineering of Japan, 2011, 44, 179-186.	0.3	3
934	The lithium intercalation process in the low-voltage lithium battery anode Li1+xV1â^'xO2. Nature Materials, 2011, 10, 223-229.	13.3	267
935	Nanoporous metal/oxide hybrid electrodes for electrochemical supercapacitors. Nature Nanotechnology, 2011, 6, 232-236.	15.6	1,914
936	Three-dimensional bicontinuous ultrafast-charge and -discharge bulk battery electrodes. Nature Nanotechnology, 2011, 6, 277-281.	15.6	1,006
937	Improved performance of polyvinylidenefluorideâ€“hexafluoropropylene based nanocomposite polymer membranes containing lithium bis(oxalato)borate by phase inversion for lithium batteries. Solid State Sciences, 2011, 13, 1047-1051.	1.5	20
938	Preparation of highly electroactive cobalt sulfide coreâ€“shell nanosheets as counter electrodes for CdZnSSe nanostructure-sensitized solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 2867-2873.	3.0	19
939	Electrochemical properties of Î±-Fe2O3 /MWCNTs as anode materials for lithium-ion batteries. Solid State Ionics, 2011, 201, 54-59.	1.3	29
940	Nanostructured electrodes for lithium-ion and lithium-air batteries: the latest developments, challenges, and perspectives. Materials Science and Engineering Reports, 2011, 72, 203-252.	14.8	467
941	Facile synthesis and electrochemical properties of Fe3O4 nanoparticles for Li ion battery anode. Journal of Power Sources, 2011, 196, 8669-8674.	4.0	72
942	Multi-parameter battery state estimator based on the adaptive and direct solution of the governing differential equations. Journal of Power Sources, 2011, 196, 8735-8741.	4.0	58
943	Microfibrillated cellulose as reinforcement for Li-ion battery polymer electrolytes with excellent mechanical stability. Journal of Power Sources, 2011, 196, 10280-10288.	4.0	109
944	Electrochemical performance of nanostructured La0.6Sr0.4CoO3â^'Î´ and Sm0.5Sr0.5CoO3â^'Î´ cathodes for IT-SOFCs. Journal of Power Sources, 2011, 196, 9276-9283.	4.0	49
945	Doubling the diffusivity measurement efficiency in solid oxide fuel cells (SOFCs) via a bi-sensor electrochemical cell. Journal of Power Sources, 2011, 196, 9985-9988.	4.0	15
946	Direct synthesis and coating of advanced nanocomposite negative electrodes for Li-ion batteries via electrospraying. Journal of Power Sources, 2011, 196, 10191-10200.	4.0	21
947	TiO2 nanorods branched on fast-synthesized large clearance TiO2 nanotube arrays for dye-sensitized solar cells. Journal of Solid State Chemistry, 2011, 184, 2936-2940.	1.4	17

#	Article	IF	Citations
948	Parametric study of the gel-combustion synthesis of nanocrystalline ZrO2-based powders. Powder Technology, 2011, 214, 218-228.	2.1	7
949	Preparation and characterization of macroporous LiNi1/3Co1/3Mn1/3O2 using carbon sphere as template. Materials Chemistry and Physics, 2011, 129, 296-300.	2.0	29
950	Improved performance for lithium-ion batteries with nickel nanocone-arrays supported germanium anode. Materials Letters, 2011, 65, 1542-1544.	1.3	12
951	Synthesis and electrochemical properties of single-crystalline LiV3O8 nanobelts for rechargeable lithium batteries. Materials Letters, 2011, 65, 2155-2157.	1.3	12
952	Li4Ti5O12/Li3SbO4/C composite anode for high rate lithium-ion batteries. Materials Letters, 2011, 65, 3083-3085.	1.3	14
953	Wetting of nanostructured germanium electrodes by polyethylene oxide. Micro and Nano Letters, 2011, 6, 448.	0.6	0
954	Synthesis and chemical properties of Y2O2S:Eu3+ nanostructures using composite-hydroxide-mediated method. Micro and Nano Letters, 2011, 6, 614.	0.6	8
955	Supercapacitor studies on globular polypyrrole microstructures developed by a facile electrochemical route. Micro and Nano Letters, 2011, 6, 1002.	0.6	7
956	Characterization of single transition metal oxide nanorods by combining atomic force microscopy and polarized micro-Raman spectroscopy. Chemical Physics Letters, 2011, 514, 128-133.	1.2	9
957	Effect of Fenton's reagent on the electrocatalytic activity of gold nanoparticles. Electrochemistry Communications, 2011, 13, 1328-1331.	2.3	8
958	Platinum-alloy nanostructured thin film catalysts for the oxygen reduction reaction. Electrochimica Acta, 2011, 56, 8695-8699.	2.6	101
959	Ultrahigh-energy and stable supercapacitors based on intertwined porous MoO3â€“MWCNT nanocomposites. Electrochimica Acta, 2011, 58, 76-80.	2.6	80
960	Improvement of electrochemical capacitor electrodes using SiO2 nanoparticles. Electrochimica Acta, 2011, 56, 10137-10144.	2.6	28
961	Influence of particle size on electrochemical performances of pyrite FeS2 for Li-ion batteries. Electrochimica Acta, 2011, 56, 9980-9985.	2.6	56
962	Synthesis of silicon/carbon, multi-core/shell microspheres using solution polymerization for a high performance Li ion battery. Electrochimica Acta, 2011, 58, 578-582.	2.6	24
963	Polarizable energy-storage membrane based on ionic condensation and decondensation. Energy and Environmental Science, 2011, 4, 3960.	15.6	7
964	Nanostructured materials for water desalination. Nanotechnology, 2011, 22, 292001.	1.3	543
965	Monodisperse Porous LiFePO₄ Microspheres for a High Power Li-Ion Battery Cathode. Journal of the American Chemical Society, 2011, 133, 2132-2135.	6.6	628

#	Article	IF	Citations
966	Electrical Energy Storage for the Grid: A Battery of Choices. Science, 2011, 334, 928-935.	6.0	11,724
967	Recent developments in nanostructured anode materials for rechargeable lithium-ion batteries. Energy and Environmental Science, 2011, 4, 2682.	15.6	2,057
968	Microfluidic etching for fabrication of flexible and all-solid-state micro supercapacitor based on MnO2 nanoparticles. Nanoscale, 2011, 3, 2703.	2.8	138
969	From Electronâ€Reservoir Complexes to Dendritic Molecular Nanobatteries. Chemistry - an Asian Journal, 2011, 6, 1679-1687.	1.7	8
970	Multi-parametric growth of silicon nanowires in a single platform by laser-induced localized heat sources. Nanotechnology, 2011, 22, 385303.	1.3	20
971	Organic tailored batteries materials using stable open-shell molecules with degenerate frontier orbitals. Nature Materials, 2011, 10, 947-951.	13.3	482
972	Hollow Carbon Nanofiber-Encapsulated Sulfur Cathodes for High Specific Capacity Rechargeable Lithium Batteries. Nano Letters, 2011, 11, 4462-4467.	4.5	1,194
973	Synthesis and Energy Release of Nitrobenzene-Functionalized Single-Walled Carbon Nanotubes. Chemistry of Materials, 2011, 23, 4557-4562.	3.2	29
974	First-Principles Theory of Electrochemical Capacitance of Nanostructured Materials: Dipole-Assisted Subsurface Intercalation of Lithium in Pseudocapacitive TiO₂ Anatase Nanosheets. Journal of Physical Chemistry C, 2011, 115, 4909-4915.	1.5	56
975	Manganese oxide-based materials as electrochemical supercapacitor electrodes. Chemical Society Reviews, 2011, 40, 1697-1721.	18.7	2,161
976	Scalable approach to multi-dimensional bulk Si anodes via metal-assisted chemical etching. Energy and Environmental Science, 2011, 4, 5013.	15.6	188
977	Novel nanocasting method for synthesis of ordered mesoporous metal oxides. Journal of Porous Materials, 2011, 18, 107-112.	1.3	4
978	Preparation of porous manganese oxide nanomaterials by one-pot synthetic solâ€“gel method. Journal of Sol-Gel Science and Technology, 2011, 58, 535-538.	1.1	17
979	New organometallic salts as precursors for the functionalization of carbon nanotubes with metallic nanoparticles. Journal of Nanoparticle Research, 2011, 13, 3643-3656.	0.8	15
980	Nano-energy research trends: bibliometrical analysis of nanotechnology research in the energy sector. Journal of Nanoparticle Research, 2011, 13, 3911-3922.	0.8	37
981	Silicon nanoparticles produced by spark discharge. Journal of Nanoparticle Research, 2011, 13, 4867-4879.	0.8	56
982	Polymeric organicâ€“inorganic proton-exchange membranes for fuel cells produced by the solâ€“gel method. Theoretical and Experimental Chemistry, 2011, 47, 67-92.	0.2	13
983	Nano-composites SnO(VO x) as anodes for lithium ion batteries. Journal of Solid State Electrochemistry, 2011, 15, 259-268.	1.2	41

#	Article	IF	Citations
984	Molding versus dispersion: effect of the preparation procedure on the capacitive and cycle life of carbon nanotubes aerogel composites. Journal of Solid State Electrochemistry, 2011, 15, 765-771.	1.2	11
985	Dependence of RuO2-capacitive properties on preparation conditions. Journal of Solid State Electrochemistry, 2011, 15, 1109-1113.	1.2	8
986	3-D mesoporous nano/micro-structured Fe3O4/C as a superior anode material for lithium-ion batteries. Journal of Solid State Electrochemistry, 2011, 15, 2563-2569.	1.2	42
987	The effect of TiO2 coating on the electrochemical performance ofÂZnO nanorod as the anode material for lithium-ion battery. Applied Physics A: Materials Science and Processing, 2011, 102, 545-550.	1.1	65
988	Self-assembly LiFePO4/polyaniline composite cathode materials with inorganic acids as dopants for lithium-ion batteries. Journal of Electroanalytical Chemistry, 2011, 660, 108-113.	1.9	62
989	A review of the electrochemical performance of alloy anodes for lithium-ion batteries. Journal of Power Sources, 2011, 196, 13-24.	4.0	1,835
990	Electrochemical insertion/deinsertion of sodium on NaV6O15 nanorods as cathode material of rechargeable sodium-based batteries. Journal of Power Sources, 2011, 196, 814-819.	4.0	135
991	Iron oxide porous nanorods with different textural properties and surface composition: Preparation, characterization and electrochemical lithium storage capabilities. Journal of Power Sources, 2011, 196, 2164-2170.	4.0	41
992	Characteristics of mechanochemically prepared hostâ€“guest hybrid nanocomposites of vanadium oxide and conducting polymers. Journal of Power Sources, 2011, 196, 3331-3341.	4.0	35
993	Synthesis of mesoporous polythiophene/MnO2 nanocomposite and its enhanced pseudocapacitive properties. Journal of Power Sources, 2011, 196, 4088-4094.	4.0	158
994	Optimization of MnO2/vertically aligned carbon nanotube composite for supercapacitor application. Journal of Power Sources, 2011, 196, 5779-5783.	4.0	137
995	X-ray absorption fine structure study of amorphous metal oxide thin films prepared by photochemical metalorganic deposition. Journal of Solid State Chemistry, 2011, 184, 1025-1035.	1.4	32
996	Synthesis and electrochemical characterization of poly(3,4-ethylenedioxythiophene) modified by iron hexacyanocobaltate. Solid State Ionics, 2011, 188, 118-123.	1.3	14
997	Electrochemical behavior of a silicon particle anode cell synthesized by an induction furnace. Electronic Materials Letters, 2011, 7, 221-224.	1.0	7
998	Hierarchical manganese oxide/carbon nanocomposites for supercapacitor electrodes. Nano Research, 2011, 4, 216-225.	5.8	102
999	Hybrid silicon-carbon nanostructured composites as superior anodes for lithium ion batteries. Nano Research, 2011, 4, 290-296.	5.8	63
1000	Advanced asymmetrical supercapacitors based on graphene hybrid materials. Nano Research, 2011, 4, 729-736.	5.8	390
1001	A facile hydrothermal preparation and photoluminescence study of ZnO micro/nanostructures on Zn foils. Science China Chemistry, 2011, 54, 1547-1551.	4.2	2

#	Article	IF	Citations
1002	Supercapacitor-battery hybrid energy storage devices from an aqueous nitroxide radical active material. Science Bulletin, 2011, 56, 2433-2436.	1.7	5
1003	A novel approach to employ Li2MnSiO4 as anode active material for lithium batteries. Ionics, 2011, 17, 3-6.	1.2	12
1004	Supercapacitive energy storage based on ionâ€conducting channels in hydrophilized organic network. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1234-1240.	2.4	5
1005	TiO₂ Anatase Nanoparticle Networks: Synthesis, Structure, and Electrochemical Performance. Small, 2011, 7, 1690-1696.	5.2	91
1006	Grapheneâ€Based Materials: Synthesis, Characterization, Properties, and Applications. Small, 2011, 7, 1876-1902.	5.2	2,239
1007	Formation Mechanisms of Uniform Nanocrystals via Hotâ€Injection and Heatâ€Up Methods. Small, 2011, 7, 2685-2702.	5.2	486
1008	Oneâ€Pot Synthesis of Nearâ€Infrared Fluorescent Gold Clusters for Cellular Fluorescence Lifetime Imaging. Small, 2011, 7, 2614-2620.	5.2	334
1009	Preparation of Novel 3D Graphene Networks for Supercapacitor Applications. Small, 2011, 7, 3163-3168.	5.2	980
1010	Nanoengineered Films via Surfaceâ€Confined Continuous Assembly of Polymers. Small, 2011, 7, 2863-2867.	5.2	43
1011	Single-Crystalline LiMn2O4 Nanotubes Synthesized Via Template-Engaged Reaction as Cathodes for High-Power Lithium Ion Batteries. Advanced Functional Materials, 2011, 21, 348-355.	7.8	327
1012	Waferâ€Level Selfâ€Organized Copolymer Templates for Nanolithography with Subâ€50 nm Feature and Spatial Resolutions. Advanced Functional Materials, 2011, 21, 1102-1112.	7.8	35
1013	Strain Anisotropies and Selfâ€Limiting Capacities in Singleâ€Crystalline 3D Silicon Microstructures: Models for High Energy Density Lithiumâ€Ion Battery Anodes. Advanced Functional Materials, 2011, 21, 2412-2422.	7.8	176
1014	Sustained Lithiumâ€Storage Performance of Hierarchical, Nanoporous Anatase TiO₂ at High Rates: Emphasis on Interfacial Storage Phenomena. Advanced Functional Materials, 2011, 21, 3464-3472.	7.8	543
1015	Fe₃O₄ Nanoparticles Confined in Mesocellular Carbon Foam for High Performance Anode Materials for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2011, 21, 2430-2438.	7.8	403
1016	High Pseudocapacitance from Ultrathin V₂O₅Films Electrodeposited on Selfâ€Standing Carbonâ€Nanofiber Paper. Advanced Functional Materials, 2011, 21, 2541-2547.	7.8	205
1017	Highly Improved Rate Capability for a Lithium-Ion Battery Nano-Li4Ti5O12 Negative Electrode via Carbon-Coated Mesoporous Uniform Pores with a Simple Self-Assembly Method. Advanced Functional Materials, 2011, 21, 4349-4357.	7.8	263
1018	Porous Li₄Ti₅O₁₂ Coated with Nâ€Doped Carbon from Ionic Liquids for Liâ€Ion Batteries. Advanced Materials, 2011, 23, 1385-1388.	11.1	742
1019	Functional Materials for Rechargeable Batteries. Advanced Materials, 2011, 23, 1695-1715.	11.1	1,419

#	Article	IF	Citations
1020	Highâ€Performance Supercapacitors Based on Intertwined CNT/V₂O₅ Nanowire Nanocomposites. Advanced Materials, 2011, 23, 791-795.	11.1	788
1021	Sandwichâ€Like, Stacked Ultrathin Titanate Nanosheets for Ultrafast Lithium Storage. Advanced Materials, 2011, 23, 998-1002.	11.1	204
1022	Ultrathin Multifunctional Oxide Coatings for Lithium Ion Batteries. Advanced Materials, 2011, 23, 3911-3915.	11.1	234
1023	Hydride Formation in Single Palladium and Magnesium Nanoparticles Studied By Nanoplasmonic Darkâ€Field Scattering Spectroscopy. Advanced Materials, 2011, 23, 4409-4414.	11.1	76
1024	Nanoimprinting by Melt Processing: An Easy Technique to Fabricate Versatile Nanostructures. Advanced Materials, 2011, 23, 4782-4787.	11.1	24
1025	Extremely Durable Highâ€Rate Capability of a LiNi_{0.4}Mn_{0.4}Co_{0.2}O₂ Cathode Enabled with Singleâ€Walled Carbon Nanotubes. Advanced Energy Materials, 2011, 1, 58-62.	10.2	74
1026	V₂O₅ Nanoâ€Electrodes with High Power and Energy Densities for Thin Film Liâ€Ion Batteries. Advanced Energy Materials, 2011, 1, 194-202.	10.2	197
1027	Highâ€Performance Supercapacitors Based on Nanocomposites of Nb₂O₅ Nanocrystals and Carbon Nanotubes. Advanced Energy Materials, 2011, 1, 1089-1093.	10.2	312
1030	Effect of Electrode Dimensionality and Morphology on the Performance of Cu2Sb Thin Film Electrodes for Lithium-Ion Batteries. European Journal of Inorganic Chemistry, 2011, 2011, 3984-3988.	1.0	9
1031	Electrochemical Analysis of Conductive Polymerâ€Coated LiFePO₄ Nanocrystalline Cathodes with Controlled Morphology. Electroanalysis, 2011, 23, 2079-2086.	1.5	40
1032	A Novel Approach to Engineer the Microstructure of Solid Oxide Fuel Cell materials. Fuel Cells, 2011, 11, 144-149.	1.5	7
1033	Material advancements in supercapacitors: From activated carbon to carbon nanotube and graphene. Canadian Journal of Chemical Engineering, 2011, 89, 1342-1357.	0.9	154
1034	Preparation of the flexible polypyrrole/polypropylene composite fibrous film for electrochemical capacitor. Journal of Applied Polymer Science, 2011, 122, 3415-3422.	1.3	22
1038	TiO₂ Nanotubes: Synthesis and Applications. Angewandte Chemie - International Edition, 2011, 50, 2904-2939.	7.2	2,752
1039	Supercapacitor Electrodes with Highâ€Energy and Power Densities Prepared from Monolithic NiO/Ni Nanocomposites. Angewandte Chemie - International Edition, 2011, 50, 6847-6850.	7.2	313
1040	Extension of The StÃ¶ber Method to the Preparation of Monodisperse Resorcinolâ€“Formaldehyde Resin Polymer and Carbon Spheres. Angewandte Chemie - International Edition, 2011, 50, 5947-5951.	7.2	745
1041	Lowâ€Temperature Synthesis of Visibleâ€Light Active Fluorine/Sulfur Coâ€doped Mesoporous TiO₂ Microspheres. Chemistry - A European Journal, 2011, 17, 1096-1100.	1.7	44
1042	Ionicâ€Liquid Synthesis Route of TiO₂(B) Nanoparticles for Functionalized Materials. Chemistry - A European Journal, 2011, 17, 775-779.	1.7	65

#	Article	IF	Citations
1043	Deepâ€Eutectic€Solventâ€Assisted Synthesis of Hierarchical Carbon Electrodes Exhibiting Capacitance Retention at High Current Densities. Chemistry - A European Journal, 2011, 17, 10533-10537.	1.7	86
1044	Thin films of carbon nanotubes and chemically reduced graphenes for electrochemical micro-capacitors. Carbon, 2011, 49, 457-467.	5.4	250
1045	Enhanced field emission of vertically oriented carbon nanosheets synthesized by C2H2/H2 plasma enhanced CVD. Carbon, 2011, 49, 2526-2531.	5.4	94
1046	Three dimensional solid-state supercapacitors from aligned single-walled carbon nanotube array templates. Carbon, 2011, 49, 4890-4897.	5.4	84
1047	Synthesis and electrochemical performance of LiV3O8/carbon nanosheet composite as cathode material for lithium-ion batteries. Composites Science and Technology, 2011, 71, 343-349.	3.8	51
1048	An enhanced stable-structure core-shell coaxial carbon nanofiber web as a direct anode material for lithium-based batteries. Electrochemistry Communications, 2011, 13, 558-561.	2.3	21
1049	Facile preparation of nanocrystalline Li4Ti5O12 and its high electrochemical performance as anode material for lithium-ion batteries. Electrochemistry Communications, 2011, 13, 654-656.	2.3	72
1050	Porous NiO/Ag composite film for electrochemical capacitor application. Electrochimica Acta, 2011, 56, 2116-2121.	2.6	49
1051	Study of Coâ€“Sn and Niâ€“Sn alloys prepared in molten chlorides and used as negative electrode in rechargeable lithium battery. Electrochimica Acta, 2011, 56, 2656-2664.	2.6	34
1052	Synthesis of FePO4Â·2H2O nanoplates and their usage for fabricating superior high-rate performance LiFePO4. Electrochimica Acta, 2011, 56, 4294-4298.	2.6	43
1053	Enhanced rate performance of nanoâ€“micro structured LiFePO4/C by improved process for high-power Li-ion batteries. Electrochimica Acta, 2011, 56, 4865-4868.	2.6	40
1054	Electrochemical reaction of lithium with CoCl2 in nonaqueous electrolyte. Electrochemistry Communications, 2011, 13, 269-271.	2.3	34
1055	Vertically aligned silicon/carbon nanotube (VASCNT) arrays: Hierarchical anodes for lithium-ion battery. Electrochemistry Communications, 2011, 13, 429-432.	2.3	94
1056	Influence of Li ions on the oxygen reduction reaction of platinum electrocatalyst. Electrochemistry Communications, 2011, 13, 646-649.	2.3	13
1057	Lithium iron phosphate/carbon nanocomposite film cathodes for high energy lithium ion batteries. Electrochimica Acta, 2011, 56, 2559-2565.	2.6	49
1058	Nickel foam-supported porous Ni(OH)2/NiOOH composite film as advanced pseudocapacitor material. Electrochimica Acta, 2011, 56, 2627-2632.	2.6	200
1059	Nanostructured Snâ€“Tiâ€“C composite anodes for lithium ion batteries. Electrochimica Acta, 2011, 56, 3029-3035.	2.6	18
1060	Electropolymerization of polyaniline on titanium oxide nanotubes for supercapacitor application. Electrochimica Acta, 2011, 56, 4462-4466.	2.6	147

#	Article	IF	Citations
1061	Electrochemical study of double-walled carbon nanotube electrode/block polyether-lithium bis(trifluorosulphonyl)imide salt polymer electrolyte interface. Electrochimica Acta, 2011, 56, 4650-4656.	2.6	5
1062	N-(triphenylphosphoranylidene) aniline as a novel electrolyte additive for high voltage LiCoO2 operations in lithium ion batteries. Electrochimica Acta, 2011, 56, 5195-5200.	2.6	66
1063	Coaxial MnO/C nanotubes as anodes for lithium-ion batteries. Electrochimica Acta, 2011, 56, 5844-5848.	2.6	129
1064	Lithium storage performance and interfacial processes of three dimensional porous Snâ€“Co alloy electrodes for lithium-ion batteries. Electrochimica Acta, 2011, 56, 5979-5987.	2.6	62
1065	A new rechargeable lithium-ion battery with a xLi2MnO3Â·(1â^'x) LiMn0.4Ni0.4Co0.2O2 cathode and a hard carbon anode. Electrochimica Acta, 2011, 56, 7392-7396.	2.6	57
1066	Investigation on a coreâ€“shell nano-structural LiFePO4/C and its interfacial CO interaction. Electrochimica Acta, 2011, 56, 6940-6944.	2.6	18
1067	Improvement of the performance for quasi-solid-state supercapacitor by using PVAâ€“KOHâ€“KI polymer gel electrolyte. Electrochimica Acta, 2011, 56, 6881-6886.	2.6	278
1068	Minuscule device for hydrogen generation/electrical energy collection system on aluminum alloy surface. International Journal of Hydrogen Energy, 2011, 36, 2855-2859.	3.8	7
1069	Modification of the properties of carbon nanocoils by different treatments in liquid phase. Microporous and Mesoporous Materials, 2011, 142, 55-61.	2.2	16
1070	Surfactant-assisted electrochemical deposition of Î±-cobalt hydroxide for supercapacitors. Journal of Power Sources, 2011, 196, 860-864.	4.0	206
1071	Copper sulfates as cathode materials for Li batteries. Journal of Power Sources, 2011, 196, 1461-1468.	4.0	8
1072	Vertically aligned carbon nanotube electrodes for lithium-ion batteries. Journal of Power Sources, 2011, 196, 1455-1460.	4.0	128
1073	Precipitated nanosized titanium dioxide for electrochemical applications. Journal of Power Sources, 2011, 196, 2221-2226.	4.0	9
1074	TiO2 rutileâ€”An alternative anode material for safe lithium-ion batteries. Journal of Power Sources, 2011, 196, 6815-6821.	4.0	111
1075	The electrochemical behavior of low-temperature synthesized FeSn2 nanoparticles as anode materials for Li-ion batteries. Journal of Power Sources, 2011, 196, 6768-6771.	4.0	25
1076	Nanosized LiMn2O4 powders prepared by flame spray pyrolysis from aqueous solution. Journal of Power Sources, 2011, 196, 2858-2862.	4.0	23
1077	A three-dimensional tin-coated nanoporous copper for lithium-ion battery anodes. Journal of Power Sources, 2011, 196, 6915-6919.	4.0	85
1078	Favorable combination of positive and negative electrode materials with glymeâ€“Li salt complex electrolytes in lithium ion batteries. Journal of Power Sources, 2011, 196, 3874-3880.	4.0	30

#	Article	IF	Citations
1079	Synthesis and rate performance of Fe3O4-based Cu nanostructured electrodes for Li ion batteries. Journal of Power Sources, 2011, 196, 4779-4784.	4.0	38
1080	Mesoporous polyaniline/TiO2 microspheres with coreâ€“shell structure as anode materials for lithium ion battery. Journal of Power Sources, 2011, 196, 4735-4740.	4.0	86
1081	Understanding the sucrose-assisted combustion method: Effects of the atmosphere and fuel amount on the synthesis and electrochemical performances of LiNi0.5Mn1.5O4 spinel. Journal of Power Sources, 2011, 196, 5951-5959.	4.0	45
1082	Graft copolymer-based lithium-ion battery for high-temperature operation. Journal of Power Sources, 2011, 196, 5604-5610.	4.0	73
1083	Nanostructured Fe2O3 and CuO composite electrodes for Li ion batteries synthesized and deposited in one step. Journal of Power Sources, 2011, 196, 6425-6432.	4.0	47
1084	Improved pseudocapacitive performance and cycle life of cobalt hydroxide on an electrochemically derived nano-porous Ni framework. Journal of Power Sources, 2011, 196, 7828-7834.	4.0	40
1085	Growth of polyaniline nanowhiskers on mesoporous carbon for supercapacitor application. Journal of Power Sources, 2011, 196, 7835-7840.	4.0	166
1086	Micron-sized, carbon-coated Li4Ti5O12 as high power anode material for advanced lithium batteries. Journal of Power Sources, 2011, 196, 7763-7766.	4.0	118
1087	A high capacity, template-electroplated Niâ€“Sn intermetallic electrode for lithium ion battery. Journal of Power Sources, 2011, 196, 7767-7770.	4.0	36
1088	Young's modulus of polycrystalline Li22Si5. Journal of Power Sources, 2011, 196, 7747-7749.	4.0	30
1089	Optimized performances of coreâ€“shell structured LiFePO4/C nanocomposite. Journal of Power Sources, 2011, 196, 7728-7735.	4.0	70
1090	Multi-level energy analysis of emerging technologies: a case study in new materials for lithium ion batteries. Journal of Cleaner Production, 2011, 19, 1405-1416.	4.6	56
1091	Physicochemical properties of NaxCoO2 as a cathode for solid state sodium battery. Solid State Ionics, 2011, 192, 360-363.	1.3	49
1092	Ion conduction and dynamics in mechanosynthesized nanocrystalline BaLiF3. Solid State Ionics, 2011, 184, 65-69.	1.3	14
1093	Simulated defect and interface engineering for high power Li electrode materials. Solid State Ionics, 2011, 184, 57-61.	1.3	54
1094	High protein-adsorption characteristics of acicular crystal assembled TiO2 films and their photoelectric effect. Thin Solid Films, 2011, 519, 5135-5138.	0.8	6
1095	Morphology of thin nanocomposite films of asymmetric diblock copolymer and magnetite nanoparticles. Journal of Physics Condensed Matter, 2011, 23, 254215.	0.7	12
1096	The effects of size and orientation on magnetic properties and exchange bias in Co3O4 mesoporous nanowires. Journal of Applied Physics, 2011, 109, .	1.1	18

#	Article	IF	Citations
1097	Oxygen Reduction Reaction Electrocatalytic Activity of Glancing Angle Deposited Platinum Nanorod Arrays. Journal of the Electrochemical Society, 2011, 158, B1029.	1.3	67
1098	Structural Transitions of Solvent-Free Oligomer-Grafted Nanoparticles. Physical Review Letters, 2011, 107, 105503.	2.9	53
1099	Al Current Collectors for Li-Ion Batteries Made via an Oxidation Process in Ionic Liquids. Electrochemical and Solid-State Letters, 2011, 14, A6.	2.2	14
1100	Interaction of ComOâ^' (m = 1â€“3) with water: Anion photoelectron spectroscopy and density functional calculations. Journal of Chemical Physics, 2011, 135, 134307.	1.2	10
1101	Rational Design of TiO₂-Based Anode Materials Using Computer Modelling. Defect and Diffusion Forum, 0, 312-315, 1085-1090.	0.4	0
1102	SPINEL Li₂MTi₃O₈(M = Mg,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 STORAGE. Functional Materials Letters, 2011, 04, 65-69.	0.7	46
1103	Towards prospective life cycle assessment: Single wall carbon nanotubes for lithium-ion batteries. , 2011, , .		18
1104	Nanostructured mesoporous materials for lithium-ion battery applications. Proceedings of SPIE, 2011, , .	0.8	3
1105	Creating Novel Transport Properties in Electric Double Layer Field Effect Transistors Based on Layered Materials. Materials Research Society Symposia Proceedings, 2011, 1288, 1.	0.1	1
1106	Green nanotechnology. Proceedings of SPIE, 2011, , .	0.8	16
1107	GDC - Y 2 O 3 Oxide Based Two Phase Nanocomposite Electrolyte. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	11
1108	A Review of Carbon Nanotube Ensembles as Flexible Electronics and Advanced Packaging Materials. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.2	27
1109	Charge Transfer Between Polyaniline and Carbon Nanotubes Supercapacitors: Improving Both Energy and Power Densities. Journal of the Electrochemical Society, 2011, 158, A1.	1.3	40
1110	EXCELLENT CYCLING PERFORMANCE OF THREE-DIMENSIONAL-ORDERED MACROPOROUS NiFe₂O₄ AS ANODE MATERIAL FOR LITHIUM ION BATTERIES. Functional Materials Letters, 2011, 04, 327-331.	0.7	4
1111	KEY MATERIALS CHALLENGES FOR ELECTROCHEMICAL ENERGY STORAGE SYSTEMS. Cosmos, 2011, 07, 11-24.	0.4	2
1112	The controlled formation of TiO<inf>2</inf> nanosheets with (001) facets. , 2011, , .		0
1113	Low-temperature synthesis and characterization of PVP-capped FeAu nanoparticles. Journal of Materials Research, 2011, 26, 2040-2049.	1.2	5
1114	Fabrication of Li-intercalated bilayer graphene. AIP Advances, 2011, 1, .	0.6	98

#	Article	IF	Citations
1115	Inorganic nanowires: a perspective about their role in energy conversion and storage applications. Journal Physics D: Applied Physics, 2011, 44, 174032.	1.3	19
1116	GISAXS View of Induced Morphological Changes in Nanostructured CeVO₄Thin Films. Journal of Nanomaterials, 2011, 2011, 1-7.	1.5	2
1117	Preparation and Characterization of Nanocomposite Calcium Doped Ceria Electrolyte With Alkali Carbonates (NK-CDC) for SOFC. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	22
1118	Sn-Ni Nano Particle Prepared by a Chemical Reduction Method. Advanced Materials Research, 0, 625, 259-262.	0.3	3
1119	Nanomaterials for Energy Conversion and Storage. Journal of Nanomaterials, 2012, 2012, 1-2.	1.5	12
1120	Chemical Engineering Process Miniaturisation for Chemical Production and Material Manufacture. HKIE Transactions, 2012, 19, 29-33.	1.9	1
1121	Green nanophotonics. Journal of Nanophotonics, 2012, 6, 061505.	0.4	1
1122	Metal- Metal Oxide Electrode: A Promising Energy Storage Candidate for Supercapacitor Application. Materials Research Society Symposia Proceedings, 2012, 1406, .	0.1	3
1123	Preparation and capacitance behaviors of cobalt oxide/graphene composites. Carbon Letters, 2012, 13, 130-132.	3.3	34
1124	Influence of nanosize and thermodynamics on lithium storage in insertion and conversion reactions. Proceedings of SPIE, 2012, , .	0.8	1
1125	Electric storage in de-alloyed Si-Al alloy ribbons. Europhysics Letters, 2012, 99, 47001.	0.7	9
1126	Investigation of the free volume and ionic conducting mechanism of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 307 T Chinese Physics B, 2012, 21, 107803.	0.7	4
1127	Study Progress of Li-Ni-Co-Mn-O System as Cathode Material for Li-Ion Battery. Advanced Materials Research, 0, 608-609, 1006-1011.	0.3	0
1128	Nanosized Spinel Li4Ti5O12Anode Material Prepared by Gel-polymer Method using Furfuryl Alcohol as Polymerizable Solvent. Chinese Journal of Chemical Physics, 2012, 25, 457-462.	0.6	2
1129	Nanofibers-NiCo2O4: Fabrication and Li-storage properties. , 2012, , .		2
1130	Beam-assisted large elongation of in situ formed Li2O nanowires. Scientific Reports, 2012, 2, 542.	1.6	34
1131	Stable lithium-ion cathodes from nanocomposites of VO₂nanowires and CNTs. Nanotechnology, 2012, 23, 475701.	1.3	15
1132	Frequency-dependent dielectric response model for polyimide-poly(vinilydenefluoride) multilayered dielectrics. Applied Physics Letters, 2012, 101, 012906.	1.5	1

#	Article	IF	Citations
1133	Increasing recoverable energy storage in electroceramic capacitors using â€œdead-layerâ€•engineering. Applied Physics Letters, 2012, 101, .	1.5	69
1134	Understanding controls on interfacial wetting at epitaxial graphene: Experiment and theory. Physical Review B, 2012, 85, .	1.1	95
1135	A Scanning Flow Cell System for Fully Automated Screening of Electrocatalyst Materials. Journal of the Electrochemical Society, 2012, 159, F670-F675.	1.3	92
1136	Atomic layer deposition for electrochemical energy generation and storage systems. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	0.9	59
1137	Nanomechanical properties of lithiated Si nanowires probed with atomic force microscopy. Journal Physics D: Applied Physics, 2012, 45, 275301.	1.3	10
1138	3D Self-Supported Nanoarchitectured Arrays Electrodes for Lithium-Ion Batteries. Journal of Nanomaterials, 2012, 2012, 1-19.	1.5	48
1139	AN EXFOLIATED VANADIUM PENTOXIDE NANOPLATELET AND ITS ELECTROCHEMICAL PROPERTIES FOR LITHIUM-ION BATTERIES. Functional Materials Letters, 2012, 05, 1250019.	0.7	9
1140	Pyro-Synthesis of Functional Nanocrystals. Scientific Reports, 2012, 2, 946.	1.6	42
1141	Electrochemical Properties of Tungsten Oxide Nanowires Compared to Bulk Particles. Japanese Journal of Applied Physics, 2012, 51, 11PE06.	0.8	2
1142	A novel two-step preparation of spinel LiMn2O4 nanowires and its electrochemical performance charaterization. Journal of Materials Research, 2012, 27, 1750-1754.	1.2	5
1143	Facile synthesis of polypyrrole nanofiber and its enhanced electrochemical performances in different electrolytes. EXPRESS Polymer Letters, 2012, 6, 965-974.	1.1	39
1144	UV-Induced Radical Photo-Polymerization: A Smart Tool for Preparing Polymer Electrolyte Membranes for Energy Storage Devices. Membranes, 2012, 2, 687-704.	1.4	13
1145	Solid-State Thin-Film Lithium Batteries for Integration in Microsystems. Nanoscience and Technology, 2012, , 575-619.	1.5	2
1146	Morphology Controlled Growth of Meso-Porous Co₃O₄Nanostructures and Study of Their Electrochemical Capacitive Behavior. Journal of the Electrochemical Society, 2012, 159, A1682-A1689.	1.3	13
1147	Nano-Sn/Mesoporous Carbon Parasitic Composite as Advanced Anode Material for Lithium-Ion Battery. Journal of the Electrochemical Society, 2012, 159, A2092-A2095.	1.3	25
1148	Synthesis and Characterization of Nanowire-Graphene Aerogel for Energy Storage Devices. , 2012, , .		0
1149	Generalized Routes to Mesostructured Silicates with High Metal Content. Zeitschrift Fur Physikalische Chemie, 2012, 226, 1219-1228.	1.4	6
1150	Hydrothermal synthesis and electrochemical properties of FeNbO₄ nanospheres. Journal of the Ceramic Society of Japan, 2012, 120, 82-85.	0.5	12

#	Article	IF	Citations
1152	Magnetic transition in Î±-NaCuPO4 with Cu-O chains. AIP Advances, 2012, 2, 032172.	0.6	1
1153	Atomic-Scale Imaging and Spectroscopy for In Situ Liquid Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2012, 18, 621-627.	0.2	125
1154	Electron-Beam-Induced Structure transition in spinel Li4Ti5O12. Microscopy and Microanalysis, 2012, 18, 1488-1489.	0.2	1
1155	Effects of morphological characteristics of Pt nanoparticles supported on poly(acrylic acid)-wrapped multiwalled carbon nanotubes on electrochemical performance of direct methanol fuel cells. Journal of Materials Research, 2012, 27, 2035-2045.	1.2	6
1156	CeO2 Hollow Nanospheres as Anode Material for Lithium Ion Batteries. Chemistry Letters, 2012, 41, 386-388.	0.7	22
1157	1D hollow Î±-Fe2O3 electrospun nanofibers as high performance anode material for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 23049.	6.7	227
1158	Integrated energy storage and electrochromic function in one flexible device: an energy storage smart window. Energy and Environmental Science, 2012, 5, 8384.	15.6	352
1159	Mesostructured thin films as electrocatalysts with tunable composition and surface morphology. Nature Materials, 2012, 11, 1051-1058.	13.3	323
1160	Synthesis of a metallic mesoporous pyrochlore as a catalyst for lithiumâ€“O2 batteries. Nature Chemistry, 2012, 4, 1004-1010.	6.6	507
1161	Nanocarbon Networks for Advanced Rechargeable Lithium Batteries. Accounts of Chemical Research, 2012, 45, 1759-1769.	7.6	533
1162	Bendable Inorganic Thin-Film Battery for Fully Flexible Electronic Systems. Nano Letters, 2012, 12, 4810-4816.	4.5	494
1163	Understanding and recent development of carbon coating on LiFePO₄cathode materials for lithium-ion batteries. Energy and Environmental Science, 2012, 5, 5163-5185.	15.6	839
1164	Synthesis of Hierarchical Three-Dimensional Vanadium Oxide Microstructures as High-Capacity Cathode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 3874-3879.	4.0	157
1165	Graphene-based hybrid materials and their applications in energy storage and conversion. Science Bulletin, 2012, 57, 2983-2994.	1.7	53
1166	Synthesis of high-charge capacity triarylamineâ€“thiophene redox electrodes using electrochemical copolymerization. Journal of Materials Chemistry, 2012, 22, 25447.	6.7	21
1167	Construction and Testing of Coin Cells of Lithium Ion Batteries. Journal of Visualized Experiments, 2012, , e4104.	0.2	10
1168	Building Robust Architectures of Carbon and Metal Oxide Nanocrystals toward High-Performance Anodes for Lithium-Ion Batteries. ACS Nano, 2012, 6, 9911-9919.	7.3	165
1169	Solvothermal Synthesis of Ultrasmall Tungsten Oxide Nanoparticles. Langmuir, 2012, 28, 17771-17777.	1.6	51

#	Article	IF	Citations
1170	Structure of Carboxyl-Acid-Terminated Self-Assembled Monolayers from Molecular Dynamics Simulations and Hybrid Quantum Mechanicsâ€“Molecular Mechanics Vibrational Normal-Mode Analysis. Journal of Physical Chemistry C, 2012, 116, 770-782.	1.5	18
1171	Design of Nanostructured Hybrid Materials Based on Carbon and Metal Oxides for Li Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 26685-26693.	1.5	77
1172	Quartz (SiO2): a new energy storage anode material for Li-ion batteries. Energy and Environmental Science, 2012, 5, 6895.	15.6	371
1173	Molecular Dynamics Simulation Study of the Interfacial Structure and Differential Capacitance of Alkylimidazolium Bis(trifluoromethanesulfonyl)imide [C_nmim][TFSI] Ionic Liquids at Graphite Electrodes. Journal of Physical Chemistry C, 2012, 116, 7940-7951.	1.5	144
1174	Facile synthesis of silicon nanoparticles inserted into graphene sheets as improved anode materials for lithium-ion batteries. Chemical Communications, 2012, 48, 2198.	2.2	417
1175	Gallium Nitride Nanowire Based Nanogenerators and Light-Emitting Diodes. ACS Nano, 2012, 6, 5687-5692.	7.3	150
1176	Nanostructured Li₂Sâ€“C Composites as Cathode Material for High-Energy Lithium/Sulfur Batteries. Nano Letters, 2012, 12, 6474-6479.	4.5	286
1177	Nanostructured Bilayered Vanadium Oxide Electrodes for Rechargeable Sodium-Ion Batteries. ACS Nano, 2012, 6, 530-538.	7.3	313
1178	Biosynthesis of Co3O4 electrode materials by peptide and phage engineering: comprehension and future. Energy and Environmental Science, 2012, 5, 9936.	15.6	45
1179	Electrolyte anion-assisted charge transportation in poly(oxoammonium cation/nitroxyl radical) redox gels. Journal of Materials Chemistry, 2012, 22, 13669.	6.7	42
1180	All-Solid-State Flexible Supercapacitors Fabricated with Bacterial Nanocellulose Papers, Carbon Nanotubes, and Triblock-Copolymer Ion Gels. ACS Nano, 2012, 6, 6400-6406.	7.3	440
1181	Electrochemical capacitors: Technical challenges and prognosis for future markets. Electrochimica Acta, 2012, 84, 165-173.	2.6	182
1182	Nanomedicine. , 2012, , 1644-1644.		0
1183	A Nanostructured Electrochromic Supercapacitor. Nano Letters, 2012, 12, 1857-1862.	4.5	357
1184	Sn/In2O3/C Nanocomposite as an Anode for Li Ion Batteries and Its Reaction Mechanism. Journal of the Electrochemical Society, 2012, 159, A1912-A1915.	1.3	10
1185	Diffusion of Lithium in Bulk Amorphous Silicon: A Theoretical Study. Journal of Physical Chemistry C, 2012, 116, 22212-22216.	1.5	156
1186	Nanoscale Triboelectric-Effect-Enabled Energy Conversion for Sustainably Powering Portable Electronics. Nano Letters, 2012, 12, 6339-6346.	4.5	1,062
1187	Synthesis of Adenine-Modified Reduced Graphene Oxide Nanosheets. Inorganic Chemistry, 2012, 51, 2954-2960.	1.9	60

#	Article	IF	Citations
1188	High Aspect Ratio Electrospun CuO Nanofibers as Anode Material for Lithium-Ion Batteries with Superior Cycleability. Journal of Physical Chemistry C, 2012, 116, 18087-18092.	1.5	202
1189	Nanostructured metal oxide-based materials as advanced anodes for lithium-ion batteries. Nanoscale, 2012, 4, 2526.	2.8	1,012
1190	Mesoporous Co₃O₄ and CoO@C Topotactically Transformed from Chrysanthemumâ€like Co(CO₃)_{0.5}(OH)Â·0.11H₂O and Their Lithiumâ€Storage Properties. Advanced Functional Materials, 2012, 22, 861-871.	7.8	554
1191	Volatile Single-Source Molecular Precursor for the Lithium Ion Battery Cathode. Journal of the American Chemical Society, 2012, 134, 5762-5765.	6.6	42
1192	Preparation and electrochemical performances of doughnut-like Ni(OH)2â€“Co(OH)2 composites as pseudocapacitor materials. Nanoscale, 2012, 4, 4498.	2.8	183
1193	A 3D Hexaporous Carbon Assembled from Singleâ€Layer Graphene as High Performance Supercapacitor. ChemSusChem, 2012, 5, 2159-2164.	3.6	72
1194	Synthesis and electrochemical performance of three-dimensionally ordered macroporous LiCoO2. Journal of Solid State Electrochemistry, 2012, 16, 3079-3085.	1.2	10
1195	A facile and cost-effective synthesis of mesoporous NiCo2O4 nanoparticles and their capacitive behavior in electrochemical capacitors. Journal of Solid State Electrochemistry, 2012, 16, 3621-3633.	1.2	81
1196	Hierarchical porous NiCo2O4 nanomaterials with excellent cycling behavior for electrochemical capacitors via a hard-templating route. Journal of Applied Electrochemistry, 2012, 42, 1033-1043.	1.5	24
1197	The preparation and characterization of nano-sized Ptâ€“Pd/C catalysts and comparison of their superior catalytic activities for methanol and ethanol oxidation. Journal of Materials Science, 2012, 47, 8134-8144.	1.7	71
1198	p(AAGA) hydrogel reactor for in situ Co and Ni nanoparticle preparation and use in hydrogen generation from the hydrolysis of sodium borohydride. Chemical Engineering Science, 2012, 82, 114-120.	1.9	38
1199	Porous Co(OH)2/Ni composite nanoflake array for high performance supercapacitors. Electrochimica Acta, 2012, 63, 335-340.	2.6	85
1200	Applications of nano-catalyst in new era. Journal of Saudi Chemical Society, 2012, 16, 307-325.	2.4	406
1201	Nanomaterials on flexible substrates to explore innovative functions: From energy harvesting to bio-integrated electronics. Thin Solid Films, 2012, 524, 1-19.	0.8	28
1202	Supercapacitors: An Alternate Technology for Energy Storage. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2012, 82, 79-90.	0.8	35
1204	In Situ TEM Investigation of Congruent Phase Transition and Structural Evolution of Nanostructured Silicon/Carbon Anode for Lithium Ion Batteries. Nano Letters, 2012, 12, 1624-1632.	4.5	256
1205	Synthesis of Hierarchical Hollow-Structured Single-Crystalline Magnetite (Fe₃O₄) Microspheres: The Highly Powerful Storage versus Lithium as an Anode for Lithium Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 6495-6502.	1.5	220
1206	Phase-Controlled Synthesis of Cobalt Sulfides for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 4246-4250.	4.0	165

#	Article	IF	Citations
1207	Oxidation-Etching Preparation of MnO₂ Tubular Nanostructures for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2012, 4, 2769-2774.	4.0	139
1208	Hierarchical carbon nanotube membrane with high packing density and tunable porous structure for high voltage supercapacitors. Carbon, 2012, 50, 5167-5175.	5.4	87
1209	Optimization Algorithms for Hierarchical Problems with Application to Nanoporous Materials. SIAM Journal on Optimization, 2012, 22, 1285-1308.	1.2	4
1210	Hollow Polypyrrole Films: Applications for Energy Storage Devices. Journal of the Electrochemical Society, 2012, 159, A1052-A1056.	1.3	19
1211	A Non-Aqueous Asymmetric Cell with a Ti₂C-Based Two-Dimensional Negative Electrode. Journal of the Electrochemical Society, 2012, 159, A1368-A1373.	1.3	332
1212	Ultralong monoclinic ZnV2O6 nanowires: their shape-controlled synthesis, new growth mechanism, and highly reversible lithium storage in lithium-ion batteries. RSC Advances, 2012, 2, 8110.	1.7	80
1213	Self-assembled mesoporous CoO nanodisks as a long-life anode material for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 13826.	6.7	119
1214	Design of efficient methanol impermeable membranes for fuel cell applications. Physical Chemistry Chemical Physics, 2012, 14, 2718.	1.3	28
1215	Versatile double hydrophilic block copolymer: dual role as synthetic nanoreactor and ionic and electronic conduction layer for ruthenium oxide nanoparticle supercapacitors. Journal of Materials Chemistry, 2012, 22, 11598.	6.7	27
1216	Surface modification of electrospun TiO2 nanofibers via layer-by-layer self-assembly for high-performance lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 4910.	6.7	60
1217	Super-long barnesite Na2V6O16Â·3H2O nanobelts for aligned film electrodes with enhanced anisotropic electrical transport. RSC Advances, 2012, 2, 7290.	1.7	9
1218	Synthesis of dinickel phosphide (Ni2P) for fast lithium-ion transportation: a new class of nanowires with exceptionally improved electrochemical performance as a negative electrode. RSC Advances, 2012, 2, 3430.	1.7	49
1219	Silicon-based nanocomposite for advanced thin film anodes in lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 1556-1561.	6.7	26
1220	A new energy conversion technology joining electrochemical and physical principles. RSC Advances, 2012, 2, 5066.	1.7	51
1221	Synthesis of ternary transition metal fluorides Li3MF6via a solâ€“gel route as candidates for cathode materials in lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 15819.	6.7	32
1222	A Surfactant-Free Strategy for Synthesizing and Processing Intermetallic Platinum-Based Nanoparticle Catalysts. Journal of the American Chemical Society, 2012, 134, 18453-18459.	6.6	116
1223	Facile synthetic fabrication of iron oxide particles and novel hydrogen superoxide supercapacitors. RSC Advances, 2012, 2, 6672.	1.7	81
1224	Cu6Sn5â€“TiCâ€“C nanocomposite alloy anodes with high volumetric capacity for lithium ion batteries. RSC Advances, 2012, 2, 5411.	1.7	35

#	Article	IF	Citations
1225	Nano-graphite functionalized mesocellular carbon foam with enhanced intra-penetrating electrical percolation networks for high performance electrochemical energy storage electrode materials. Physical Chemistry Chemical Physics, 2012, 14, 5695.	1.3	26
1226	Lithium batteries: current technologies and future trends. , 2012, , 573-600e.		0
1227	Multilayer conformal coating of highly dense Multi-Walled Carbon Nanotubes bundles. , 2012, , .		0
1228	An architectured TiO2 nanosheet with discrete integrated nanocrystalline subunits and its application in lithium batteries. Journal of Materials Chemistry, 2012, 22, 21513.	6.7	44
1229	Nanotube-based hierarchical titanate microspheres: an improved anode structure for Li-ion batteries. Chemical Communications, 2012, 48, 389-391.	2.2	51
1230	Three-dimensional hierarchical self-supported multi-walled carbon nanotubes/tin(iv) disulfide nanosheets heterostructure electrodes for high power Li ion batteries. Journal of Materials Chemistry, 2012, 22, 9330.	6.7	44
1231	Three-dimensional porous nano-Ni/Fe3O4 composite film: enhanced electrochemical performance for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 18639.	6.7	56
1232	Interconnected coreâ€“shell MoO2 microcapsules with nanorod-assembled shells as high-performance lithium-ion battery anodes. Journal of Materials Chemistry, 2012, 22, 13334.	6.7	111
1233	Structural evolution and the capacity fade mechanism upon long-term cycling in Li-rich cathode material. Physical Chemistry Chemical Physics, 2012, 14, 12875.	1.3	197
1234	E1 reaction-induced synthesis of hydrophilic oxide nanoparticles in a non-hydrophilic solvent. Nanoscale, 2012, 4, 6284.	2.8	6
1235	A hierarchical architecture S/MWCNT nanomicrosphere with large pores for lithium sulfur batteries. Physical Chemistry Chemical Physics, 2012, 14, 5376.	1.3	143
1236	Cu2Sbâ€“Al2O3â€“C nanocomposite alloy anodes with exceptional cycle life for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 3242.	6.7	38
1237	High performance low temperature solid oxide fuel cells with novel electrode architecture. RSC Advances, 2012, 2, 12118.	1.7	37
1238	Enhanced electrochemical performance of polyaniline/sulfonated polyhedral oligosilsesquioxane nanocomposites with porous and ordered hierarchical nanostructure. Journal of Materials Chemistry, 2012, 22, 1884-1892.	6.7	61
1239	The low-temperature (400 Â°C) coating of few-layer graphene on porous Li4Ti5O12via C28H16Br2 pyrolysis for lithium-ion batteries. RSC Advances, 2012, 2, 1751.	1.7	40
1240	Facile polymer-assisted synthesis of LiNi0.5Mn1.5O4 with a hierarchical microâ€“nano structure and high rate capability. RSC Advances, 2012, 2, 5669.	1.7	111
1241	Hierarchical porous nanostructures assembled from ultrathin MnO₂nanoflakes with enhanced supercapacitive performances. Journal of Materials Chemistry, 2012, 22, 2751-2756.	6.7	135
1242	Significantly increased cycling performance of novel â€œself-matrixâ€•NiSnO3 anode in lithium ion battery application. RSC Advances, 2012, 2, 6150.	1.7	43

#	Article	IF	Citations
1243	VO2 (A) nanostructures with controllable feature sizes and giant aspect ratios: one-step hydrothermal synthesis and lithium-ion battery performance. RSC Advances, 2012, 2, 5265.	1.7	44
1244	In situ generation of Li2FeSiO4 coating on MWNT as a high rate cathode material for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 18797.	6.7	52
1245	Drastically Improved Performances of Graphite/Li_{1.26}Mn_{0.52}Fe_{0.22}O₂Cell with Stepwise Pre-Cycling Treatment that Causes Peroxide Forming. Journal of the Electrochemical Society, 2012, 159, A1398-A1404.	1.3	30
1246	New synthesis method of sword-sheath structured carbon nanotubes. , 2012, , .		1
1247	Improving the Li-Electrochemical Properties of Monodisperse Ni₂P Nanoparticles by Self-Generated Carbon Coating. Chemistry of Materials, 2012, 24, 688-697.	3.2	86
1248	Enhanced performance of triarylamine redox electrodes through directed electrochemical polymerization. Journal of Materials Chemistry, 2012, 22, 2392-2394.	6.7	14
1249	An Integrated Power Pack of Dye-Sensitized Solar Cell and Li Battery Based on Double-Sided TiO₂ Nanotube Arrays. Nano Letters, 2012, 12, 2520-2523.	4.5	312
1250	Nanocrystal-Constructed Mesoporous Single-Crystalline Co₃O₄ Nanobelts with Superior Rate Capability for Advanced Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 5974-5980.	4.0	201
1251	CoMn2O4 Spinel Hierarchical Microspheres Assembled with Porous Nanosheets as Stable Anodes for Lithium-ion Batteries. Scientific Reports, 2012, 2, 986.	1.6	282
1252	Colloidal nanocrystal quantum dot assemblies as artificial solids. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, 030802.	0.9	111
1253	Nanosize Storage Properties in Spinel Li₄Ti₅O₁₂ Explained by Anisotropic Surface Lithium Insertion. ACS Nano, 2012, 6, 8702-8712.	7.3	131
1254	Controlled growth of SnO2@Fe2O3 double-sided nanocombs as anodes for lithium-ion batteries. Nanoscale, 2012, 4, 4459.	2.8	60
1255	A simple and high-effective electrolyte mediated with p-phenylenediamine for supercapacitor. Journal of Materials Chemistry, 2012, 22, 19025.	6.7	154
1256	Heat Capacity Studies of Surface Water Confined on Cassiterite (SnO₂) Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 3910-3917.	1.5	26
1257	DWCNT-Doped Silica Gel Exhibiting Both Ionic and Electronic Conductivities. Journal of Physical Chemistry C, 2012, 116, 11306-11314.	1.5	12
1258	Orientation-Dependent Interfacial Mobility Governs the Anisotropic Swelling in Lithiated Silicon Nanowires. Nano Letters, 2012, 12, 1953-1958.	4.5	212
1259	Lithium-Assisted Electrochemical Welding in Silicon Nanowire Battery Electrodes. Nano Letters, 2012, 12, 1392-1397.	4.5	110
1260	On the Influence of Pore Size and Pore Loading on Structural and Dynamical Heterogeneities of an Ionic Liquid Confined in a Slit Nanopore. Journal of Physical Chemistry C, 2012, 116, 5169-5181.	1.5	98

#	Article	IF	Citations
1261	From Paper to Paper-like Hierarchical Anatase TiO₂ Film Electrode for High-Performance Lithium-Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 17440-17447.	1.5	70
1262	Electrode reaction concerning imidazolium cation and graphite in organic solvent electrolyte. Solid State Ionics, 2012, 219, 29-33.	1.3	5
1263	Wet-chemical polyaniline nanorice mass-production for electrochemical supercapacitors. Synthetic Metals, 2012, 162, 1303-1307.	2.1	16
1264	A novel asymmetric pseudocapacitor based on poly(5,12-dihydrothieno) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 627 Td ([3â€²4 coated graphite cathode. Synthetic Metals, 2012, 162, 1434-1442.	2.1	23
1265	Hybridizing Energy Conversion and Storage in a Mechanical-to-Electrochemical Process for Self-Charging Power Cell. Nano Letters, 2012, 12, 5048-5054.	4.5	255
1266	A review of electrode materials for electrochemical supercapacitors. Chemical Society Reviews, 2012, 41, 797-828.	18.7	7,829
1267	Porous SnS Nanorods/Carbon Hybrid Materials as Highly Stable and High Capacity Anode for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 4093-4098.	4.0	111
1268	Stabilized TiN Nanowire Arrays for High-Performance and Flexible Supercapacitors. Nano Letters, 2012, 12, 5376-5381.	4.5	627
1269	Exploiting nanoparticles as precursors for novel nanostructure designs and properties. CrystEngComm, 2012, 14, 7535.	1.3	28
1270	Role of Nanostructures in Polymer Electrolytes for Energy Storage and Delivery. ACS Symposium Series, 2012, , 129-146.	0.5	1
1271	Hybrid multilayer thin film supercapacitor of graphene nanosheets with polyaniline: importance of establishing intimate electronic contact through nanoscale blending. Journal of Materials Chemistry, 2012, 22, 21092.	6.7	163
1272	Nanomaterials for renewable energy production and storage. Chemical Society Reviews, 2012, 41, 7909.	18.7	856
1273	Two-Dimensional Carbon-Coated Graphene/Metal Oxide Hybrids for Enhanced Lithium Storage. ACS Nano, 2012, 6, 8349-8356.	7.3	402
1274	Green synthesis of Fe3O4 nanoparticles embedded in a porous carbon matrix and its use as anode material in Li-ion batteries. Journal of Materials Chemistry, 2012, 22, 21373.	6.7	74
1275	Polyaniline-Grafted Reduced Graphene Oxide for Efficient Electrochemical Supercapacitors. ACS Nano, 2012, 6, 1715-1723.	7.3	807
1276	LiFePO₄ Nanocrystals: Liquid-Phase Reduction Synthesis and Their Electrochemical Performance. ACS Applied Materials & Interfaces, 2012, 4, 3062-3068.	4.0	32
1277	Advanced energy storage device: a hybrid BatCap system consisting of batteryâ€“supercapacitor hybrid electrodes based on Li4Ti5O12â€“activated-carbon hybrid nanotubes. Journal of Materials Chemistry, 2012, 22, 16986.	6.7	117
1278	Benzoxazole and benzimidazole heterocycle-grafted graphene for high-performance supercapacitor electrodes. Journal of Materials Chemistry, 2012, 22, 23439.	6.7	126

#	Article	IF	Citations
1279	Composition-Structure Relationships in the Li-Ion Battery Electrode Material LiNi_{0.5}Mn_{1.5}O₄. Chemistry of Materials, 2012, 24, 2952-2964.	3.2	211
1280	Flexible graphene-based lithium ion batteries with ultrafast charge and discharge rates. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17360-17365.	3.3	728
1281	Sn buffered by shape memory effect of NiTi alloys as high-performance anodes for lithium ion batteries. Acta Materialia, 2012, 60, 4695-4703.	3.8	53
1282	A phase-inversion process to prepare porous LiAl0.1Mn1.9O4 spinel for aqueous rechargeable lithium batteries. Microporous and Mesoporous Materials, 2012, 162, 44-50.	2.2	28
1283	WO3 hollow nanospheres for high-lithium storage capacity and good cyclability. Nano Energy, 2012, 1, 503-508.	8.2	88
1284	Electron transfer kinetics at single nanoparticles. Nano Today, 2012, 7, 174-179.	6.2	83
1285	Two-phase interface in LiMnPO4 nanoplates. Journal of Power Sources, 2012, 215, 116-121.	4.0	49
1286	Li3V2(PO4)3 nanocrystals embedded in a nanoporous carbon matrix supported on reduced graphene oxide sheets: Binder-free and high rate cathode material for lithium-ion batteries. Journal of Power Sources, 2012, 214, 171-177.	4.0	112
1287	Phase-separated siliconâ€“tin nanocomposites for high capacity negative electrodes in lithium ion batteries. Journal of Power Sources, 2012, 214, 258-265.	4.0	18
1288	Alkaline deoxygenated graphene oxide for supercapacitor applications: An effective green alternative for chemically reduced graphene. Journal of Power Sources, 2012, 215, 1-10.	4.0	128
1289	Nano-Li4Ti5O12 anchored on carbon nanotubes by liquid phase deposition as anode material for high rate lithium-ion batteries. Journal of Power Sources, 2012, 214, 195-199.	4.0	90
1290	Enhanced nanoscale conduction capability of a MoO2/Graphene composite for high performance anodes in lithium ion batteries. Journal of Power Sources, 2012, 216, 169-178.	4.0	107
1291	Mesoporous Co3O4 materials obtained from cobaltâ€“citrate complex and their high capacitance behavior. Journal of Power Sources, 2012, 217, 358-363.	4.0	35
1292	Synthesis and electrochemical characteristics of NASICON-structured LiSn2(PO4)3 anode material for lithium-ion batteries. Journal of Power Sources, 2012, 217, 77-84.	4.0	18
1293	Electrocatalytic performance of environmentally friendly synthesized gold nanoparticles towards the borohydride electro-oxidation reaction. Journal of Power Sources, 2012, 218, 73-78.	4.0	40
1294	A new hydrothermal synthesis of spherical Li4Ti5O12 anode material for lithium-ion secondary batteries. Journal of Power Sources, 2012, 219, 45-51.	4.0	58
1295	Free-standing and porous hierarchical nanoarchitectures constructed with cobalt cobaltite nanowalls for supercapacitors with high specific capacitances. Journal of Power Sources, 2012, 219, 140-146.	4.0	90
1296	The importance of â€œgoing nanoâ€•for high power battery materials. Journal of Power Sources, 2012, 219, 217-222.	4.0	65

#	Article	IF	Citations
1297	Enhanced performance of spherical natural graphite coated by Li4Ti5O12 as anode for lithium-ion batteries. Journal of Power Sources, 2012, 219, 188-192.	4.0	21
1298	Simple synthesis of metallic Sn nanocrystals embedded in graphitic ordered mesoporous carbon walls as superior anode materials for lithium ion batteries. Journal of Power Sources, 2012, 219, 89-93.	4.0	35
1299	Synthesis and electrochemical performance of spinel-type LiMn2O4 using Î³-MnOOH rods as self-template for lithium ion battery. Journal of Power Sources, 2012, 220, 228-235.	4.0	39
1300	Nanoparticle Li2FeSiO4 as anode material for lithium-ion batteries. Journal of Power Sources, 2012, 220, 103-107.	4.0	38
1301	CoxNi1â˜'x double hydroxide nanoparticles with ultrahigh specific capacitances as supercapacitor electrode materials. Electrochimica Acta, 2012, 78, 205-211.	2.6	125
1302	Characterization of spherical-shaped Li4Ti5O12 prepared by spray drying. Electrochimica Acta, 2012, 78, 331-339.	2.6	38
1303	Uniform hollow Fe3O4 spheres prepared by template-free solvothermal method as anode material for lithium-ion batteries. Electrochimica Acta, 2012, 78, 502-507.	2.6	68
1304	Nanoarchitectured Fe3O4 array electrode and its excellent lithium storage performance. Electrochimica Acta, 2012, 78, 585-591.	2.6	32
1305	Direct Synthesis of Self-Assembled Ferrite/Carbon Hybrid Nanosheets for High Performance Lithium-Ion Battery Anodes. Journal of the American Chemical Society, 2012, 134, 15010-15015.	6.6	231
1306	Metal organic frameworks for electrochemical applications. Energy and Environmental Science, 2012, 5, 9269.	15.6	767
1307	Ti-based compounds as anode materials for Li-ion batteries. Energy and Environmental Science, 2012, 5, 6652.	15.6	775
1308	Porous Carbon Spheres from Energetic Carbon Precursors using Ultrasonic Spray Pyrolysis. Advanced Materials, 2012, 24, 6028-6033.	11.1	60
1309	Crumpled Nitrogenâ€Doped Graphene Nanosheets with Ultrahigh Pore Volume for Highâ€Performance Supercapacitor. Advanced Materials, 2012, 24, 5610-5616.	11.1	880
1310	Recent Advances in Metal Oxideâ€based Electrode Architecture Design for Electrochemical Energy Storage. Advanced Materials, 2012, 24, 5166-5180.	11.1	2,251
1311	Graphene Multilayer Supported Gold Nanoparticles for Efficient Electrocatalysts Toward Methanol Oxidation. Advanced Energy Materials, 2012, 2, 1510-1518.	10.2	54
1315	Platinum Nanoparticles Stabilized by Cucurbit[6]uril with Enhanced Catalytic Activity and Excellent Poisoning Tolerance for Methanol Electrooxidation. Chemistry - A European Journal, 2012, 18, 12978-12985.	1.7	46
1316	Hydrogenated TiO₂ Nanotube Arrays as Highâ€Rate Anodes for Lithiumâ€Ion Microbatteries. ChemPlusChem, 2012, 77, 991-1000.	1.3	150
1317	Percolation threshold and conductivity of polymer electrolyte composites: Effect of dispersoid particle size. Polymer Composites, 2012, 33, 1750-1754.	2.3	12

#	Article	IF	Citations
1318	Graphene nanostructures toward clean energy technology applications. Wiley Interdisciplinary Reviews: Energy and Environment, 2012, 1, 317-336.	1.9	30
1321	Synthesis of hollow spherical LiFePO4 by a novel route using organic phosphate. CrystEngComm, 2012, 14, 4612.	1.3	17
1322	Graphene based catalysts. Energy and Environmental Science, 2012, 5, 8848.	15.6	726
1323	Tacticity Influence on the Electrochemical Reactivity of Group Transfer Polymerization-Synthesized PTMA. Journal of Physical Chemistry B, 2012, 116, 5542-5550.	1.2	30
1324	Oxygen Bridges between NiO Nanosheets and Graphene for Improvement of Lithium Storage. ACS Nano, 2012, 6, 3214-3223.	7.3	977
1325	Graphene oxideâ€“photosensitizer conjugate as a redox-responsive theranostic agent. Chemical Communications, 2012, 48, 9912.	2.2	88
1326	Microstructural design considerations for Li-ion battery systems. Current Opinion in Solid State and Materials Science, 2012, 16, 153-162.	5.6	71
1328	Nanostructures for Coloration (Organisms other than Animals). , 2012, , 1790-1803.		0
1329	Biomineralized Sn-based multiphasic nanostructures for Li-ion battery electrodes. Nanoscale, 2012, 4, 4694.	2.8	37
1330	A green and high energy density asymmetric supercapacitor based on ultrathin MnO₂nanostructures and functional mesoporous carbon nanotube electrodes. Nanoscale, 2012, 4, 807-812.	2.8	276
1331	The AMPIX electrochemical cell: a versatile apparatus forin situX-ray scattering and spectroscopic measurements. Journal of Applied Crystallography, 2012, 45, 1261-1269.	1.9	179
1332	Lithium Insertion into Anatase Nanotubes. Chemistry of Materials, 2012, 24, 4468-4476.	3.2	110
1333	Nanoplasmonic Sensing for Nanomaterials Science, Catalysis, and Optical Gas Detection. , 2012, , 169-197.		2
1334	One-Step In situ Synthesis of SnO₂/Graphene Nanocomposites and Its Application As an Anode Material for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 454-459.	4.0	217
1335	Graphene oxide based conductive glue as a binder for ultracapacitor electrodes. Journal of Materials Chemistry, 2012, 22, 12993.	6.7	37
1336	In Situ Ambient Pressure X-ray Photoelectron Spectroscopy Studies of Lithium-Oxygen Redox Reactions. Scientific Reports, 2012, 2, 715.	1.6	180
1337	Tailored graphene-encapsulated mesoporous Co3O4 composite microspheres for high-performance lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 17278.	6.7	112
1338	Ultrathin CoO/Graphene Hybrid Nanosheets: A Highly Stable Anode Material for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 20794-20799.	1.5	154

#	Article	IF	Citations
1340	Surface Science and Electrochemical Analysis of Nickel Foams. ACS Applied Materials & Interfaces, 2012, 4, 3012-3021.	4.0	198
1341	A novel approach for preparation of â€œcage-likeâ€•multihollow polymer microspheres through sulfonated polystyrene particles. Colloid and Polymer Science, 2012, 290, 1749-1757.	1.0	13
1342	A simple method for solving the voltage overshoots of LiFePO4-based lithium-ion batteries with different capacity classes. RSC Advances, 2012, 2, 3844.	1.7	5
1343	Facile Ultrasonic Synthesis of CoO Quantum Dot/Graphene Nanosheet Composites with High Lithium Storage Capacity. ACS Nano, 2012, 6, 1074-1081.	7.3	475
1344	Hierarchical porous NiCo2O4 nanowires for high-rate supercapacitors. Chemical Communications, 2012, 48, 4465.	2.2	544
1345	Three-dimensionally ordered macroporous FeF3 and its in situ homogenous polymerization coating for high energy and power density lithium ion batteries. Energy and Environmental Science, 2012, 5, 8538.	15.6	213
1346	Organic/Inorganic Hybrid Block Copolymer Electrolytes with Nanoscale Ion-Conducting Channels for Lithium Ion Batteries. Macromolecules, 2012, 45, 9347-9356.	2.2	108
1347	Controllable synthesis of monodisperse ultrathin SnO2 nanorods on nitrogen-doped graphene and its ultrahigh lithium storage properties. Nanoscale, 2012, 4, 5425.	2.8	85
1348	Enhanced Anode Performances of Polyanilineâ€“TiO₂â€“Reduced Graphene Oxide Nanocomposites for Lithium Ion Batteries. Inorganic Chemistry, 2012, 51, 9544-9551.	1.9	84
1349	Extremely slow Li ion dynamics in monoclinic Li2TiO3â€”probing macroscopic jump diffusion via7Li NMR stimulated echoes. Physical Chemistry Chemical Physics, 2012, 14, 11974.	1.3	43
1350	One step synthesis of pure cubic and monoclinic HfO2 nanoparticles: Correlating the structure to the electronic properties of the two polymorphs. Journal of Applied Physics, 2012, 112, .	1.1	52
1351	Facile synthesis of porous MnO/C nanotubes as a high capacity anode material for lithium ion batteries. Chemical Communications, 2012, 48, 8502.	2.2	140
1352	Nanocasting, Template Synthesis, and Structural Studies on Cesium Salt of Phosphotungstic Acid for the Synthesis of Novel 1,3,5-Triaryl-pyrazoline Derivatives. Chinese Journal of Catalysis, 2012, 33, 237-246.	6.9	8
1353	Electrochemical performance of Nd1.93Sr0.07CuO4 nanofiber as cathode material for SOFC. International Journal of Hydrogen Energy, 2012, 37, 11955-11962.	3.8	50
1354	Catalyst loading for Pt-nanowire thin film electrodes in PEFCs. International Journal of Hydrogen Energy, 2012, 37, 17892-17898.	3.8	41
1355	Compressible aligned carbon nanotube/MnO2 as high-rate electrode materials for supercapacitors. Journal of Electroanalytical Chemistry, 2012, 684, 32-37.	1.9	24
1356	Morphology control and high electrochemical performance of flower-like N-enriched porous carbons for supercapacitor. Journal of Electroanalytical Chemistry, 2012, 687, 18-24.	1.9	7
1357	MoO2â€“graphene nanocomposite as anode material for lithium-ion batteries. Electrochimica Acta, 2012, 79, 148-153.	2.6	134

#	Article	IF	Citations
1358	Covalently bonded polyaniline/fullerene hybrids with coral-like morphology for high-performance supercapacitor. Electrochimica Acta, 2012, 85, 235-242.	2.6	79
1359	Highly flexible self-standing film electrode composed of mesoporous rutile TiO2/C nanofibers for lithium-ion batteries. Electrochimica Acta, 2012, 85, 636-643.	2.6	81
1360	Fabrication of porous platelike LiFePO4/C cathode materials via hydrothermal process. Powder Technology, 2012, 230, 219-224.	2.1	16
1361	Electrochemical properties of nanocrystalline LiCuxMn2â^'xO4 (xÂ=Â0.2â€“0.6) particles prepared by ultrasonic spray pyrolysis method. Materials Chemistry and Physics, 2012, 136, 424-430.	2.0	14
1362	Covalent functionalization of zinc oxide nanowires for high sensitivity p-nitrophenol detection in biological systems. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1583-1588.	1.7	12
1363	CNTs grown on oxygen-deficient anatase TiO2â^'Î´ as high-rate composite electrode material for lithium ion batteries. Electrochemistry Communications, 2012, 25, 132-135.	2.3	22
1364	Seed-assisted synthesis of highly ordered TiO2@Î±-Fe2O3 core/shell arrays on carbon textiles for lithium-ion battery applications. Energy and Environmental Science, 2012, 5, 6559.	15.6	421
1365	Nanomaterials for Sensing Applications: Introduction and Perspective. Springer Series on Chemical Sensors and Biosensors, 2012, , 1-16.	0.5	7
1366	High Capacity MoO₂/Graphite Oxide Composite Anode for Lithium-Ion Batteries. Journal of Physical Chemistry Letters, 2012, 3, 309-314.	2.1	151
1367	MULTIWALLED CARBON NANOTUBES BASED NANOCOMPOSITES FOR SUPERCAPACITORS: A REVIEW OF ELECTRODE MATERIALS. Nano, 2012, 07, 1230002.	0.5	102
1368	Can surface modification be more effective to enhance the electrochemical performance of lithium rich materials?. Journal of Materials Chemistry, 2012, 22, 1489-1497.	6.7	92
1369	Facile Solvothermal Synthesis of Phase-Pure Cu4O3 Microspheres and Their Lithium Storage Properties. Chemistry of Materials, 2012, 24, 1136-1142.	3.2	51
1370	Surfactant-free scalable synthesis of hierarchically spherical Co₃O₄superstructures and their enhanced lithium-ion storage performances. Nanotechnology, 2012, 23, 465401.	1.3	25
1371	Nanocrystalline NiMoO4 with an ordered mesoporous morphology as potential material for rechargeable thin film lithium batteries. Chemical Communications, 2012, 48, 6726.	2.2	125
1372	Fuel Cell Technology. , 2012, , 273-283.		3
1373	Iron supported C@Fe3O4 nanotube array: a new type of 3D anode with low-cost for high performance lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 5560.	6.7	77
1374	A comprehensive study on KOH activation of ordered mesoporous carbons and their supercapacitor application. Journal of Materials Chemistry, 2012, 22, 93-99.	6.7	343
1375	High-performance supercapacitor material based on Ni(OH)2 nanowire-MnO2 nanoflakes coreâ€“shell nanostructures. Chemical Communications, 2012, 48, 2606.	2.2	244

#	Article	IF	Citations
1376	Ultrathin SnS₂ Nanoparticles on Graphene Nanosheets: Synthesis, Characterization, and Li-Ion Storage Applications. Journal of Physical Chemistry C, 2012, 116, 12475-12481.	1.5	137
1377	SnO2 and TiO2-supported-SnO2 lithium battery anodes with improved electrochemical performance. Journal of Materials Chemistry, 2012, 22, 11134.	6.7	70
1378	Graphene electrochemical supercapacitors: the influence of oxygen functional groups. Chemical Communications, 2012, 48, 2770.	2.2	62
1379	4 V class aqueous hybrid electrochemical capacitor with battery-like capacity. RSC Advances, 2012, 2, 12144.	1.7	49
1380	Fluorescence Correlation Spectroscopy Directly Monitors Coalescence During Nanoparticle Preparation. Nano Letters, 2012, 12, 6012-6017.	4.5	49
1381	High performance lithium-ion cells using one dimensional electrospun TiO2 nanofibers with spinel cathode. RSC Advances, 2012, 2, 7983.	1.7	41
1382	Lithium Titanate Aerogel for Advanced Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 2318-2321.	4.0	26
1383	A Solid-State Reaction Route to Anchoring Ni(OH)₂ Nanoparticles on Reduced Graphene Oxide Sheets for Supercapacitors. Industrial & Engineering Chemistry Research, 2012, 51, 9973-9979.	1.8	99
1384	Responsive and Nonequilibrium Nanomaterials. Journal of Physical Chemistry Letters, 2012, 3, 2103-2111.	2.1	59
1385	Superior high rate performance of coreâ€“shell Li4Ti5O12/carbon nanocomposite synthesized by a supercritical alcohol approach. RSC Advances, 2012, 2, 10805.	1.7	46
1386	Large-scale synthesis of ceria-based nano-oxides with high CO oxidation activity. Catalysis Science and Technology, 2012, 2, 931.	2.1	33
1387	Hollow CoFe₂O₄nanospheres as a high capacity anode material for lithium ion batteries. Nanotechnology, 2012, 23, 055402.	1.3	140
1388	General synthesis of xLi2MnO3Â·(1 â^' x)LiMn1/3Ni1/3Co1/3O2 nanomaterials by a molten-salt method: towards a high capacity and high power cathode for rechargeable lithium batteries. Journal of Materials Chemistry, 2012, 22, 25380.	6.7	115
1389	From titanates to TiO2 nanostructures: Controllable synthesis, growth mechanism, and applications. Science China Chemistry, 2012, 55, 2334-2345.	4.2	24
1390	Anodized Macroporous Silicon Anode for Integration of Lithium-Ion Batteries on Chips. Journal of Electronic Materials, 2012, 41, 2369-2375.	1.0	27
1391	Structural design of 3-dimensional disk electrode based on Cu-CoO composite for Li-ion battery. Korean Journal of Chemical Engineering, 2012, 29, 985-988.	1.2	2
1392	Hierarchical WO3 flowers comprising porous single-crystalline nanoplates show enhanced lithium storage and photocatalysis. Nano Research, 2012, 5, 826-832.	5.8	91
1393	Oxygen-Deficient TiO_{2â^'Î´} Nanoparticles via Hydrogen Reduction for High Rate Capability Lithium Batteries. Chemistry of Materials, 2012, 24, 543-551.	3.2	373

#	Article	IF	Citations
1394	Simultaneous Control of Ionic and Electronic Conductivity in Materials: Thallium Bromide Case Study. Physical Review Letters, 2012, 108, 246604.	2.9	13
1395	Structure and compositional control of MoO3 hybrids assembled by nanoribbons for improved pseudocapacitor rate and cycle performance. Nanoscale, 2012, 4, 7855.	2.8	31
1396	High-energy â€˜compositeâ€™ layered manganese-rich cathode materials via controlling Li2MnO3 phase activation for lithium-ion batteries. Physical Chemistry Chemical Physics, 2012, 14, 6584.	1.3	260
1397	Low-Temperature Fuel Cell Technology for Green Energy. , 2012, , 1657-1702.		4
1398	One-pot synthesis of mesoporous interconnected carbon-encapsulated Fe3O4 nanospheres as superior anodes for Li-ion batteries. RSC Advances, 2012, 2, 2262.	1.7	103
1399	Printable thin film supercapacitors utilizing single crystal cobalt hydroxidenanosheets. RSC Advances, 2012, 2, 1508-1515.	1.7	48
1400	A lithium-ion anode with micro-scale mixed hierarchical carbon coated single crystal TiO2 nanorod spheres and carbon spheres. Journal of Materials Chemistry, 2012, 22, 24552.	6.7	32
1401	Local structure of LiCoO₂nanoparticles studied by Co K-edge x-ray absorption spectroscopy. Journal of Physics Condensed Matter, 2012, 24, 335305.	0.7	12
1402	Surfactant-free fabrication of CaTiO3 butterfly-like dendrite via a simple one-step hydrothermal route. CrystEngComm, 2012, 14, 6990.	1.3	41
1403	Silicon-based nanomaterials for lithium-ion batteries. Science Bulletin, 2012, 57, 4104-4110.	1.7	77
1404	Scientometric analysis of publications in the area of nanoenergy based on the materials of the peer-reviewed journal of VINITI RAS Physics of Nanoobjects and Nanotechnology. Scientific and Technical Information Processing, 2012, 39, 215-219.	0.3	2
1405	Synthesizing MnO₂nanosheets from graphene oxide templates for high performance pseudosupercapacitors. Chemical Science, 2012, 3, 433-437.	3.7	194
1406	Ion exchange membranes as electrolyte for high performance Li-ion batteries. Energy and Environmental Science, 2012, 5, 9007.	15.6	64
1407	Ultra high density three dimensional capacitors based on Si nanowires array grown on a metal layer. Applied Physics Letters, 2012, 101, 083110.	1.5	25
1408	Facile and economical synthesis of hierarchical carbon-coated magnetite nanocomposite particles and their applications in lithium ion battery anodes. Energy and Environmental Science, 2012, 5, 9528.	15.6	111
1409	Structure and Dynamics of an Ionic Liquid Confined Inside a Charged Slit Graphitic Nanopore. Journal of Physical Chemistry C, 2012, 116, 14504-14513.	1.5	63
1410	Hydrothermal Synthesis of Hematite Nanoparticles and Their Electrochemical Properties. Journal of Physical Chemistry C, 2012, 116, 16276-16285.	1.5	207
1411	Single-component fuel cells fabricated by spark plasma sintering. RSC Advances, 2012, 2, 12140.	1.7	6

#	Article	IF	Citations
1412	UV-Induced Radical Photo-Polymerization: A Smart Tool for Preparing Polymer Electrolyte Membranes for Energy Storage Devices. Membranes, 2012, 2, 307-324.	1.4	4
1413	Nanoengineering Strategies for Metalâ€“Insulatorâ€“Metal Electrostatic Nanocapacitors. ACS Nano, 2012, 6, 3528-3536.	7.3	62
1414	Controlled Synthesis of Carbon-Coated Cobalt Sulfide Nanostructures in Oil Phase with Enhanced Li Storage Performances. ACS Applied Materials & Interfaces, 2012, 4, 2999-3006.	4.0	137
1415	Ion Transport in Liquid Salt Solutions with Oxide Dispersions: â€œSoggy Sandâ€•Electrolytes. Journal of Physical Chemistry Letters, 2012, 3, 744-750.	2.1	34
1416	Spin-alignment echo NMR: probing Li+hopping motion in the solid electrolyte Li7La3Zr2O12with garnet-type tetragonal structure. Journal of Physics Condensed Matter, 2012, 24, 035901.	0.7	20
1417	Structural, Optical, and Magnetic Properties of Highly Ordered Mesoporous MCr₂O₄ and MCr_{2â€“x}Fe_xO₄ (M = Co, Zn) Spinel Thin Films with Uniform 15 nm Diameter Pores and Tunable Nanocrystalline Domain Sizes. Chemistry of Materials, 2012, 24, 155-165.	3.2	43
1418	Improved electrode kinetics in lithium manganospinel nanoparticles synthesized by hydrothermal methods: identifying and eliminating oxygen vacancies. Journal of Materials Chemistry, 2012, 22, 1578-1591.	6.7	23
1419	High pseudocapacitance of MnO2 nanoparticles in graphitic disordered mesoporous carbon at high scan rates. Journal of Materials Chemistry, 2012, 22, 3160.	6.7	85
1420	Polyanilineâ€“MnO2 coaxial nanofiber with hierarchical structure for high-performance supercapacitors. Journal of Materials Chemistry, 2012, 22, 16939.	6.7	157
1421	High performance silicon nanoparticle anode in fluoroethylene carbonate-based electrolyte for Li-ion batteries. Chemical Communications, 2012, 48, 7268.	2.2	269
1422	Nano-FET. , 2012, , 1543-1543.		0
1423	Layer-by-Layer Engineered Coâ€“Al Hydroxide Nanosheets/Graphene Multilayer Films as Flexible Electrode for Supercapacitor. Langmuir, 2012, 28, 293-298.	1.6	198
1424	Preparation of CoNi high surface area porous foams by substrate controlled electrodeposition. Physical Chemistry Chemical Physics, 2012, 14, 972-980.	1.3	14
1425	Superior radical polymer cathode material with a two-electron process redox reaction promoted by graphene. Energy and Environmental Science, 2012, 5, 5221-5225.	15.6	241
1426	3D heterostructured architectures of Co3O4 nanoparticles deposited on porous graphene surfaces for high performance of lithium ion batteries. Nanoscale, 2012, 4, 5924.	2.8	182
1427	Highly doped silicon nanowires based electrodes for micro-electrochemical capacitor applications. Electrochemistry Communications, 2012, 25, 109-111.	2.3	75
1428	Sandwich-Lithiation and Longitudinal Crack in Amorphous Silicon Coated on Carbon Nanofibers. ACS Nano, 2012, 6, 9158-9167.	7.3	72
1429	Li2MnSiO4 obtained by microwave assisted solvothermal method: electrochemical and surface studies. Journal of Materials Chemistry, 2012, 22, 21279.	6.7	45

#	Article	IF	Citations
1430	Ultrathin MnO₂ Nanorods on Conducting Polymer Nanofibers as a New Class of Hierarchical Nanostructures for High-Performance Supercapacitors. Journal of Physical Chemistry C, 2012, 116, 15900-15907.	1.5	102
1431	Size-Dependent Fracture of Silicon Nanoparticles During Lithiation. ACS Nano, 2012, 6, 1522-1531.	7.3	1,816
1432	Dominant Factors Governing the Rate Capability of a TiO₂ Nanotube Anode for High Power Lithium Ion Batteries. ACS Nano, 2012, 6, 8308-8315.	7.3	184
1433	In SituChemical Oxidation of Ultrasmall<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:msub><mml:mtext>MoO</mml:mtext><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>Nan in Suspensions. Journal of Nanotechnology, 2012, 2012, 1-5.	1.5	16
1434	Visualization of Lithium Atoms using Ultra High-Resolution TEM. Journal of the Vacuum Society of Japan, 2012, 55, 144-151.	0.3	1
1435	The Role of Nanotechnology in Automotive Industries. , 0, , .		17
1436	Fabrication of core/shell ZnWO4/carbon nanorods and their Li electroactivity. Nanoscale Research Letters, 2012, 7, 9.	3.1	15
1437	Electrochemistry of titanium dioxide: some aspects and highlights. Chemical Record, 2012, 12, 131-142.	2.9	118
1438	Carbon Nanomaterials for Advanced Energy Conversion and Storage. Small, 2012, 8, 1130-1166.	5.2	1,304
1439	Hollow Porous LiMn₂O₄ Microcubes as Rechargeable Lithium Battery Cathode with High Electrochemical Performance. Small, 2012, 8, 858-862.	5.2	69
1440	A Facile Polymer Templating Route Toward Highâ€Aspectâ€Ratio Crystalline Titania Nanostructures. Small, 2012, 8, 2636-2640.	5.2	33
1441	3D Nanoporous Nanowire Current Collectors for Thin Film Microbatteries. Nano Letters, 2012, 12, 1198-1202.	4.5	101
1442	Towards nano-organic chemistry: perspectives for a bottom-up approach to the synthesis of low-dimensional carbon nanostructures. Nanoscale, 2012, 4, 369-379.	2.8	27
1443	Graphene-based composites. Chemical Society Reviews, 2012, 41, 666-686.	18.7	3,513
1444	Reactive Ballistic Deposition of Nanostructured Model Materials for Electrochemical Energy Conversion and Storage. Accounts of Chemical Research, 2012, 45, 434-443.	7.6	36
1445	Controlled Synthesis and Energy Applications of Oneâ€Dimensional Conducting Polymer Nanostructures: An Overview. Advanced Energy Materials, 2012, 2, 179-218.	10.2	329
1446	Porous Doped Silicon Nanowires for Lithium Ion Battery Anode with Long Cycle Life. Nano Letters, 2012, 12, 2318-2323.	4.5	787
1447	Surface modification of metal oxide nanocrystals for improved supercapacitors. Energy and Environmental Science, 2012, 5, 7555.	15.6	33

#	Article	IF	Citations
1448	Facile Synthesis and Evaluation of Nanofibrous Ironâ€“Carbon Based Non-Precious Oxygen Reduction Reaction Catalysts for Liâ€“O₂ Battery Applications. Journal of Physical Chemistry C, 2012, 116, 9427-9432.	1.5	67
1449	Size-Tunable, Hexagonal Plate-like Cu₃P and Janus-like Cuâ€“Cu₃P Nanocrystals. ACS Nano, 2012, 6, 32-41.	7.3	94
1450	Flexible Electronics: The Next Ubiquitous Platform. Proceedings of the IEEE, 2012, 100, 1486-1517.	16.4	822
1451	Synthesis of Nitrogen-Doped Porous Carbon Nanofibers as an Efficient Electrode Material for Supercapacitors. ACS Nano, 2012, 6, 7092-7102.	7.3	1,572
1452	Layer-by-layer assembled MoO2â€“graphene thin film as a high-capacity and binder-free anode for lithium-ion batteries. Nanoscale, 2012, 4, 4707.	2.8	127
1453	Oilâ€“water interfacial self-assembly: a novel strategy for nanofilm and nanodevice fabrication. Chemical Society Reviews, 2012, 41, 1350-1362.	18.7	233
1454	Nickel oxide/expanded graphite nanocomposite electrodes for supercapacitor application. Journal of Solid State Electrochemistry, 2012, 16, 2667-2674.	1.2	33
1455	Single-crystalline NiCo2O4 nanoneedle arrays grown on conductive substrates as binder-free electrodes for high-performance supercapacitors. Energy and Environmental Science, 2012, 5, 9453.	15.6	754
1456	Î±-Fe2O3 nanoparticles anchored on graphene with 3D quasi-laminated architecture: in situ wet chemistry synthesis and enhanced electrochemical performance for lithium ion batteries. New Journal of Chemistry, 2012, 36, 1589.	1.4	87
1457	Functional Carbon Materials From Ionic Liquid Precursors. Macromolecular Chemistry and Physics, 2012, 213, 1132-1145.	1.1	99
1458	Solvothermal Synthesis of Uniform Co₃O₄/C Hollow Quasiâ€Nanospheres for Enhanced Lithium Ion Intercalation Applications. European Journal of Inorganic Chemistry, 2012, 2012, 3825-3829.	1.0	47
1459	Functionalization of reduced graphene oxides by redox-active ionic liquids for energy storage. Chemical Communications, 2012, 48, 6381.	2.2	16
1460	Hollow carbon cage with nanocapsules of graphitic shell/nickel core as an anode material for high rate lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 11252.	6.7	69
1461	Fabrication of highly ordered P3HT:PCBM nanostructures and its application as a supercapacitive electrode. Nanoscale, 2012, 4, 3725.	2.8	24
1462	High energy density supercapacitors using macroporous kitchen sponges. Journal of Materials Chemistry, 2012, 22, 14394.	6.7	83
1463	High-Density Chemical Intercalation of Zero-Valent Copper into Bi₂Se₃ Nanoribbons. Journal of the American Chemical Society, 2012, 134, 7584-7587.	6.6	152
1464	The effect of concentration on Li diffusivity and conductivity in rutile TiO2. Physical Chemistry Chemical Physics, 2012, 14, 4565.	1.3	32
1465	Nanostructured Zn-based composite anodes for rechargeable Li-ion batteries. Journal of Materials Chemistry, 2012, 22, 12767.	6.7	89

#	Article	IF	Citations
1466	Surface Chemistry of Ruthenium Dioxide in Heterogeneous Catalysis and Electrocatalysis: From Fundamental to Applied Research. Chemical Reviews, 2012, 112, 3356-3426.	23.0	580
1467	An Overview of the Applications of Grapheneâ€Based Materials in Supercapacitors. Small, 2012, 8, 1805-1834.	5.2	1,210
1468	Layer-by-Layer Self-Assembled Multilayer Films Composed of Graphene/Polyaniline Bilayers: High-Energy Electrode Materials for Supercapacitors. Langmuir, 2012, 28, 12637-12646.	1.6	138
1469	Sodium Titanate Nanotubes as Negative Electrode Materials for Sodium-Ion Capacitors. ACS Applied Materials & Interfaces, 2012, 4, 2762-2768.	4.0	218
1470	Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage. Advanced Functional Materials, 2012, 22, 1647-1654.	7.8	384
1471	Controllable Synthesis of a Monophase Nickel Phosphide/Carbon (Ni₅P₄/C) Composite Electrode via Wetâ€Chemistry and a Solidâ€State Reaction for the Anode in Lithium Secondary Batteries. Advanced Functional Materials, 2012, 22, 3927-3935.	7.8	125
1472	A High Energy Density Asymmetric Supercapacitor from Nanoâ€architectured Ni(OH)₂/Carbon Nanotube Electrodes. Advanced Functional Materials, 2012, 22, 1272-1278.	7.8	803
1473	3D Hierarchical Co₃O₄ Twinâ€Spheres with an Urchinâ€Like Structure: Largeâ€Scale Synthesis, Multistepâ€Splitting Growth, and Electrochemical Pseudocapacitors. Advanced Functional Materials, 2012, 22, 4052-4059.	7.8	289
1474	Hybrid Nanostructures for Energy Storage Applications. Advanced Materials, 2012, 24, 5045-5064.	11.1	473
1475	Mesoporous Carbon Incorporated Metal Oxide Nanomaterials as Supercapacitor Electrodes. Advanced Materials, 2012, 24, 4197-4202.	11.1	548
1476	Twoâ€Dimensional Nanoarchitectures for Lithium Storage. Advanced Materials, 2012, 24, 4097-4111.	11.1	501
1477	Emerging Applications of Atomic Layer Deposition for Lithiumâ€ion Battery Studies. Advanced Materials, 2012, 24, 3589-3615.	11.1	493
1478	Patterning Techniques for Metal Organic Frameworks. Advanced Materials, 2012, 24, 3153-3168.	11.1	111
1479	Ionic Liquidâ€Nanoparticle Hybrid Electrolytes and their Application in Secondary Lithiumâ€Metal Batteries. Advanced Materials, 2012, 24, 4430-4435.	11.1	278
1480	TiO₂â€(B) Nanotubes as Anodes for Lithium Batteries: Origin and Mitigation of Irreversible Capacity. Advanced Energy Materials, 2012, 2, 322-327.	10.2	234
1481	High Energy Density Supercapacitor Based on a Hybrid Carbon Nanotubeâ€“Reduced Graphite Oxide Architecture. Advanced Energy Materials, 2012, 2, 438-444.	10.2	182
1482	In Situ TEM Experiments of Electrochemical Lithiation and Delithiation of Individual Nanostructures. Advanced Energy Materials, 2012, 2, 722-741.	10.2	341
1483	Electrode Materials for Rechargeable Sodiumâ€ion Batteries: Potential Alternatives to Current Lithiumâ€ion Batteries. Advanced Energy Materials, 2012, 2, 710-721.	10.2	2,944

#	Article	IF	Citations
1484	Coreâ€“Shell Structure of Polypyrrole Grown on V₂O₅ Nanoribbon as High Performance Anode Material for Supercapacitors. Advanced Energy Materials, 2012, 2, 950-955.	10.2	469
1485	Liâ€Redox Flow Batteries Based on Hybrid Electrolytes: At the Cross Road between Liâ€ion and Redox Flow Batteries. Advanced Energy Materials, 2012, 2, 770-779.	10.2	138
1486	Active MnO_x Electrocatalysts Prepared by Atomic Layer Deposition for Oxygen Evolution and Oxygen Reduction Reactions. Advanced Energy Materials, 2012, 2, 1269-1277.	10.2	298
1491	Redoxâ€Active Metalâ€Centered Oxalato Phosphate Open Framework Cathode Materials for Lithium Ion Batteries. Angewandte Chemie - International Edition, 2012, 51, 5866-5870.	7.2	148
1492	Structural and Mechanistic Revelations on an Iron Conversion Reaction from Pair Distribution Function Analysis. Angewandte Chemie - International Edition, 2012, 51, 4852-4855.	7.2	36
1493	Nanoscale Porous Framework of Lithium Titanate for Ultrafast Lithium Insertion. Angewandte Chemie - International Edition, 2012, 51, 7459-7463.	7.2	155
1494	A Highly Crossâ€Linked Polymeric Binder for Highâ€Performance Silicon Negative Electrodes in Lithium Ion Batteries. Angewandte Chemie - International Edition, 2012, 51, 8762-8767.	7.2	636
1495	An Energy Storage Principle using Bipolar Porous Polymeric Frameworks. Angewandte Chemie - International Edition, 2012, 51, 7850-7854.	7.2	177
1496	Carbonâ€Coated Singleâ€Crystal LiMn₂O₄ Nanoparticle Clusters as Cathode Material for Highâ€Energy and Highâ€Power Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2012, 51, 8748-8752.	7.2	307
1497	Nanoâ€Structured Phosphorus Composite as Highâ€Capacity Anode Materials for Lithium Batteries. Angewandte Chemie - International Edition, 2012, 51, 9034-9037.	7.2	282
1498	A New Piece in the Puzzle of Lithium/Air Batteries: Computational Study on the Chemical Stability of Propylene Carbonate in the Presence of Lithium Peroxide. Chemistry - A European Journal, 2012, 18, 3510-3520.	1.7	51
1499	Fabrication of High Energyâ€Density Hybrid Supercapacitors Using Electrospun V₂O₅ Nanofibers with a Selfâ€Supported Carbon Nanotube Network. ChemPlusChem, 2012, 77, 570-575.	1.3	125
1500	Nanocomposites of Ni(OH)₂/Reduced Graphene Oxides with Controllable Composition, Size, and Morphology: Performance Variations as Pseudocapacitor Electrodes. ChemPlusChem, 2012, 77, 807-816.	1.3	39
1501	Controlling Size, Amount, and Crystalline Structure of Nanoparticles Deposited on Graphenes for Highly Efficient Energy Conversion and Storage. ChemSusChem, 2012, 5, 709-715.	3.6	29
1502	On the Configuration of Supercapacitors for Maximizing Electrochemical Performance. ChemSusChem, 2012, 5, 818-841.	3.6	429
1503	Hollow Carbon Nanospheres with a High Rate Capability for Lithiumâ€Based Batteries. ChemSusChem, 2012, 5, 400-403.	3.6	215
1504	Improved Liâ€Storage Performance of Li₄Ti₅O₁₂ Coated with Cï£¿N Compounds Derived from Pyrolysis of Urea through a Lowâ€Temperature Approach. ChemSusChem, 2012, 5, 526-529.	3.6	52
1505	Phosphateâ€Functionalized Carbon Monoliths from Deep Eutectic Solvents and their Use as Monolithic Electrodes in Supercapacitors. ChemSusChem, 2012, 5, 1405-1409.	3.6	87

#	Article	IF	Citations
1506	Fe₃O₄ Anchored onto Helical Carbon Nanofibers as Highâ€Performance Anode in Lithiumâ€Ion Batteries. ChemSusChem, 2012, 5, 1397-1400.	3.6	39
1507	Efficient Inverted Polymer Solar Cells with Directly Patterned Active Layer and Silver Back Grating. Journal of Physical Chemistry C, 2012, 116, 7200-7206.	1.5	93
1508	Towards systems materials engineering. Nature Materials, 2012, 11, 560-563.	13.3	255
1509	Fe2O3 xerogel used as the anode material for lithium ion batteries with excellent electrochemical performance. Chemical Communications, 2012, 48, 7410.	2.2	49
1510	Chemically derived grapheneâ€“metal oxide hybrids as electrodes for electrochemical energy storage: pre-graphenization or post-graphenization?. Journal of Materials Chemistry, 2012, 22, 13947.	6.7	40
1511	Hybrid Multiferroic Nanostructure with Magneticâ€“Dielectric Coupling. Nano Letters, 2012, 12, 3025-3030.	4.5	53
1512	Enhancement of cyclability of urchin-like rutile TiO2 submicron spheres by nanopainting with carbon. Journal of Materials Chemistry, 2012, 22, 15981.	6.7	60
1513	Effect of lithium difluoro(oxalate)borate (LiDFOB) additive on the performance of high-voltage lithium-ion batteries. Journal of Applied Electrochemistry, 2012, 42, 291-296.	1.5	85
1514	Performance of nanotube-based electrodes from temperature-controlled electrophoretic deposition. Journal of Applied Electrochemistry, 2012, 42, 501-508.	1.5	2
1515	Self-assembly of highly uniform LiFePO4 hierarchical nanostructures by surfactant molecules in a new mixture medium. Ionics, 2012, 18, 541-547.	1.2	9
1516	LiCoO2 nanoplates with exposed (001) planes and high rate capability for lithium-ion batteries. Nano Research, 2012, 5, 395-401.	5.8	69
1517	One-step hydrothermal synthesis of ZnFe2O4 nano-octahedrons as a high capacity anode material for Li-ion batteries. Nano Research, 2012, 5, 477-485.	5.8	241
1518	Temperature dependent surface morphology and lithium diffusion kinetics of LiCoO2 cathode. Metals and Materials International, 2012, 18, 249-255.	1.8	21
1519	Characteristic behaviors on air-breathing direct methanol fuel cells. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1141-1144.	1.1	10
1520	Significantly enhanced rate capability in supercapacitors using carbide-derived carbons electrode with superior microstructure. Journal of Solid State Electrochemistry, 2012, 16, 1263-1270.	1.2	9
1521	Oleic acid-assisted preparation of LiMnPO4 and its improved electrochemical performance by Co doping. Journal of Solid State Electrochemistry, 2012, 16, 1271-1277.	1.2	26
1522	Resolution of the mechanism of CO electrooxidation on steady state and evaluation of the kinetic parameters for Pt and Ru electrodes. Journal of Solid State Electrochemistry, 2012, 16, 1893-1900.	1.2	8
1523	Nanostructured Fe2O3â€“graphene composite as a novel electrode material for supercapacitors. Journal of Solid State Electrochemistry, 2012, 16, 2095-2102.	1.2	174

#	Article	IF	Citations
1524	The synthesis of a hybrid grapheneâ€“nickel/manganese mixed oxide and its performance in lithium-ion batteries. Carbon, 2012, 50, 518-525.	5.4	105
1525	Nanosized Pt/IrO2 electrocatalyst prepared by modified polyol method for application as dual function oxygen electrode in unitized regenerative fuel cells. International Journal of Hydrogen Energy, 2012, 37, 5508-5517.	3.8	71
1526	Ultrafast lithium migration in surface modified LiFePO4 by heterogeneous doping. Applied Energy, 2012, 90, 323-328.	5.1	30
1527	Carbon nanotube (CNT)-based composites as electrode material for rechargeable Li-ion batteries: A review. Composites Science and Technology, 2012, 72, 121-144.	3.8	432
1528	Charge carrier density in Li-intercalated graphene. Chemical Physics Letters, 2012, 534, 29-33.	1.2	37
1529	Facile synthesis route to highly crystalline mesoporous Î³-MnO2 nanospheres. Electrochemistry Communications, 2012, 14, 32-35.	2.3	26
1530	Composite gel polymer electrolytes containing core-shell structured SiO2(Li+) particles for lithium-ion polymer batteries. Electrochemistry Communications, 2012, 17, 18-21.	2.3	101
1531	Mesoporous LiFePO4 as a cathode material for rechargeable lithium ion batteries. Electrochemistry Communications, 2012, 17, 60-62.	2.3	30
1532	Magnesium cobalt silicate materials for reversible magnesium ion storage. Electrochimica Acta, 2012, 66, 75-81.	2.6	77
1533	Electrochemical behaviors of porous SnO2â€“Sn/C composites derived from pyrolysis of SnO2/poly(vinylidene fluoride). Electrochimica Acta, 2012, 66, 204-209.	2.6	89
1534	Electrochemical studies on electrospun Li(Li1/3Ti5/3)O4 grains as an anode for Li-ion batteries. Electrochimica Acta, 2012, 67, 33-40.	2.6	35
1535	An environment-friendly route to synthesize reduced graphene oxide as a supercapacitor electrode material. Electrochimica Acta, 2012, 69, 364-370.	2.6	81
1536	Three-dimensional sponge-like architectured cupric oxides as high-power and long-life anode material for lithium rechargeable batteries. Electrochimica Acta, 2012, 70, 98-104.	2.6	25
1537	Pitch modified hard carbons as negative materials for lithium-ion batteries. Electrochimica Acta, 2012, 74, 1-7.	2.6	63
1538	Hollow nanotubular SiOx templated by cellulose fibers for lithium ion batteries. Electrochimica Acta, 2012, 74, 271-274.	2.6	67
1539	Fine tuning of the supercapacitive performance of nanoporous carbon electrodes with different pore diameters. Electrochimica Acta, 2012, 77, 256-261.	2.6	30
1540	Watching nanoparticle kinetics in liquid. Materials Today, 2012, 15, 140-147.	8.3	35
1541	Fabrication and characterization of single walled nanotube supercapacitor electrodes with uniform pores using electrophoretic deposition. Materials Chemistry and Physics, 2012, 134, 68-73.	2.0	16

#	Article	IF	Citations
1542	Electrochemical properties of nano-sized LiNi1/3Co1/3Mn1/3O2 powders in the range from 56 to 101 nm prepared by flame spray pyrolysis. Materials Chemistry and Physics, 2012, 134, 254-259.	2.0	23
1543	An activated microporous carbon prepared from phenol-melamine-formaldehyde resin for lithium ion battery anode. Materials Research Bulletin, 2012, 47, 2045-2050.	2.7	33
1544	Template-directed preparation of two-layer porous NiO film via hydrothermal synthesis for lithium ion batteries. Materials Research Bulletin, 2012, 47, 1987-1990.	2.7	27
1545	LixCo0.4Ni0.3Mn0.3O2 electrode materials: Electrochemical and structural studies. Materials Research Bulletin, 2012, 47, 1936-1941.	2.7	18
1546	Enhanced electrochemical properties of nano-Li3PO4 coated on the LiMn2O4 cathode material for lithium ion battery at 55Â°C. Materials Letters, 2012, 66, 168-171.	1.3	57
1547	Synthesis of novel pompon-like porous SnO2 and its application in lithium-ion battery. Materials Letters, 2012, 66, 193-195.	1.3	26
1548	Synthesis of carbon nanowires as electrochemical electrode materials. Materials Letters, 2012, 69, 55-58.	1.3	15
1549	Synthesis of mesoporous Î±-Ni(OH)2 for high-performance supercapacitors. Materials Letters, 2012, 78, 99-101.	1.3	35
1550	A novel conversion of converter sludge into amorphous multi-doped FePO4 cathode material for lithium ion batteries. Scripta Materialia, 2012, 67, 221-224.	2.6	15
1551	A facile production of microporous carbon spheres and their electrochemical performance in EDLC. Journal of Physics and Chemistry of Solids, 2012, 73, 385-390.	1.9	35
1552	Three-dimensional bicontinuous nanoporous Au/polyaniline hybrid films for high-performance electrochemical supercapacitors. Journal of Power Sources, 2012, 197, 325-329.	4.0	100
1553	Nanotextured gold coatings on carbon nanofiber scaffolds as ultrahigh surface-area electrodes. Journal of Power Sources, 2012, 198, 393-401.	4.0	22
1554	Facile synthesis of porous LiMn2O4 spheres as positive electrode for high-power lithium ion batteries. Journal of Power Sources, 2012, 198, 251-257.	4.0	122
1555	Nano LiMn2O4 as cathode material of high rate capability for lithium ion batteries. Journal of Power Sources, 2012, 198, 308-311.	4.0	111
1556	Electrochemical and rate performance study of high-voltage lithium-rich composition: Li1.2Mn0.525Ni0.175Co0.1O2. Journal of Power Sources, 2012, 199, 220-226.	4.0	210
1557	Cooperative enhancement of capacities in nanostructured SnSb/carbon nanotube network nanocomposite as anode for lithium ion batteries. Journal of Power Sources, 2012, 201, 288-293.	4.0	38
1558	Single crystalline lithium titanate nanostructure with enhanced rate performance for lithium ion battery. Journal of Power Sources, 2012, 202, 246-252.	4.0	57
1559	Reduced graphene oxideâ€“nickel oxide composite as high performance electrode materials for supercapacitors. Journal of Power Sources, 2012, 203, 243-249.	4.0	115

#	Article	IF	Citations
1560	Synergism of ionic liquid and surfactant molecules in the growth of LiFePO4 nanorods and the electrochemical performances. Journal of Power Sources, 2012, 202, 384-388.	4.0	21
1561	Percolating networks of TiO2 nanorods and carbon for high power lithium insertion electrodes. Journal of Power Sources, 2012, 206, 301-309.	4.0	81
1562	Gold-coated porous silicon films as anodes for lithium ion batteries. Journal of Power Sources, 2012, 205, 426-432.	4.0	123
1563	High performance of LiNi0.5Mn0.5O2 positive electrode boosted by ordered three-dimensional nanostructures. Journal of Power Sources, 2012, 206, 230-235.	4.0	14
1564	Electrochemical performance of the nanostructured biotemplated V2O5 cathode for lithium-ion batteries. Journal of Power Sources, 2012, 206, 282-287.	4.0	70
1565	Young's modulus of polycrystalline Li12Si7 using nanoindentation testing. Journal of Power Sources, 2012, 211, 1-3.	4.0	25
1566	Three-dimensional porous nano-Ni supported silicon composite film for high-performance lithium-ion batteries. Journal of Power Sources, 2012, 213, 106-111.	4.0	88
1567	Stable high areal capacity lithium-ion battery anodes based on three-dimensional Niâ€“Sn nanowire networks. Journal of Power Sources, 2012, 211, 46-51.	4.0	79
1568	General synthesis and electrochemical performance of TiO2-based microspheres with core-shell structure. Materials Letters, 2012, 84, 143-146.	1.3	10
1569	Lithium storage performance in ordered mesoporous MoS2 electrode material. Microporous and Mesoporous Materials, 2012, 151, 418-423.	2.2	173
1570	Lithium diffusion behavior and improved high rate capacity of LiNi1/3Co1/3Mn1/3O2 as cathode material for lithium batteries. Solid State Ionics, 2012, 207, 50-56.	1.3	57
1571	Cation conductivity in dried poly(4-styrene sulfonate) poly(diallydimethylammonium chloride) based polyelectrolyte complexes. Solid State Ionics, 2012, 214, 13-18.	1.3	10
1572	Solid polymer electrolyte based on sulfonated polysulfone membranes and acidic silica for direct methanol fuel cells. Solid State Ionics, 2012, 216, 90-94.	1.3	32
1573	Zero-dimensional, one-dimensional, two-dimensional and three-dimensional nanostructured materials for advanced electrochemical energy devices. Progress in Materials Science, 2012, 57, 724-803.	16.0	892
1574	Effect of simultaneous etching and N-doping on the surface and electrochemical properties of AC. Journal of Industrial and Engineering Chemistry, 2012, 18, 116-122.	2.9	24
1575	Effect of surfactants on PANI morphologies and supercapacitive properties. Journal of the Korean Physical Society, 2012, 60, 1767-1771.	0.3	9
1576	Selective crystallization with preferred lithium-ion storage capability of inorganic materials. Nanoscale Research Letters, 2012, 7, 149.	3.1	32
1577	Titania Nanosheets Hierarchically Assembled on Carbon Nanotubes as Highâ€Rate Anodes for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2012, 18, 3132-3135.	1.7	43

#	Article	IF	Citations
1578	From Micro to Macro: Access to Longâ€Range Li⁺ Diffusion Parameters in Solids via Microscopic ^{6,â€‰7}Li Spinâ€Alignment Echo NMR Spectroscopy. ChemPhysChem, 2012, 13, 53-65.	1.0	138
1579	Facile Synthesis of Porous Mn₃O₄ NanoÂcrystalâ€“Graphene Nanocomposites for Electrochemical Supercapacitors. European Journal of Inorganic Chemistry, 2012, 2012, 628-635.	1.0	115
1580	Towards Ultrathick Battery Electrodes: Aligned Carbon Nanotube â€“ Enabled Architecture. Advanced Materials, 2012, 24, 533-537.	11.1	257
1581	Reversible Control of Electrochemical Properties Using Thermallyâ€Responsive Polymer Electrolytes. Advanced Materials, 2012, 24, 886-889.	11.1	54
1582	A Percolating Membrane with Superior Polarization and Power Retention for Rechargeable Energy Storage. Advanced Materials, 2012, 24, 76-81.	11.1	7
1583	Carbon Nanotubeâ€Enhanced Growth of Silicon Nanowires as an Anode for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Energy Materials, 2012, 2, 87-93.	10.2	90
1584	Sulphonated poly ether ether ketone/aminoâ€diphenylsilandiol composite electrolyte for PEM fuel cells. Journal of Applied Polymer Science, 2012, 124, 2610-2614.	1.3	1
1586	LiNi_{0.5}Mn_{1.5}O₄ Hollow Structures as Highâ€Performance Cathodes for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2012, 51, 239-241.	7.2	340
1587	Facile synthesis of LiCoO2 nanowires with high electrochemical performance. Nano Research, 2012, 5, 27-32.	5.8	68
1588	Cycling Characteristics of Lithium Powder Polymer Batteries Assembled with Composite Gel Polymer Electrolytes and Lithium Powder Anode. Advanced Functional Materials, 2013, 23, 1019-1027.	7.8	141
1589	Phosphorous Pentasulfide as a Novel Additive for Highâ€Performance Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2013, 23, 1064-1069.	7.8	397
1590	Preparation and characterization of polypyrrole/modified multiwalled carbon nanotube nanocomposites polymerized in situ in the presence of barium titanate. Journal of Applied Polymer Science, 2013, 128, 698-705.	1.3	11
1591	Electrodeposition of Ag nanoparticles onto bamboo-type TiO2 nanotube arrays to improve their lithium-ion intercalation performance. Ionics, 2013, 19, 879-885.	1.2	24
1592	Self-assembly and electrochemical property of an amphiphilic rod-coil-rod consisting of tetraaniline and poly(ethylene glycol) blocks. Macromolecular Research, 2013, 21, 815-820.	1.0	14
1593	Carbon fiber paper supported hybrid nanonet/nanoflower nickel oxide electrodes for high-performance pseudo-capacitors. Journal of Materials Chemistry A, 2013, 1, 7709.	5.2	66
1594	TiO2 nanoparticles on nitrogen-doped graphene as anode material for lithium ion batteries. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	32
1595	Ion conducting properties of poly(ethylene oxide)-based electrolytes incorporating amorphous silica attached with imidazolium salts. Research on Chemical Intermediates, 2013, 39, 1409-1416.	1.3	3
1596	Synthesis and characterization of Li4Ti5O12/graphene composite as anode material with enhanced electrochemical performance. Ionics, 2013, 19, 717-723.	1.2	20

#	Article	IF	Citations
1597	Watermelon used as a novel carbon source to improve the rate performance of iron oxide electrodes for lithium ion batteries. Electrochimica Acta, 2013, 102, 306-311.	2.6	18
1598	Characterization of electrolytic deposited Î±-Fe2O3 thin films on stainless steel as anodes for Li-ion batteries. Surface and Coatings Technology, 2013, 216, 52-59.	2.2	6
1599	Preparation of hollow Zn2SnO4 boxes for advanced lithium-ion batteries. RSC Advances, 2013, 3, 14480.	1.7	62
1600	Carbon nanotube sponges as conductive networks for supercapacitor devices. Nano Energy, 2013, 2, 1025-1030.	8.2	61
1601	TiO₂(B)/Anatase Composites Synthesized by Spray Drying as High Performance Negative Electrode Material in Liâ€Ion Batteries. ChemSusChem, 2013, 6, 1312-1315.	3.6	33
1602	Nano-Li 4 Ti 5 O 12 with high rate performance synthesized by a glycerol assisted hydrothermal method. Journal of Power Sources, 2013, 243, 661-667.	4.0	54
1603	Morphology-Dependent Enhancement of the Pseudocapacitance of Template-Guided Tunable Polyaniline Nanostructures. Journal of Physical Chemistry C, 2013, 117, 15009-15019.	1.5	103
1604	Highly Conductive and Strainâ€Released Hybrid Multilayer Ge/Ti Nanomembranes with Enhanced Lithiumâ€Ionâ€Storage Capability. Advanced Materials, 2013, 25, 539-544.	11.1	125
1605	Rapid, microwave-assisted synthesis of battery-grade lithium titanate (LTO). RSC Advances, 2013, 3, 15618.	1.7	13
1606	Well-distributed TiO2 nanocrystals on reduced graphene oxides as high-performance anode materials for lithium ion batteries. RSC Advances, 2013, 3, 13696.	1.7	44
1607	Li diffusion through doped and defected graphene. Physical Chemistry Chemical Physics, 2013, 15, 15128.	1.3	86
1608	Energy Storage on Ultrahigh Surface Area Activated Carbon Fibers Derived from PMIA. ChemSusChem, 2013, 6, 1406-1413.	3.6	19
1609	Conformal Coatings of Cyclizedâ€PAN for Mechanically Resilient Si nanoâ€Composite Anodes. Advanced Energy Materials, 2013, 3, 697-702.	10.2	134
1610	Cellulose-based Li-ion batteries: a review. Cellulose, 2013, 20, 1523-1545.	2.4	262
1611	Titanium pyrophosphate hexagonal nanoplates for electrochemical lithium storage. RSC Advances, 2013, 3, 13137.	1.7	6
1612	Tunable hierarchical macro/mesoporous gold microwires fabricated by dual-templating and dealloying processes. Nanoscale, 2013, 5, 7849.	2.8	40
1613	Hierarchical composites of polyanilineâ€“graphene nanoribbonsâ€“carbon nanotubes as electrode materials in all-solid-state supercapacitors. Nanoscale, 2013, 5, 7312.	2.8	176
1614	Nano- and microstructuration of supramolecular materials driven by H-bonded uracilÂ·2,6-diamidopyridine complexes. Nanoscale, 2013, 5, 8837.	2.8	31

#	Article	IF	Citations
1615	Graphene/polypyrrole nanofiber nanocomposite as electrode material for electrochemical supercapacitor. Polymer, 2013, 54, 1033-1042.	1.8	161
1616	Managing voids of Si anodes in lithium ion batteries. Nanoscale, 2013, 5, 8864.	2.8	52
1617	A Study of Pt Dissolution during Formic Acid Oxidation. ACS Catalysis, 2013, 3, 1709-1718.	5.5	36
1618	Synthesis and characterization of Li2FeP2O7/C nanocomposites as cathode materials for Li-ion batteries. Electrochimica Acta, 2013, 103, 219-225.	2.6	37
1619	3D porous micro/nanostructured interconnected metal/metal oxide electrodes for high-rate lithium storage. RSC Advances, 2013, 3, 432-437.	1.7	37
1620	Synthesis and characterization of self-bridged silver vanadium oxide/CNTs composite and its enhanced lithium storage performance. Nanoscale, 2013, 5, 1026-1033.	2.8	30
1621	Investigation of Modified Graphene for Energy Storage Applications. ACS Applied Materials & Interfaces, 2013, 5, 7881-7885.	4.0	35
1622	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Li</mml:mi><mml:mo>+</mml:mo></mml:msup></mml:math>Transport in Poly(Ethylene Oxide) Based Electrolytes: Neutron Scattering, Dielectric Spectroscopy, and Molecular Dynamics Simulations. Physical Review Letters, 2013, 111, 018301.	2.9	71
1623	Highly Sensitive SERS Detection of Hg²⁺ Ions in Aqueous Media Using Gold Nanoparticles/Graphene Heterojunctions. ACS Applied Materials & Interfaces, 2013, 5, 7072-7078.	4.0	153
1624	Hierarchical nanostructured coreâ€“shell Sn@C nanoparticles embedded in graphene nanosheets: spectroscopic view and their application in lithium ion batteries. Physical Chemistry Chemical Physics, 2013, 15, 3535.	1.3	113
1625	Nanocomposite of Polyaniline Nanorods Grown on Graphene Nanoribbons for Highly Capacitive Pseudocapacitors. ACS Applied Materials & Interfaces, 2013, 5, 6622-6627.	4.0	171
1626	ZnO/graphene nanocomposite fabricated by high energy ball milling with greatly enhanced lithium storage capability. Electrochemistry Communications, 2013, 34, 312-315.	2.3	76
1628	The development of mixture, alloy, and core-shell nanocatalysts with nanomaterial supports for energy conversion in low-temperature fuel cells. Nano Energy, 2013, 2, 636-676.	8.2	246
1629	TiO2/graphene sandwich paper as an anisotropic electrode for high rate lithium ion batteries. Nanoscale, 2013, 5, 7780.	2.8	63
1630	Electrocatalysis at Restructured Metal and Alloy Surfaces. ACS Symposium Series, 2013, , 265-294.	0.5	1
1631	Porous Co3O4 nanorods as superior electrode material for supercapacitors and rechargeable Li-ion batteries. Journal of Applied Electrochemistry, 2013, 43, 995-1003.	1.5	36
1632	Hydrothermal and soft-templating synthesis of mesoporous NiCo2O4 nanomaterials for high-performance electrochemical capacitors. Journal of Applied Electrochemistry, 2013, 43, 903-910.	1.5	35
1633	Electrochemical performance of conducting polymer and its nanocomposites prepared by chemical vapor phase polymerization method. Journal of Materials Science: Materials in Electronics, 2013, 24, 2245-2253.	1.1	25

#	Article	IF	Citations
1634	Preparation and properties of coke powder activated carbon/Î±-Co(OH)2 composite electrode materials. Journal of Materials Science: Materials in Electronics, 2013, 24, 2473-2478.	1.1	5
1635	One-step solid state reaction to selectively fabricate cubic and tetragonal CuFe2O4 anode material for high power lithium ion batteries. Electrochimica Acta, 2013, 102, 51-57.	2.6	124
1636	Factors influencing the synthesis and the post-modification of PEGylated pentafluorophenyl acrylate containing copolymers. European Polymer Journal, 2013, 49, 3060-3071.	2.6	27
1637	Sandwich-Stacked SnO₂/Cu Hybrid Nanosheets as Multichannel Anodes for Lithium Ion Batteries. ACS Nano, 2013, 7, 6948-6954.	7.3	99
1638	Controlled synthesis of hierarchical Co_xMn_{3â^'x}O₄array micro-/nanostructures with tunable morphology and composition as integrated electrodes for lithium-ion batteries. Energy and Environmental Science, 2013, 6, 2664-2671.	15.6	265
1639	Morphology-control synthesis and electrochemical performance of titanate and anatase TiO2. Journal of Alloys and Compounds, 2013, 578, 345-348.	2.8	6
1640	Understanding electrode materials of rechargeable lithium batteries via DFT calculations. Progress in Natural Science: Materials International, 2013, 23, 256-272.	1.8	68
1641	Enhanced high rate performance of Î±-Fe2O3 nanotubes with alginate binder as a conversion anode. RSC Advances, 2013, 3, 15132.	1.7	46
1642	Solid-State High Performance Flexible Supercapacitors Based on Polypyrrole-MnO2-Carbon Fiber Hybrid Structure. Scientific Reports, 2013, 3, 2286.	1.6	259
1643	Surface engineering of sponge-like silicon particles for high-performance lithium-ion battery anodes. Physical Chemistry Chemical Physics, 2013, 15, 7045.	1.3	23
1644	Functionalized Graphene Hydrogelâ€Based Highâ€Performance Supercapacitors. Advanced Materials, 2013, 25, 5779-5784.	11.1	577
1645	Perspective: hybrid systems combining electrostatic and electrochemical nanostructures for ultrahigh power energy storage. Energy and Environmental Science, 2013, 6, 2578.	15.6	32
1646	Effect of additives on the structure and electrochemical performance of mesoporous nickel hydroxide. Ionics, 2013, 19, 651-656.	1.2	5
1647	Spinel LiNi0.5Mn1.5O4 cathode for rechargeable lithiumion batteries: Nano vs micro, ordered phase (P4332) vs disordered phase (Fd $ar 3$ m). Nano Research, 2013, 6, 679-687.	5.8	126
1648	Facile fabrication of mesoporous manganese oxides as advanced electrode materials for supercapacitors. Journal of Solid State Electrochemistry, 2013, 17, 2579-2588.	1.2	17
1649	Model Ge microstructures as anodes for Li-ion batteries. Journal of Solid State Electrochemistry, 2013, 17, 3015-3020.	1.2	8
1650	Electrochemical performance of LiMn2O4 microcubes prepared by a self-templating route. Journal of Solid State Electrochemistry, 2013, 17, 2589-2594.	1.2	8
1651	Enhancing the electrochemical performance of Li1.2Ni0.2Mn0.6O2 by surface modification with nickelâ€“manganese composite oxide. Journal of Solid State Electrochemistry, 2013, 17, 2087-2093.	1.2	15

#	Article	IF	Citations
1652	Nitric acid oxidation of ordered mesoporous carbons for use in electrochemical supercapacitors. Journal of Solid State Electrochemistry, 2013, 17, 2223-2233.	1.2	33
1654	Multifunctional CNTâ€Polymer Composites for Ultraâ€Tough Structural Supercapacitors and Desalination Devices. Advanced Materials, 2013, 25, 6625-6632.	11.1	140
1655	The Use of an Emulsion Templated Microcellular Poly(dicyclopentadieneâ€coâ€norbornene) Membrane as a Separator in Lithiumâ€Ion Batteries. Macromolecular Rapid Communications, 2013, 34, 581-587.	2.0	42
1656	Electrocatalysis in Fuel Cells. Lecture Notes in Energy, 2013, , .	0.2	85
1657	A class of sp3 boron-based single-ion polymeric electrolytes for lithium ion batteries. RSC Advances, 2013, 3, 14934.	1.7	34
1658	Flame synthesis of carbon nanotubes and few-layer graphene on metal-oxide spinel powders. Carbon, 2013, 63, 478-486.	5.4	35
1659	The effect of ion energy on the surface morphology of platinum film under high-frequency ion plasma sputtering. Technical Physics Letters, 2013, 39, 130-133.	0.2	3
1660	Nonaqueous Lithiumâ€Ion Capacitors with High Energy Densities using Trigolâ€Reduced Graphene Oxide Nanosheets as Cathodeâ€Active Material. ChemSusChem, 2013, 6, 2240-2244.	3.6	96
1661	Nanostructured Electrodes for Highâ€Performance Pseudocapacitors. Angewandte Chemie - International Edition, 2013, 52, 1882-1889.	7.2	501
1662	Nanofluidic fuel cell. Journal of Power Sources, 2013, 242, 472-477.	4.0	36
1663	Hydrothermal Realization of a Hierarchical, Flowerlike MnWO₄@MWCNTs Nanocomposite with Enhanced Reversible Li Storage as a New Anode Material. Chemistry - an Asian Journal, 2013, 8, 2851-2858.	1.7	17
1664	Graphene/Fe₂O₃/SnO₂ Ternary Nanocomposites as a High-Performance Anode for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 8607-8614.	4.0	129
1665	Polyaniline/Polyoxometalate Hybrid Nanofibers as Cathode for Lithium Ion Batteries with Improved Lithium Storage Capacity. Journal of Physical Chemistry C, 2013, 117, 17376-17381.	1.5	86
1666	A three-dimensional graphene scaffold supported thin film silicon anode for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 10092.	5.2	88
1667	How Do Li Atoms Pass through the Al₂O₃ Coating Layer during Lithiation in Li-ion Batteries?. Journal of Physical Chemistry Letters, 2013, 4, 2681-2685.	2.1	166
1668	Conversion reactions for sodium-ion batteries. Physical Chemistry Chemical Physics, 2013, 15, 15876.	1.3	319
1669	The role of yttrium content in improving electrochemical performance of layered lithium-rich cathode materials for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 9760.	5.2	116
1670	First-Principles Study on the Synergistic Mechanism of SnO₂ and Graphene As a Lithium Ion Battery Anode. Journal of Physical Chemistry C, 2013, 117, 23-27.	1.5	53

#	Article	IF	Citations
1671	Quasiâ€Solidâ€State Rechargeable Lithiumâ€Ion Batteries with a Calix[4]quinone Cathode and Gel Polymer Electrolyte. Angewandte Chemie - International Edition, 2013, 52, 9162-9166.	7.2	271
1672	Self-Assembled Fe₃O₄ Nanoparticle Clusters as High-Performance Anodes for Lithium Ion Batteries via Geometric Confinement. Nano Letters, 2013, 13, 4249-4256.	4.5	334
1673	In situ one-step synthesis of a 3D nanostructured germaniumâ€“graphene composite and its application in lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 10798.	5.2	69
1674	Highly conductive NiCo2S4 urchin-like nanostructures for high-rate pseudocapacitors. Nanoscale, 2013, 5, 8879.	2.8	848
1675	Synthesis of uniform and superparamagnetic Fe3O4 nanocrystals embedded in a porous carbon matrix for a superior lithium ion battery anode. Journal of Materials Chemistry A, 2013, 1, 11011.	5.2	42
1676	Combined Microstructure and Heat Conduction Modeling of Heterogeneous Interfaces and Materials. Journal of Heat Transfer, 2013, 135, .	1.2	9
1677	The rods-like manganese dioxide films grown on nickel foam for electrochemical capacitor applications. Russian Journal of Electrochemistry, 2013, 49, 975-982.	0.3	3
1678	Rattle type Î±-Fe2O3 submicron spheres with a thin carbon layer for lithium-ion battery anodes. Journal of Materials Chemistry A, 2013, 1, 10107.	5.2	31
1679	Hierarchically structured graphene-based supercapacitor electrodes. RSC Advances, 2013, 3, 21183.	1.7	59
1680	Synthesis of Highly Stable Sub-8 nm TiO₂ Nanoparticles and Their Multilayer Electrodes of TiO₂/MWNT for Electrochemical Applications. Nano Letters, 2013, 13, 4610-4619.	4.5	64
1681	Bisamide based non-nucleophilic electrolytes for rechargeable magnesium batteries. RSC Advances, 2013, 3, 16330.	1.7	164
1682	Uniform hierarchical MoO2/carbon spheres with high cycling performance for lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 12038.	5.2	62
1683	Supercapacitive property of metalâ€“organic-frameworks with different pore dimensions and morphology. Microporous and Mesoporous Materials, 2013, 171, 53-57.	2.2	212
1684	Fabrication and characterization of electrochemical double layer capacitors using ionic liquid-based gel polymer electrolyte with chemically treated activated charcoal electrodes. Journal of Solid State Electrochemistry, 2013, 17, 713-726.	1.2	11
1685	Grapheneâ€Wrapped MnO₂â€“Graphene Nanoribbons as Anode Materials for Highâ€Performance Lithium Ion Batteries. Advanced Materials, 2013, 25, 6298-6302.	11.1	355
1686	Nanotubes and Peapods. , 2013, , 925-940.		0
1687	Carbon nanomaterials supported Ni(OH)2/NiO hybrid flower structure for supercapacitor. Electrochimica Acta, 2013, 109, 370-380.	2.6	104
1688	Amylopectin Wrapped Graphene Oxide/Sulfur for Improved Cyclability of Lithiumâ€“Sulfur Battery. ACS Nano, 2013, 7, 8801-8808.	7.3	181

#	Article	IF	Citations
1689	Flexible Nanodielectric Materials with High Permittivity for Power Energy Storage. Advanced Materials, 2013, 25, 6334-6365.	11.1	1,204
1690	Carbon-Coated Feâ€“Mnâ€“O Composites as Promising Anode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 9470-9477.	4.0	48
1691	A facile one-step method to prepare size controlled Fe3O4 submicro/nanoparticles. Materials Letters, 2013, 96, 27-30.	1.3	6
1692	Carbon nanocage supported synthesis of V2O5 nanorods and V2O5/TiO2 nanocomposites for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 12568.	5.2	39
1693	Solvothermal Synthesis of Monodisperse LiFePO₄ Micro Hollow Spheres as High Performance Cathode Material for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 8961-8967.	4.0	62
1694	Cableâ€Type Supercapacitors of Threeâ€Dimensional Cotton Thread Based Multiâ€Grade Nanostructures for Wearable Energy Storage. Advanced Materials, 2013, 25, 4925-4931.	11.1	267
1695	Direct Atomicâ€Resolution Observation of Two Phases in the Li_{1.2}Mn_{0.567}Ni_{0.166}Co_{0.067}O₂ Cathode Material for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2013, 52, 5969-5973.	7.2	242
1696	Controlled synthesis of Î±-FeOOH nanorods and their transformation to mesoporous Î±-Fe2O3, Fe3O4@C nanorods as anodes for lithium ion batteries. RSC Advances, 2013, 3, 15316.	1.7	66
1697	Electrochemical performance of graphene and copper oxide composites synthesized from a metalâ€“organic framework (Cu-MOF). RSC Advances, 2013, 3, 19051.	1.7	46
1698	Electroplating and magnetostructural characterization of multisegmented Co54Ni46/Co85Ni15 nanowires from single electrochemical bath in anodic alumina templates. Nanoscale Research Letters, 2013, 8, 263.	3.1	54
1699	Micro-ultracapacitors with highly doped silicon nanowires electrodes. Nanoscale Research Letters, 2013, 8, 38.	3.1	61
1700	Interface transport properties in ion-gated nano-sheets. European Physical Journal: Special Topics, 2013, 222, 1185-1201.	1.2	9
1701	On-chip micro-supercapacitors for operation in a wide temperature range. Electrochemistry Communications, 2013, 36, 53-56.	2.3	110
1702	Supercapacitors based on 3D network of activated carbon nanowhiskers wrapped-on graphitized electrospun nanofibers. Journal of Power Sources, 2013, 243, 880-886.	4.0	50
1703	3-D ordered bimodal porous carbon/nickel oxide hybrid electrodes for supercapacitors. Synthetic Metals, 2013, 177, 105-109.	2.1	2
1704	A Review on Li-S Batteries as a High Efficiency Rechargeable Lithium Battery. Journal of the Electrochemical Society, 2013, 160, A1256-A1263.	1.3	251
1705	Tobacco mosaic virus: A biological building block for micro/nano/bio systems. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	0.9	62
1706	High rate capability caused by surface cubic spinels in Li-rich layer-structured cathodes for Li-ion batteries. Scientific Reports, 2013, 3, 3094.	1.6	192

#	Article	IF	Citations
1707	Effects of Ni vacancies and crystallite size on the O 1s and Ni 2p x-ray absorption spectra of nanocrystalline NiO. Journal of Physics Condensed Matter, 2013, 25, 495506.	0.7	27
1708	Nb2O5-carbon core-shell nanocomposite as anode material for lithium ion battery. Journal of Energy Chemistry, 2013, 22, 357-362.	7.1	62
1710	Ordered mesoporous porphyrinic carbons with very high electrocatalytic activity for the oxygen reduction reaction. Scientific Reports, 2013, 3, 2715.	1.6	282
1711	Ultrahigh capacitive performance from both Co(OH)2/graphene electrode and K3Fe(CN)6 electrolyte. Scientific Reports, 2013, 3, 2986.	1.6	158
1712	Synthesis of poly(N-alkyl-3,4-dihydrothieno[3,4-b][1,4]oxazine) derivatives and investigation of their supercapacitive performances for charge storage applications. Electrochimica Acta, 2013, 90, 623-633.	2.6	43
1713	Capacitive Properties and Structure of RuO2-HfO2 Films Prepared by Thermal Decomposition Method. Physics Procedia, 2013, 50, 416-420.	1.2	11
1714	Carbon-supported Ni@NiO/Al2O3 integrated nanocomposite derived from layered double hydroxide precursor as cycling-stable anode materials for lithium-ion batteries. Electrochimica Acta, 2013, 108, 429-434.	2.6	37
1715	Temperature dependent local structure of LiCoO2 nanoparticles determined by Co K-edge X-ray absorption fine structure. Journal of Power Sources, 2013, 229, 272-276.	4.0	26
1716	Simple synthesis of hierarchically structured partially graphitized carbon by emulsion/block-copolymer co-template method for high power supercapacitors. Carbon, 2013, 64, 391-402.	5.4	94
1717	Glucose oxidase-loaded amorphous FeNiâ€“Pt fan-shaped nanostructures and their electrochemical behaviors. Colloids and Surfaces B: Biointerfaces, 2013, 111, 726-731.	2.5	3
1718	Ruthenium oxide - single walled carbon nanotube composite based high energy supercapacitor. , 2013, , .		2
1719	Three-dimensional ordered macroporous MnO2/carbon nanocomposites as high-performance electrodes for asymmetric supercapacitors. Physical Chemistry Chemical Physics, 2013, 15, 19730.	1.3	101
1720	Surface functional groups of carbon nanotubes to manipulate capacitive behaviors. Nanoscale, 2013, 5, 12304.	2.8	38
1721	Covalent functionalization based heteroatom doped graphene nanosheet as a metal-free electrocatalyst for oxygen reduction reaction. Nanoscale, 2013, 5, 12255.	2.8	73
1722	Electrochemical performance of carbon-coated Li3V2(PO4)3 as a cathode material for asymmetric hybrid capacitors. Electrochimica Acta, 2013, 107, 59-65.	2.6	34
1723	Three-dimensional aligned mesoporous carbon nanotubes filled with Co3O4 nanoparticles for Li-ion battery anode applications. Electrochimica Acta, 2013, 105, 110-114.	2.6	47
1724	Morphology-controlled fabrication of hierarchical mesoporous NiCo2O4 micro-/nanostructures and their intriguing application in electrochemical capacitors. RSC Advances, 2013, 3, 23709.	1.7	19
1725	Improved lithiumâ€“sulfur cells with a treated carbon paper interlayer. Physical Chemistry Chemical Physics, 2013, 15, 2291.	1.3	241

#	Article	IF	Citations
1726	Integrated Solid/Nanoporous Copper/Oxide Hybrid Bulk Electrodes for High-performance Lithium-Ion Batteries. Scientific Reports, 2013, 3, 2878.	1.6	53
1727	Hoop-Strong Nanotubes for Battery Electrodes. ACS Nano, 2013, 7, 8295-8302.	7.3	52
1728	Rambutan-Like FeCO₃ Hollow Microspheres: Facile Preparation and Superior Lithium Storage Performances. ACS Applied Materials & Interfaces, 2013, 5, 11212-11217.	4.0	121
1729	Layered sodium titanate nanostructures as a new electrode for high energy density supercapacitors. Electrochimica Acta, 2013, 113, 141-148.	2.6	44
1730	Hierarchical Hollow Spheres of Fe₂O₃@Polyaniline for Lithium Ion Battery Anodes. Advanced Materials, 2013, 25, 6250-6255.	11.1	311
1731	Mesoporous N-containing carbon nanosheets towards high-performance electrochemical capacitors. Carbon, 2013, 64, 141-149.	5.4	82
1732	New Synthesis of MCM-48 Nanospheres and Facile Replication to Mesoporous Platinum Nanospheres as Highly Active Electrocatalysts for the Oxygen Reduction Reaction. Chemistry of Materials, 2013, 25, 4269-4277.	3.2	60
1733	Combined Surface and Electrochemical Study of the Lithiation/Delithiation Mechanism of the Iron Oxide Thin-Film Anode for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2013, 117, 21651-21661.	1.5	59
1734	Raising the performance of a 4 V supercapacitor based on an EMIBF4â€“single walled carbon nanotube nanofluid electrolyte. Chemical Communications, 2013, 49, 10727.	2.2	41
1735	Coating of Al2O3 on layered Li(Mn1/3Ni1/3Co1/3)O2 using CO2 as green precipitant and their improved electrochemical performance for lithium ion batteries. Journal of Energy Chemistry, 2013, 22, 468-476.	7.1	10
1736	Nanotechnology and clean energy: sustainable utilization and supply of critical materials. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	20
1737	Mesoporous Fe2O3 nanoparticles as high performance anode materials for lithium-ion batteries. Electrochemistry Communications, 2013, 29, 17-20.	2.3	117
1738	Novel Synthesis and Characterization of Nanostructured Materials. Engineering Materials, 2013, , .	0.3	42
1739	Yolkâ€“Shell Structure of Polyaniline-Coated Sulfur for Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2013, 135, 16736-16743.	6.6	734
1740	Mechanisms Underlying Ionic Mobilities in Nanocomposite Polymer Electrolytes. ACS Macro Letters, 2013, 2, 1001-1005.	2.3	40
1741	High Volumetric Capacity Silicon-Based Lithium Battery Anodes by Nanoscale System Engineering. Nano Letters, 2013, 13, 5578-5584.	4.5	170
1742	Design and synthesis of hierarchical porous electrode with nanocomposites of MnO2 thin layer encapsulated carbon nanotubes and its superb charge storage characteristics. Electrochimica Acta, 2013, 113, 373-381.	2.6	8
1743	Porous CoO/C polyhedra as anode material for Li-ion batteries. Electrochimica Acta, 2013, 108, 506-511.	2.6	51

#	Article	IF	Citations
1744	Visualization and Quantification of Electrochemical and Mechanical Degradation in Li Ion Batteries. Science, 2013, 342, 716-720.	6.0	571
1745	Long-range Li+ dynamics in the lithium argyrodite Li7PSe6 as probed by rotating-frame spinâ€“lattice relaxation NMR. Physical Chemistry Chemical Physics, 2013, 15, 7123.	1.3	70
1746	Synthesis of Cobalt Phosphides and Their Application as Anodes for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 1093-1099.	4.0	178
1747	Electrochemical Properties of Nanostructured Copper Hydroxysulfate Mineral Brochantite upon Reaction with Lithium. Nano Letters, 2013, 13, 6055-6063.	4.5	19
1748	Triboelectric nanogenerator built inside shoe insole for harvesting walking energy. Nano Energy, 2013, 2, 856-862.	8.2	337
1749	Electrospun Three-Dimensional Mesoporous Silicon Nanofibers as an Anode Material for High-Performance Lithium Secondary Batteries. ACS Applied Materials & Interfaces, 2013, 5, 12005-12010.	4.0	82
1750	3D Cross-Linked Nanoweb Architecture of Binder-Free TiO₂ Electrodes for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 11525-11529.	4.0	64
1751	Solventless synthesis of an iron-oxide/graphene nanocomposite and its application as an anode in high-rate Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 15442.	5.2	48
1752	Solâ€“gel synthesis and impedance characteristics of networked nanocrystalline olivine cathode for Li-ion full cells. Journal of Materials Chemistry A, 2013, 1, 15397.	5.2	16
1753	Finite size effects on the structural progression induced by lithiation of V2O5: a combined diffraction and Raman spectroscopy study. Journal of Materials Chemistry A, 2013, 1, 15265.	5.2	80
1754	Self-healing chemistry enables the stable operation of silicon microparticle anodes for high-energy lithium-ion batteries. Nature Chemistry, 2013, 5, 1042-1048.	6.6	1,031
1755	One-pot synthesis of Fe2O3/graphene and its lithium-storage performance. Electrochimica Acta, 2013, 113, 212-217.	2.6	38
1756	Carbons for supercapacitors obtained by one-step pressure induced oxidation at low temperature. Carbon, 2013, 61, 278-283.	5.4	11
1757	Free standing acetylene black mesh to capture dissolved polysulfide in lithium sulfur batteries. Chemical Communications, 2013, 49, 11107.	2.2	74
1758	Electrochemical Reactivity with Lithium of Spinel-type ZnFe_{2â€“y}Cr_yO₄ (0 â‰¤ y â‰¤ 2). Journal of Physical Chemistry C, 2013, 117, 24213-24223.	1.5	7
1759	Covalent Bond Glued Sulfur Nanosheet-Based Cathode Integration for Long-Cycle-Life Liâ€“S Batteries. Nano Letters, 2013, 13, 6244-6250.	4.5	99
1760	Three-Dimensional Graphene Foam Supported Fe₃O₄ Lithium Battery Anodes with Long Cycle Life and High Rate Capability. Nano Letters, 2013, 13, 6136-6143.	4.5	738
1761	Double-Gyroid-Structured Functional Materials. Springer Theses, 2013, , .	0.0	42

#	Article	IF	Citations
1762	Towards ultrahigh volumetric capacitance: graphene derived highly dense but porous carbons for supercapacitors. Scientific Reports, 2013, 3, 2975.	1.6	541
1763	Carbon in Catalysis. Advances in Catalysis, 2013, 56, 103-185.	0.1	18
1764	Motion Charged Battery as Sustainable Flexible-Power-Unit. ACS Nano, 2013, 7, 11263-11271.	7.3	139
1765	Mesoporous Î²-MnO2/sulfur composite as cathode material for Liâ€“S batteries. Electrochimica Acta, 2013, 106, 307-311.	2.6	53
1766	Core-leaf onion-like carbon/MnO2 hybrid nano-urchins for rechargeable lithium-ion batteries. Carbon, 2013, 64, 230-236.	5.4	91
1767	Free-standing heterogeneous hybrid papers based on mesoporous Î³-MnO2 particles and carbon nanotubes for lithium-ion battery anodes. Journal of Power Sources, 2013, 244, 747-751.	4.0	50
1768	Transport properties of single TiO2 nanotubes. Applied Physics Letters, 2013, 103, 173108.	1.5	24
1769	Dimensionality and heat transport in Si-Ge superlattices. Applied Physics Letters, 2013, 102, .	1.5	47
1770	Fabrication of Macroscopically Flexible and Highly Porous 3D Semiconductor Networks from Interpenetrating Nanostructures by a Simple Flame Transport Approach. Particle and Particle Systems Characterization, 2013, 30, 775-783.	1.2	278
1771	In Situ Synchrotron Xâ€Ray Techniques for Realâ€Time Probing of Colloidal Nanoparticle Synthesis. Particle and Particle Systems Characterization, 2013, 30, 399-419.	1.2	65
1772	Thermodynamics and cell chemistry of room temperature sodium/sulfur cells with liquid and liquid/solid electrolyte. Journal of Power Sources, 2013, 243, 758-765.	4.0	160
1773	Hollow NiO nanotubes synthesized by bio-templates as the high performance anode materials of lithium-ion batteries. Electrochimica Acta, 2013, 114, 42-47.	2.6	93
1774	Flexible hierarchical nanocomposites based on MnO₂nanowires/CoAl hydrotalcite/carbon fibers for high-performance supercapacitors. RSC Advances, 2013, 3, 1045-1049.	1.7	75
1775	Electrochemical and structural characteristics of activated carbon-based electrodes modified via phosphoric acid. Microporous and Mesoporous Materials, 2013, 172, 131-135.	2.2	41
1776	Study on performance of PVDF piezoelectric film for the separator in Li-ion rechargeable cell. Science China Technological Sciences, 2013, 56, 2646-2648.	2.0	1
1777	Real-time in situ TEM studying the fading mechanism of tin dioxide nanowire electrodes in lithium ion batteries. Science China Technological Sciences, 2013, 56, 2630-2635.	2.0	23
1778	One-pot approach to synthesize PPy@S coreâ€“shell nanocomposite cathode for Li/S batteries. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	44
1779	Sulfur/graphitic hollow carbon sphere nano-composite as a cathode material for high-power lithium-sulfur battery. Nanoscale Research Letters, 2013, 8, 343.	3.1	27

#	Article	IF	Citations
1780	Tailoring the magnetic properties of ordered 50-nm-diameter CoNi nanowire arrays. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	29
1781	IR Spectra of Heterophase Systems xLiClO4-(1â€“x)(CH3)2SOâ€‰+â€‰Al2O3. Journal of Applied Spectroscopy, 2013, 80, 771-774.	0.3	2
1782	Interface Chemistry Guided Long-Cycle-Life Liâ€“S Battery. Nano Letters, 2013, 13, 4206-4211.	4.5	125
1783	Porous nickel cobaltite nanorods: desired morphology inherited from coordination precursors and improved supercapacitive properties. RSC Advances, 2013, 3, 15382.	1.7	27
1784	Solid lithium electrolyte-Li4Ti5O12 composites as anodes of lithium-ion batteries showing high-rate performance. Journal of Power Sources, 2013, 231, 177-185.	4.0	29
1785	Facile synthesis and superior supercapacitor performances of Ni2P/rGO nanoparticles. RSC Advances, 2013, 3, 4628.	1.7	137
1786	Cycling performance of lithium polymer cells assembled by in situ polymerization of a non-flammable ionic liquid monomer. Electrochimica Acta, 2013, 106, 460-464.	2.6	18
1787	Improved Nonaqueous Synthesis of TiO₂ for Dye-Sensitized Solar Cells. ACS Nano, 2013, 7, 8981-8989.	7.3	52
1788	Hierarchical TiO2 nanobelts@MnO2 ultrathin nanoflakes coreâ€“shell array electrode materials for supercapacitors. RSC Advances, 2013, 3, 14413.	1.7	98
1789	Layer Structured Î±-Fe₂O₃ Nanodisk/Reduced Graphene Oxide Composites as High-Performance Anode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 3932-3936.	4.0	129
1790	Superior electric storage in deâ€alloyed and anodic oxidized Tiâ€“Niâ€“Si glassy alloy ribbons. Physica Status Solidi - Rapid Research Letters, 2013, 7, 477-480.	1.2	13
1791	Synthesis, characterization and electrochemical performance of Li2FeSiO4/C for lithium-ion batteries. RSC Advances, 2013, 3, 408-412.	1.7	27
1792	Polymerâ€free Vertical Transfer of Silicon Nanowires and their Application to Energy Storage. ChemSusChem, 2013, 6, 2144-2148.	3.6	14
1793	Graphene-based in-plane micro-supercapacitors with high power and energy densities. Nature Communications, 2013, 4, 2487.	5.8	1,104
1795	Flexible free-standing grapheneâ€“TiO2 hybrid paper for use as lithium ion battery anode materials. Carbon, 2013, 51, 322-326.	5.4	156
1796	Fe3O4â€“carbon nanocomposites via a simple synthesis as anode materials for rechargeable lithium ion batteries. CrystEngComm, 2013, 15, 9849.	1.3	28
1797	Supercapacitor Operating At 200 Degrees Celsius. Scientific Reports, 2013, 3, 2572.	1.6	89
1798	Recent progress and remaining challenges in sulfur-based lithium secondary batteries â€“ a review. Chemical Communications, 2013, 49, 10545.	2.2	467

#	Article	IF	Citations
1799	Polyanilineâ€Coupled Multifunctional 2D Metal Oxide/Hydroxide Graphene Nanohybrids. Angewandte Chemie - International Edition, 2013, 52, 12105-12109.	7.2	117
1800	Ultraslow Li Exchange Processes in Diamagnetic Li₂ZrO₃ As Monitored by EXSY NMR. Journal of Physical Chemistry C, 2013, 117, 8114-8119.	1.5	41
1801	Engineering nanostructured materials for sustainable future. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 203-204.	0.8	0
1802	Tuning PANI nanostructure by driving force for diverse capacitance performance. RSC Advances, 2013, 3, 21315.	1.7	13
1803	High-Performance Supercapacitor Electrodes Based on Graphene Achieved by Thermal Treatment with the Aid of Nitric Acid. ACS Applied Materials & Interfaces, 2013, 5, 9656-9662.	4.0	87
1805	Fabrication of Supercapacitors using Carbon Microspheres Synthesized from Resorcinolâ€“Formaldehyde Resin. Energy Technology, 2013, 1, 332-337.	1.8	8
1806	Impact of Lithium-Ion Ordering on Surface Electronic States of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Li</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>CoO</mml:mi><mml:mn Physical Review Letters, 2013, 111, 126104.	7.9	29
1807	1-Dimensional confinement of porous polyethylenedioxythiophene using carbon nanofibers as a solid template: an efficient charge storage material with improved capacitance retention and cycle stability. RSC Advances, 2013, 3, 11877.	1.7	25
1808	Synthesis of Hollow and Hierarchical NiO Nanosheets Nanotubes and their Application as Supercapacitor Electrodes. Applied Mechanics and Materials, 0, 467, 215-220.	0.2	0
1809	Electrochemical Anodizing, Structural and Mechanical Characterization of Nanoporous Alumina Templates. Journal of Nano Research, 0, 25, 77-89.	0.8	16
1810	Nickel Oxide Coated on Pretreated MWCNTs as an Electrode for Supercapacitor. Advanced Materials Research, 0, 829, 654-658.	0.3	0
1811	High-performance symmetric electrochemical capacitor based on graphene foam and nanostructured manganese oxide. AIP Advances, 2013, 3, .	0.6	86
1812	Enhanced electrochemical performance of LiFePO4 cathode with the addition of fluoroethylene carbonate in electrolyte. Journal of Solid State Electrochemistry, 2013, 17, 811-816.	1.2	24
1813	Nitridated mesoporous Li4Ti5O12 spheres for high-rate lithium-ion batteries anode material. Journal of Solid State Electrochemistry, 2013, 17, 1479-1485.	1.2	28
1814	Facile synthesis of Li4Ti5O12 nanosheets stacked by ultrathin nanoflakes for high performance lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 14618.	5.2	45
1815	Robust lithium-ion anodes based on nanocomposites of iron oxideâ€“carbonâ€“silicate. Journal of Materials Chemistry A, 2013, 1, 4539.	5.2	24
1816	Recent advances in LiFePO4 nanoparticles with different morphology for high-performance lithium-ion batteries. RSC Advances, 2013, 3, 19744.	1.7	59
1817	Mesoporous chromium nitride as a high performance non-carbon support for the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2013, 15, 7041.	1.3	49

#	Article	IF	Citations
1818	Hierarchical hollow microspheres assembled from N-doped carbon coated Li4Ti5O12 nanosheets with enhanced lithium storage properties. Journal of Materials Chemistry A, 2013, 1, 15429.	5.2	70
1819	Nanostructured SnSb/MOx (M = Al or Mg)/C composites: hybrid mechanochemical synthesis and excellent Li storage performances. Journal of Materials Chemistry A, 2013, 1, 15316.	5.2	18
1820	Role of transition metal nanoparticles in the extra lithium storage capacity of transition metal oxides: a case study of hierarchical coreâ€“shell Fe3O4@C and Fe@C microspheres. Journal of Materials Chemistry A, 2013, 1, 15158.	5.2	230
1821	Organometallic approach for the synthesis of nanostructures. New Journal of Chemistry, 2013, 37, 3374.	1.4	127
1822	Shape-enhanced ammonia electro-oxidation property of a cubic platinum nanocrystal catalyst prepared by surfactant-free synthesis. Journal of Materials Chemistry A, 2013, 1, 14402.	5.2	45
1823	Polyaniline/carbon nanotube nanocomposite electrodes with biomimetic hierarchical structure for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 14719.	5.2	75
1824	Preparation and electrochemical Li storage performance of MnO@C nanorods consisting of ultra small MnO nanocrystals. RSC Advances, 2013, 3, 9035.	1.7	47
1825	Distinct effect of hierarchical structure on performance of anatase as an anode material for lithium-ion batteries. RSC Advances, 2013, 3, 26052.	1.7	8
1826	PH-driven dissolutionâ€“precipitation: a novel route toward ultrathin Ni(OH)2 nanosheets array on nickel foam as binder-free anode for Li-ion batteries with ultrahigh capacity. CrystEngComm, 2013, 15, 8300.	1.3	49
1827	Clusters of Î±-LiFeO2 nanoparticles incorporated into multi-walled carbon nanotubes: a lithium-ion battery cathode with enhanced lithium storage properties. Physical Chemistry Chemical Physics, 2013, 15, 20371.	1.3	18
1828	Self-assembled hollow mesoporous Co3O4 hybrid architectures: a facile synthesis and application in Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 13164.	5.2	40
1829	Comparative Studies of NiO Nanoparticles Prepared From Different Precursors for Electrochemical Capacitor. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2013, 43, 296-304.	0.6	2
1830	Botryoidalis hollow Zn2SnO4 boxes@graphene as anode materials for advanced lithium-ion batteries. RSC Advances, 2013, 3, 23489.	1.7	30
1831	Polyacrylonitrile Block Copolymers for the Preparation of a Thin Carbon Coating Around TiO₂ Nanorods for Advanced Lithiumâ€ion Batteries. Macromolecular Rapid Communications, 2013, 34, 1693-1700.	2.0	31
1832	SrCo0.85Fe0.1P0.05O3â^Î´ perovskite as a cathode for intermediate-temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2013, 1, 13632.	5.2	46
1833	Tetragonal VNb9O24.9-based nanorods: a novel form of lithium battery anode with superior cyclability. Journal of Materials Chemistry A, 2013, 1, 12409.	5.2	29
1834	Highly durable all-fiber nanogenerator for mechanical energy harvesting. Energy and Environmental Science, 2013, 6, 2631.	15.6	317
1835	Morphology and composition control of manganese oxide by the pulse reverse electrodeposition technique for high performance supercapacitors. Journal of Materials Chemistry A, 2013, 1, 14606.	5.2	45

#	Article	IF	Citations
1836	Highly entangled carbon nanoflakes on Li₃V₂(PO₄)₃microrods for improved lithium storage performance. RSC Advances, 2013, 3, 1297-1301.	1.7	32
1837	Understanding the fast lithium storage performance of hydrogenated TiO2 nanoparticles. Journal of Materials Chemistry A, 2013, 1, 14507.	5.2	138
1838	Controlled synthesis and Li-electroactivity of rutile TiO2 nanostructure with walnut-like morphology. Dalton Transactions, 2013, 42, 4278.	1.6	8
1839	Electrochemical insertion of Li into nanocrystalline MnFe2O4: a study of the reaction mechanism. RSC Advances, 2013, 3, 23001.	1.7	32
1840	Reversible lithium-ion insertion in triclinic hydrated molybdenum oxide nanobelts. Journal of Materials Chemistry A, 2013, 1, 15247.	5.2	11
1841	Improved cycle lives of LiMn2O4 cathodes in lithium ion batteries by an alginate biopolymer from seaweed. Journal of Materials Chemistry A, 2013, 1, 15224.	5.2	67
1842	Template-free synthesized Ni nanofoams as nanostructured current collectors for high-performance electrodes in lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 10002.	5.2	36
1843	Nitrogen-doped grapheneâ€“vanadium carbide hybrids as a high-performance oxygen reduction reaction electrocatalyst support in alkaline media. Journal of Materials Chemistry A, 2013, 1, 13404.	5.2	50
1844	Novel processing of lithium manganese silicate nanomaterials for Li-ion battery applications. RSC Advances, 2013, 3, 608-615.	1.7	41
1845	Mesoporous anatase TiO2 submicrospheres embedded in self-assembled three-dimensional reduced graphene oxide networks for enhanced lithium storage. Journal of Materials Chemistry A, 2013, 1, 12750.	5.2	67
1846	Surfactant-assisted photochemical deposition of three-dimensional nanoporous nickel oxyhydroxide films and their energy storage and conversion properties. Journal of Materials Chemistry A, 2013, 1, 4277.	5.2	18
1847	Superior electrochemical properties of LiMn2O4 yolkâ€“shell powders prepared by a simple spray pyrolysis process. Chemical Communications, 2013, 49, 5978.	2.2	55
1848	Graphene homogeneously anchored with Ni(OH)2 nanoparticles as advanced supercapacitor electrodes. CrystEngComm, 2013, 15, 10007.	1.3	99
1849	Facile synthesis and shape control of Fe3O4 nanocrystals with good dispersion and stabilization. CrystEngComm, 2013, 15, 3366.	1.3	19
1850	Significantly improved high-rate Li-ion batteries anode by encapsulating tin dioxide nanocrystals into mesotunnels. CrystEngComm, 2013, 15, 8537.	1.3	21
1851	Quantitative estimate of the conductivity of a soggy sand electrolyte: example of (LiClO4, THF):SiO2. Physical Chemistry Chemical Physics, 2013, 15, 2050-2054.	1.3	18
1852	Rapid fabrication of a novel Snâ€“Ge alloy: structureâ€“property relationship and its enhanced lithium storage properties. Journal of Materials Chemistry A, 2013, 1, 14577.	5.2	47
1853	Li2MnSiO4@C nanocomposite as a high-capacity cathode material for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 12650.	5.2	41

#	Article	IF	Citations
1854	Formation of nanoscale networks: selectively swelling amphiphilic block copolymers with CO2-expanded liquids. Nanoscale, 2013, 5, 1195.	2.8	17
1855	Influence of vanadium doping on the electrochemical performance of nickel oxide in supercapacitors. Physical Chemistry Chemical Physics, 2013, 15, 17626.	1.3	59
1856	Simple hydrothermal synthesis of mesoporous spinel NiCo₂O₄nanoparticles and their catalytic behavior in CH₃OH electro-oxidation and H₂O₂electro-reduction. Catalysis Science and Technology, 2013, 3, 3207-3215.	2.1	107
1857	Fabrication and Characterization of an Effective Polymer Nanocomposite Electrolyte Membrane for High Performance Lithium/Sulfur Batteries. Journal of the Electrochemical Society, 2013, 160, A1052-A1060.	1.3	37
1858	Facile preparation of transition metal oxideâ€“metal composites with unique nanostructures and their electrochemical performance as energy storage material. Journal of Materials Chemistry A, 2013, 1, 14246.	5.2	16
1859	Facile synthesis and electrochemical properties of CoMn₂O₄anodes for high capacity lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 2139-2143.	5.2	88
1860	Fabrication and electrochemical performance of 3D hierarchical Î²-Ni(OH)2 hollow microspheres wrapped in reduced graphene oxide. Journal of Materials Chemistry A, 2013, 1, 9083.	5.2	84
1861	Improving coulombic efficiency by confinement of solid electrolyte interphase film in pores of silicon/carbon composite. Journal of Materials Chemistry A, 2013, 1, 14075.	5.2	24
1862	Mapping spatially inhomogeneous electrochemical reactions in battery electrodes using high energy X-rays. Physical Chemistry Chemical Physics, 2013, 15, 8466.	1.3	15
1863	Safety issues relating to nanomaterials for construction applications. , 2013, , 127-158.		2
1864	A rationally designed dual role anode material for lithium-ion and sodium-ion batteries: case study of eco-friendly Fe3O4. Physical Chemistry Chemical Physics, 2013, 15, 2945.	1.3	154
1865	One-step growth of organic single-crystal pâ€“n nano-heterojunctions with enhanced visible-light photocatalytic activity. Chemical Communications, 2013, 49, 9200.	2.2	41
1866	Porous Fe2O3 nanocubes derived from MOFs for highly reversible lithium storage. CrystEngComm, 2013, 15, 9332.	1.3	124
1867	Oneâ€step fabrication of Sn_xTi_{1â€x}O₂ rutileâ€type coreâ€shell microspheres and their electrochemical properties. Crystal Research and Technology, 2013, 48, 538-545.	0.6	2
1868	A Strategy to Improve Cyclic Performance of LiNi_{0.5}Mn_{1.5}O₄in a Wide Voltage Region by Ti-Doping. Journal of the Electrochemical Society, 2013, 160, A3036-A3040.	1.3	48
1869	Lysine-assisted hydrothermal synthesis of hierarchically porous Fe2O3 microspheres as anode materials for lithium-ion batteries. Journal of Power Sources, 2013, 222, 59-65.	4.0	88
1870	Enhanced thermal stability of a lithiated nano-silicon electrode by fluoroethylene carbonate and vinylene carbonate. Journal of Power Sources, 2013, 222, 140-149.	4.0	217
1871	Investigation of Pd-based electrocatalysts for oxygen reduction in PEMFCs operating under automotive conditions. Journal of Power Sources, 2013, 222, 390-399.	4.0	22

#	Article	IF	Citations
1872	Graphene-beaded carbon nanofibers for use in supercapacitor electrodes: Synthesis and electrochemical characterization. Journal of Power Sources, 2013, 222, 410-416.	4.0	159
1873	In-situ synthesis of magnetite/expanded graphite composite material as high rate negative electrode for rechargeable lithium batteries. Journal of Power Sources, 2013, 223, 119-124.	4.0	26
1874	A facile route for PbO@C nanocomposites: An electrode candidate for lead-acid batteries with enhanced capacitance. Journal of Power Sources, 2013, 224, 125-131.	4.0	17
1875	Ultrahigh capacitance of nanoporous metal enhanced conductive polymer pseudocapacitors. Journal of Power Sources, 2013, 225, 304-310.	4.0	52
1876	Facile synthesis of porous LiMn2O4 spheres as cathode materials for high-power lithium ion batteries. Journal of Power Sources, 2013, 226, 140-148.	4.0	128
1877	Synthesis and electrochemical properties of MoO3/C composite as anode material for lithium-ion batteries. Journal of Power Sources, 2013, 226, 107-111.	4.0	51
1878	A graphene oxideâ€“photosensitizer complex as an enzyme-activatable theranostic agent. Chemical Communications, 2013, 49, 1202.	2.2	72
1879	High-performance Sn@carbon nanocomposite anode for lithium batteries. Journal of Power Sources, 2013, 226, 241-248.	4.0	83
1880	Microâ€sized Siâ€C Composite with Interconnected Nanoscale Building Blocks as Highâ€Performance Anodes for Practical Application in Lithiumâ€Ion Batteries. Advanced Energy Materials, 2013, 3, 295-300.	10.2	412
1881	Nanostructured metal chalcogenides: synthesis, modification, and applications in energy conversion and storage devices. Chemical Society Reviews, 2013, 42, 2986.	18.7	1,393
1882	A Template-Free and Surfactant-Free Method for High-Yield Synthesis of Highly Monodisperse 3-Aminophenolâ€“Formaldehyde Resin and Carbon Nano/Microspheres. Macromolecules, 2013, 46, 140-145.	2.2	155
1883	Sulphurâ€“TiO2 yolkâ€“shell nanoarchitecture with internal void space for long-cycle lithiumâ€“sulphur batteries. Nature Communications, 2013, 4, 1331.	5.8	1,884
1884	Lowâ€Temperature Synthesis, Characterization, and Stability of Spinelâ€Type Li₂NiF₄ and Solidâ€Solutions Li₂Ni_{1â€“x}Co_xF₄. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 326-333.	0.6	5
1885	Synthesis of one-dimensional hierarchical NiO hollow nanostructures with enhanced supercapacitive performance. Nanoscale, 2013, 5, 877-881.	2.8	166
1886	Facile synthesis of NiCo2O4 nanorod arrays on Cu conductive substrates as superior anode materials for high-rate Li-ion batteries. CrystEngComm, 2013, 15, 1578.	1.3	125
1887	A high energy-density tin anode for rechargeable magnesium-ion batteries. Chemical Communications, 2013, 49, 149-151.	2.2	305
1888	Mass transport and electrolyte accessibility through hexagonally ordered channels of self-assembled mesoporous carbons. Journal of Power Sources, 2013, 228, 24-31.	4.0	20
1889	Properties and Promises of Nanosized Insertion Materials for Li-Ion Batteries. Accounts of Chemical Research, 2013, 46, 1206-1215.	7.6	222

#	Article	IF	Citations
1890	Challenges and opportunities of nanostructured materials for aprotic rechargeable lithiumâ€“air batteries. Nano Energy, 2013, 2, 443-467.	8.2	315
1891	Influence of particle sizes and morphologies on the electrochemical performances of spinel LiMn2O4 cathode materials. Journal of Power Sources, 2013, 225, 286-292.	4.0	103
1892	TiO₂nanotube arrays grafted with Fe₂O₃hollow nanorods as integrated electrodes for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 122-127.	5.2	130
1893	Ball-milling assisted solid-state reaction synthesis of mesoporous Li4Ti5O12 for lithium-ion batteries anode. Journal of Power Sources, 2013, 226, 71-74.	4.0	38
1894	The development and challenges of rechargeable non-aqueous lithiumâ€“air batteries. International Journal of Smart and Nano Materials, 2013, 4, 27-46.	2.0	30
1895	Preparation of well-dispersed Pt nanoparticles on solvothermal graphene and their enhanced electrochemical properties. Materials Research Bulletin, 2013, 48, 834-839.	2.7	12
1896	Synthesis of Co3O4 nano-octahedra enclosed by {111} facets and their excellent lithium storage properties as anode material of lithium ion batteries. Nano Energy, 2013, 2, 394-402.	8.2	131
1897	Enhanced supercapacitive performances of hierarchical porous nanostructure assembled from ultrathin MnO2 nanoflakes. Journal of Materials Science, 2013, 48, 714-719.	1.7	28
1898	Synthesis, size reduction, and delithiation of carbonate-free nanocrystalline lithium nickel oxide. Journal of Materials Science, 2013, 48, 1740-1745.	1.7	8
1899	Porous nanocrystalline TiO2 with high lithium-ion insertion performance. Journal of Materials Science, 2013, 48, 2733-2742.	1.7	17
1900	Dendritic Molecular Nanobatteries and the Contribution of Click Chemistry. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 41-49.	1.9	6
1901	Electrochemical impedance spectroscopy on nanostructured carbon electrodes grown by supersonic cluster beam deposition. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	12
1902	Binary Ptâ€“Pd and ternary Ptâ€“Pdâ€“Ru nanoelectrocatalysts for direct methanol fuel cells. International Journal of Hydrogen Energy, 2013, 38, 2900-2907.	3.8	58
1904	Anomalous High Ionic Conductivity of Nanoporous Î²-Li₃PS₄. Journal of the American Chemical Society, 2013, 135, 975-978.	6.6	709
1905	Graphene nanosheet supported bifunctional catalyst for high cycle life Li-air batteries. Journal of Power Sources, 2013, 234, 8-15.	4.0	73
1906	Preparation of single-crystalline LiNi0.5Mn0.5O2 nanosheets as cathodes for highly reversible lithium-ion batteries. Materials Chemistry and Physics, 2013, 138, 440-443.	2.0	8
1907	{001} facets dominated anatase TiO2: Morphology, formation/etching mechanisms and performance. Science China Chemistry, 2013, 56, 402-417.	4.2	24
1908	Pseudo-Single-Crystal Electrochemistry on Polycrystalline Electrodes: Visualizing Activity at Grains and Grain Boundaries on Platinum for the Fe²⁺/Fe³⁺ Redox Reaction. Journal of the American Chemical Society, 2013, 135, 3873-3880.	6.6	121

#	Article	IF	Citations
1909	Coreâ€“shell sulfur@polypyrrole composites as high-capacity materials for aqueous rechargeable batteries. Nanoscale, 2013, 5, 1460.	2.8	86
1910	The Effect of Oxygen Crossover on the Anode of a Liâ€“O₂ Battery using an Etherâ€Based Solvent: Insights from Experimental and Computational Studies. ChemSusChem, 2013, 6, 51-55.	3.6	231
1911	Graphene/polymer composites for energy applications. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 231-253.	2.4	222
1912	Facile synthesis of hierarchical mesoporous Li4Ti5O12 microspheres in supercritical methanol. Journal of Power Sources, 2013, 244, 164-169.	4.0	42
1913	Carbon coated Li4Ti5O12 nanorods as superior anode material for high rate lithium ion batteries. Journal of Alloys and Compounds, 2013, 572, 37-42.	2.8	77
1914	A bird nest-like manganese dioxide and its application as electrode in supercapacitors. Journal of Energy Chemistry, 2013, 22, 928-934.	7.1	17
1915	Tailoring the subunits of Î±-Fe2O3 nanoplates for optimizing electrochemical performance. Electrochimica Acta, 2013, 113, 194-199.	2.6	22
1916	Lithium insertion into carbon-rich SiOC ceramics: Influence of pyrolysis temperature on electrochemical properties. Journal of Power Sources, 2013, 244, 450-455.	4.0	89
1917	In situ growth of ordered polyaniline nanowires on surfactant stabilized exfoliated graphene as high-performance supercapacitor electrodes. Synthetic Metals, 2013, 185-186, 89-95.	2.1	37
1918	A porous vanadium pentoxide nanomaterial as cathode material for rechargeable lithium batteries. Electrochimica Acta, 2013, 89, 292-299.	2.6	40
1919	A high-rate germanium-particle slurry cast Li-ion anode with high Coulombic efficiency and long cycle life. Journal of Power Sources, 2013, 238, 123-136.	4.0	90
1920	Porous V2O5-SnO2/CNTs composites as high performance cathode materials for lithium-ion batteries. Journal of Energy Chemistry, 2013, 22, 347-355.	7.1	23
1921	Preparation and supercapacitor application of the single crystal nickel hydroxide and oxide nanosheets. Materials Research Bulletin, 2013, 48, 3518-3526.	2.7	28
1922	Nanostructured TiO2(B): the effect of size and shape on anode properties for Li-ion batteries. Progress in Natural Science: Materials International, 2013, 23, 235-244.	1.8	79
1923	Low cost, eco-friendly layered Li1.2(Mn0.32Ni0.32Fe0.16)O2 nanoparticles for hybrid supercapacitor applications. Electrochimica Acta, 2013, 109, 595-601.	2.6	16
1924	Microsized TiO2 activated by high-energy ball milling as starting material for the preparation of Li4Ti5O12 anode material. Powder Technology, 2013, 247, 204-210.	2.1	30
1925	A comparative study of electrochemical performance of graphene sheets, expanded graphite and natural graphite as anode materials for lithium-ion batteries. Electrochimica Acta, 2013, 107, 555-561.	2.6	83
1926	Facile scalable synthesis of Co3O4/carbon nanotube hybrids as superior anode materials for lithium-ion batteries. Materials Research Bulletin, 2013, 48, 4419-4423.	2.7	35

#	Article	IF	Citations
1927	Amorphized Sb-based composite for high-performance Li-ion battery anodes. Journal of Electroanalytical Chemistry, 2013, 700, 12-16.	1.9	29
1928	Preparation and performance of a non-ionic plastic crystal electrolyte with the addition of polymer for lithium ion batteries. Electrochimica Acta, 2013, 114, 720-725.	2.6	32
1929	Fabrication of VO2(B) hybrid with multiwalled carbon nanotubes to form a coaxial structure and its electrochemical capacitance performance. Journal of Alloys and Compounds, 2013, 559, 167-173.	2.8	53
1930	The electrochemical properties of high-capacity sulfur/reduced graphene oxide with different electrolyte systems. Journal of Power Sources, 2013, 244, 240-245.	4.0	32
1931	Surfactant-assisted mild hydrothermal synthesis to nanostructured mixed orthophosphates LiMnyFe1â^'yPO4/C lithium insertion cathode materials. Electrochimica Acta, 2013, 105, 99-109.	2.6	25
1932	Reduction effect of irreversible capacity on SiO anode material heat-reacted with Fe2O3. Journal of Power Sources, 2013, 232, 264-269.	4.0	28
1933	Role of nano in catalysis: Palladium catalyzed hydrogen desorption from nanosized magnesium hydride. Nano Energy, 2013, 2, 742-748.	8.2	25
1934	Structure control and performance improvement of carbon nanofibers containing a dispersion of silicon nanoparticles for energy storage. Carbon, 2013, 51, 185-194.	5.4	88
1935	Influence of morphologies and pseudocapacitive contributions for charge storage in V2O5 micro/nano-structures. Electrochimica Acta, 2013, 111, 762-770.	2.6	96
1936	Synthesis and Characterization of Porous Flowerlike Â-Fe2O3 Nanostructures for Supercapacitor Application. ECS Electrochemistry Letters, 2013, 2, A60-A62.	1.9	120
1937	Ultrathin Co3O4 nanosheet arrays with high supercapacitive performance. Scientific Reports, 2013, 3, 3537.	1.6	177
1938	TiO2 modified FeS Nanostructures with Enhanced Electrochemical Performance for Lithium-Ion Batteries. Scientific Reports, 2013, 3, 2007.	1.6	133
1939	Scalable Functionalized Graphene Nano-platelets as Tunable Cathodes for High-performance Lithium Rechargeable Batteries. Scientific Reports, 2013, 3, 1506.	1.6	84
1940	Comparison of the Electrochemical Performance of NiMoO₄ Nanorods and Hierarchical Nanospheres for Supercapacitor Applications. ACS Applied Materials & Interfaces, 2013, 5, 12905-12910.	4.0	267
1941	A study about the use of carbon coated iron oxide-based electrodes in lithium-ion capacitors. Electrochimica Acta, 2013, 108, 219-225.	2.6	49
1942	Fabrication of Ni(OH)2 nanoflakes array on Ni foam as a binder-free electrode material for high performance supercapacitors. Electrochimica Acta, 2013, 107, 339-342.	2.6	117
1943	Synthesis and evaluation of carbon-coated Fe2O3 loaded on graphene nanosheets as an anode material for high performance lithium ion batteries. Journal of Power Sources, 2013, 239, 37-44.	4.0	45
1944	Structural characterization and electrochemical behaviour of Li(4â^'x)/3Ti(5â^'2x)/3MnxO4 solid solution with spinel-structure. Materials Chemistry and Physics, 2013, 140, 535-542.	2.0	4

#	Article	IF	Citations
1945	Electrochemical performance of asymmetric supercapacitor based on Co3O4/AC materials. Journal of Electroanalytical Chemistry, 2013, 706, 1-6.	1.9	85
1946	Porous NiCo2O4 nanostructures as bi-functional electrocatalysts for CH3OH oxidation reaction and H2O2 reduction reaction. Electrochimica Acta, 2013, 113, 290-301.	2.6	95
1947	Preparation of solid-state composite electrolytes based on organic/inorganic hybrid star-shaped polymer and PEG-functionalized POSS for all-solid-state lithium battery applications. Polymer, 2013, 54, 5812-5820.	1.8	91
1948	Continuous synthesis of lithium iron phosphate (LiFePO4) nanoparticles in supercritical water: Effect of mixing tee. Journal of Supercritical Fluids, 2013, 73, 70-79.	1.6	43
1949	Binder-free Si nanoparticles@carbon nanofiber fabric as energy storage material. Electrochimica Acta, 2013, 102, 246-251.	2.6	60
1950	Recent development of ceria-based (nano)composite materials for low temperature ceramic fuel cells and electrolyte-free fuel cells. Journal of Power Sources, 2013, 234, 154-174.	4.0	229
1951	One step solâ€“gel synthesis of Li2ZnTi3O8/C nanocomposite with enhanced lithium-ion storage properties. Electrochimica Acta, 2013, 88, 74-78.	2.6	87
1952	Measurement of self-diffusion in thin samples using a novel one-sided NMR magnet. Microporous and Mesoporous Materials, 2013, 178, 79-83.	2.2	8
1953	Nanocomposites of silicon and carbon derived from coal tar pitch: Cheap anode materials for lithium-ion batteries with long cycle life and enhanced capacity. Electrochimica Acta, 2013, 93, 213-221.	2.6	93
1954	Excellent electrochemical performance of porous nanoparticles-constructed granule LiMn2O4 derived from a highly reactive Mn3O4. Electrochimica Acta, 2013, 111, 192-199.	2.6	20
1955	Surface-induced structural transformation in nanowires. Materials Science and Engineering Reports, 2013, 74, 173-209.	14.8	23
1956	Crystalline Sbâ€“Cu alloy films as anode materials for Li-ion rechargeable batteries. Current Applied Physics, 2013, 13, 1454-1458.	1.1	8
1957	Preparation and dielectric properties of coreâ€“shell structural composites of poly(1H,1H,2H,2H-perfluorooctyl methacrylate)@BaTiO3 nanoparticles. Applied Surface Science, 2013, 277, 121-127.	3.1	37
1958	SC-IrO2NR-carbon hybrid: A catalyst with high electrochemical stability for oxygen reduction. Science China Chemistry, 2013, 56, 131-136.	4.2	10
1959	One-step strategy to graphene/Ni(OH)2 composite hydrogels as advanced three-dimensional supercapacitor electrode materials. Nano Research, 2013, 6, 65-76.	5.8	202
1960	One-Step Electrophoretic Deposition of Reduced Graphene Oxide and Ni(OH)₂ Composite Films for Controlled Syntheses Supercapacitor Electrodes. Journal of Physical Chemistry B, 2013, 117, 1616-1627.	1.2	195
1961	In situ synthesis of cobalt doped polyaniline modified graphene composites for high performance supercapacitor electrode materials. Journal of Electroanalytical Chemistry, 2013, 697, 32-45.	1.9	67
1962	Studies on polymer electrolyte poly(vinyl) pyrrolidone (PVP) complexed with ionic liquid: Effect of complexation on thermal stability, conductivity and relaxation behaviour. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 231-238.	1.7	91

#	Article	IF	Citations
1963	Vanadium oxide nanowire â€“ Graphene binder free nanocomposite paper electrodes for supercapacitors: A facile green approach. Journal of Power Sources, 2013, 230, 130-137.	4.0	142
1964	The electrochemical behaviour of TiO2 nanotubes with Co3O4 or NiO submicron particles: Composite anode materials for Li-ion micro batteries. Electrochimica Acta, 2013, 88, 814-820.	2.6	50
1965	Facile synthesis of polyaniline nanotubes using reactive oxide templates for high energy density pseudocapacitors. Journal of Materials Chemistry A, 2013, 1, 3315.	5.2	182
1966	Supercapacitors: Review of Materials and Fabrication Methods. Journal of Energy Engineering - ASCE, 2013, 139, 72-79.	1.0	441
1967	TiO2-B nanofibers with high thermal stability as improved anodes for lithium ion batteries. Electrochemistry Communications, 2013, 27, 124-127.	2.3	31
1968	Tough Germanium Nanoparticles under Electrochemical Cycling. ACS Nano, 2013, 7, 3427-3433.	7.3	184
1969	Li4Ti5O12 prepared by a modified citric acid solâ€“gel method for lithium-ion battery. Journal of Power Sources, 2013, 236, 118-125.	4.0	77
1970	Tuning the morphology of ZnMn2O4 lithium ion battery anodes by electrospinning and its effect on electrochemical performance. RSC Advances, 2013, 3, 2812.	1.7	70
1971	A reduced graphene oxideâ€“nanoporous magnetic oxide iron hybrid as an improved anode material for lithium ion batteries. Electrochimica Acta, 2013, 95, 24-28.	2.6	24
1972	A Fe2O3 nanoparticle/carbon aerogel composite for use as an anode material for lithium ion batteries. Electrochimica Acta, 2013, 97, 271-277.	2.6	68
1973	The role of band structure in electron transfer kinetics in lowâ€dimensional carbon. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 226-230.	0.5	13
1974	Functional mesoporous carbon-coated CNT network for high-performance supercapacitors. New Journal of Chemistry, 2013, 37, 1294.	1.4	12
1975	Thin copper phosphide films as conversion anode for lithium-ion battery applications. Electrochimica Acta, 2013, 92, 47-54.	2.6	37
1976	Synthesis and electrochemical performances of cobalt sulfides/graphene nanocomposite as anode material of Li-ion battery. Journal of Power Sources, 2013, 235, 122-128.	4.0	167
1977	Electric Papers of Graphene-Coated Co₃O₄ Fibers for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 997-1002.	4.0	145
1978	Hybrid nanostructured materials for high-performance electrochemical capacitors. Nano Energy, 2013, 2, 213-234.	8.2	976
1979	Layer-by-layer Î²-Ni(OH)2/graphene nanohybrids for ultraflexible all-solid-state thin-film supercapacitors with high electrochemical performance. Nano Energy, 2013, 2, 65-74.	8.2	271
1980	A facile PVP-assisted hydrothermal fabrication of Fe2O3/Graphene composite as high performance anode material for lithium ion batteries. Journal of Alloys and Compounds, 2013, 560, 208-214.	2.8	70

#	Article	IF	Citations
1981	A successive ionic layer adsorption and reaction (SILAR) method to induce Mn₃O₄nanospots on CNTs for supercapacitors. New Journal of Chemistry, 2013, 37, 403-408.	1.4	60
1982	Nanohybridization of Low-Dimensional Nanomaterials: Synthesis, Classification, and Application. Critical Reviews in Solid State and Materials Sciences, 2013, 38, 1-56.	6.8	20
1983	Strongly coupled inorganicâ€“nano-carbon hybrid materials for energy storage. Chemical Society Reviews, 2013, 42, 3088.	18.7	795
1984	Silicon nanotube anode for lithium-ion batteries. Electrochemistry Communications, 2013, 29, 67-70.	2.3	236
1985	LiFePO4â€“graphene as a superior cathode material for rechargeable lithium batteries: impact of stacked graphene and unfolded graphene. Energy and Environmental Science, 2013, 6, 1521.	15.6	199
1986	Simple synthesis and particle size effects of TiO2 nanoparticle anodes for rechargeable lithium ion batteries. Electrochimica Acta, 2013, 90, 112-118.	2.6	98
1987	A high-performance lithium-ion battery anode based on the coreâ€“shell heterostructure of silicon-coated vertically aligned carbon nanofibers. Journal of Materials Chemistry A, 2013, 1, 1055-1064.	5.2	81
1989	High-performance flexible asymmetric supercapacitors based on 3D porous graphene/MnO₂nanorod and graphene/Ag hybrid thin-film electrodes. Journal of Materials Chemistry C, 2013, 1, 1245-1251.	2.7	156
1990	Towards stable catalysts by controlling collective properties of supported metal nanoparticles. Nature Materials, 2013, 12, 34-39.	13.3	606
1991	Effect of carbon blacks filler addition on electrochemical behaviors of Co3O4/graphene nanosheets as a supercapacitor electrodes. Electrochimica Acta, 2013, 89, 516-522.	2.6	135
1992	Preparation of activated carbon aerogels with hierarchically porous structures for electrical double layer capacitors. Electrochimica Acta, 2013, 89, 571-576.	2.6	80
1993	Enhanced Supercapacitor Performance of Nâ€Ðoped Mesoporous Carbons Prepared from a Gelatin Biomolecule. ChemPhysChem, 2013, 14, 1563-1569.	1.0	44
1994	Review and prospect of layered lithium nickel manganese oxide as cathode materials for Li-ion batteries. Journal of Solid State Electrochemistry, 2013, 17, 911-926.	1.2	62
1995	Optimal design of powdered nanosized oxides of high surface area and porosity using a citric acid aided route, with special reference to ZnO. Journal of Sol-Gel Science and Technology, 2013, 68, 411-422.	1.1	26
1996	Onion-like carbon matrix supported Co3O4 nanocomposites: a highly reversible anode material for lithium ion batteries with excellent cycling stability. Journal of Materials Chemistry A, 2013, 1, 5212.	5.2	77
1997	Hierarchically porous carbon nanofibers containing numerous heteroatoms forÂsupercapacitors. Journal of Power Sources, 2013, 234, 285-291.	4.0	82
1998	Functional mesoporous materials for energy applications: solar cells, fuel cells, and batteries. Nanoscale, 2013, 5, 4584.	2.8	114
2000	Bottom-up Approach toward Single-Crystalline VO₂-Graphene Ribbons as Cathodes for Ultrafast Lithium Storage. Nano Letters, 2013, 13, 1596-1601.	4.5	263

#	Article	IF	Citations
2001	Extraordinary long-term cycleability of TiO₂-B nanorods as anodes in full-cell assembly with electrospun PVdF-HFP membranes. Journal of Materials Chemistry A, 2013, 1, 308-316.	5.2	50
2002	Silicon nanowires for advanced energy conversion and storage. Nano Today, 2013, 8, 75-97.	6.2	266
2003	Amorphous Zn2GeO4 nanoparticles as anodes with high reversible capacity and long cycling life for Li-ion batteries. Nano Energy, 2013, 2, 498-504.	8.2	120
2004	Porous Co3O4 materials prepared by solid-state thermolysis of a novel Co-MOF crystal and their superior energy storage performances for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 7235.	5.2	335
2005	Hierarchical Tubular Structures Constructed by Carbonâ€Coated SnO₂ Nanoplates for Highly Reversible Lithium Storage. Advanced Materials, 2013, 25, 2589-2593.	11.1	304
2006	Scalable High-Power Redox Capacitors with Aligned Nanoforests of Crystalline MnO₂Nanorods by High Voltage Electrophoretic Deposition. ACS Nano, 2013, 7, 2114-2125.	7.3	83
2007	Coral-like V2O5 nanowhiskers as high-capacity cathode materials for lithium-ion batteries. RSC Advances, 2013, 3, 5069.	1.7	20
2008	Self-assembly of stacked layers of Mn3O4 nanosheets using a scalable chemical strategy for enhanced, flexible, electrochemical energy storage. Journal of Power Sources, 2013, 238, 274-282.	4.0	75
2009	Novel fluorinated polyurethane decorated electrospun silica nanofibrous membranes exhibiting robust waterproof and breathable performances. RSC Advances, 2013, 3, 7562.	1.7	45
2010	Controllable synthesis of WO3Â·nH2O microcrystals with various morphologies by a facile inorganic route and their photocatalytic activities. New Journal of Chemistry, 2013, 37, 1538.	1.4	61
2011	Ordered Mesoporous Î²â€MgMoO₄ Thin Films for Lithiumâ€Ion Battery Applications. Small, 2013, 9, 2541-2544.	5.2	27
2012	Capacitance enhancement of polyaniline coated curved-graphene supercapacitors in a redox-active electrolyte. Nanoscale, 2013, 5, 4134.	2.8	151
2013	Carbon-Encapsulated Fe₃O₄ Nanoparticles as a High-Rate Lithium Ion Battery Anode Material. ACS Nano, 2013, 7, 4459-4469.	7.3	937
2014	Graphene-based materials: Fabrication, characterization and application for the decontamination of wastewater and wastegas and hydrogen storage/generation. Advances in Colloid and Interface Science, 2013, 195-196, 19-40.	7.0	306
2015	Synthesis of single crystalline hexagonal nanobricks of LiNi1/3Co1/3Mn1/3O2 with high percentage of exposed {010} active facets as high rate performance cathode material for lithium-ion battery. Journal of Materials Chemistry A, 2013, 1, 3860.	5.2	195
2016	Graphene-based electrodes for electrochemical energy storage. Energy and Environmental Science, 2013, 6, 1388.	15.6	696
2017	Graphene in lithium ion battery cathode materials: A review. Journal of Power Sources, 2013, 240, 66-79.	4.0	534
2018	Interface Chemistry Engineering for Stable Cycling of Reduced GO/SnO₂ Nanocomposites for Lithium Ion Battery. Nano Letters, 2013, 13, 1711-1716.	4.5	278

#	Article	IF	Citations
2019	General Solution Growth of Mesoporous NiCo₂O₄ Nanosheets on Various Conductive Substrates as Highâ€Performance Electrodes for Supercapacitors. Advanced Materials, 2013, 25, 976-979.	11.1	963
2020	Controlled electrochemical deposition and transformation of hetero-nanoarchitectured electrodes for energy storage. Physical Chemistry Chemical Physics, 2013, 15, 7976.	1.3	42
2021	High Performance Li₂Ru_{1â€“y}Mn_yO₃ (0.2 â‰) Tj ETQq0 0 0 rgBT /O Chemistry of Materials, 2013, 25, 1121-1131.	3.2	365
2022	Two-dimensional diffusion in Li0.7NbS2as directly probed by frequency-dependent7Li NMR. Journal of Physics Condensed Matter, 2013, 25, 195402.	0.7	13
2023	Enhanced lithium storage in Fe2O3â€“SnO2â€“C nanocomposite anode with a breathable structure. Nanoscale, 2013, 5, 4910.	2.8	54
2024	Graphene composites as anode materials in lithium-ion batteries. Electronic Materials Letters, 2013, 9, 133-153.	1.0	71
2025	Electrochemical properties of nanosized Li-rich layered oxide as positive electrode materials for Li-Ion batteries. RSC Advances, 2013, 3, 8527.	1.7	27
2026	Controlled Growth of NiCo2O4 Nanorods and Ultrathin Nanosheets on Carbon Nanofibers for High-performance Supercapacitors. Scientific Reports, 2013, 3, 1470.	1.6	417
2027	Nanowire-graphene hybrids for lithium-ion-battery. Proceedings of SPIE, 2013, , .	0.8	0
2028	Largeâ€Scale Production of Nanographene Sheets with a Controlled Mesoporous Architecture as Highâ€Performance Electrochemical Electrode Materials. ChemSusChem, 2013, 6, 1084-1090.	3.6	49
2029	Novel and high-performance asymmetric micro-supercapacitors based on graphene quantum dots and polyaniline nanofibers. Nanoscale, 2013, 5, 6053.	2.8	271
2030	MoO₂/Multiwalled Carbon Nanotubes (MWCNT) Hybrid for Use as a Li-Ion Battery Anode. ACS Applied Materials & Interfaces, 2013, 5, 2555-2566.	4.0	141
2031	Microwave synthesized magnetic tubular carbon nanocomposite fabrics toward electrochemical energy storage. Nanoscale, 2013, 5, 1825.	2.8	30
2032	Self-assembly of hierarchical star-like Co3O4 micro/nanostructures and their application in lithium ion batteries. Nanoscale, 2013, 5, 1922.	2.8	117
2033	Theoretical Study of Oxygen Reduction Reaction Catalysts: From Pt to Non-precious Metal Catalysts. Lecture Notes in Energy, 2013, , 339-373.	0.2	2
2034	Synthesis of TiO2 hollow nanofibers by co-axial electrospinning and its superior lithium storage capability in full-cell assembly with olivine phosphate. Nanoscale, 2013, 5, 5973.	2.8	87
2035	Hydrothermal synthesis of plate-like carbon-coated Li3V2(PO4)3 and its low temperature performance for high power lithium ion batteries. Electrochimica Acta, 2013, 91, 43-49.	2.6	79
2036	Metal Oxides and Oxysalts as Anode Materials for Li Ion Batteries. Chemical Reviews, 2013, 113, 5364-5457.	23.0	2,670

#	Article	IF	Citations
2037	Self-assembled phosphomolybdic acidâ€“polyanilineâ€“graphene composite-supported efficient catalyst towards methanol oxidation. Journal of Materials Chemistry A, 2013, 1, 6687.	5.2	38
2038	Synthesis of Fe3O4@C coreâ€“shell nanorings and their enhanced electrochemical performance for lithium-ion batteries. Nanoscale, 2013, 5, 3627.	2.8	94
2039	Advanced zinc-air batteries based on high-performance hybrid electrocatalysts. Nature Communications, 2013, 4, 1805.	5.8	976
2040	Pyrolyzed Bacterial Cellulose: A Versatile Support for Lithium Ion Battery Anode Materials. Small, 2013, 9, 2399-2404.	5.2	158
2041	Nitrogen-doped mesoporous carbons originated from ionic liquids as electrode materials for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 6373.	5.2	130
2042	Surface phase composition of nanosized LiFePO4 and their enhanced electrochemical properties. Journal of Materials Chemistry A, 2013, 1, 6635.	5.2	15
2043	Flexible Films Derived from Electrospun Carbon Nanofibers Incorporated with Co₃O₄ Hollow Nanoparticles as Selfâ€Supported Electrodes for Electrochemical Capacitors. Advanced Functional Materials, 2013, 23, 3909-3915.	7.8	233
2044	Aqueous Solution Process for the Synthesis and Assembly of Nanostructured One-Dimensional Î±-MoO₃ Electrode Materials. Chemistry of Materials, 2013, 25, 2557-2563.	3.2	53
2045	Grapheneâ€Networkâ€Backboned Architectures for Highâ€Performance Lithium Storage. Advanced Materials, 2013, 25, 3979-3984.	11.1	253
2046	Metal nanoparticles for energy conversion. Pure and Applied Chemistry, 2013, 85, 437-451.	0.9	17
2047	Grapheneâ€Like MoS₂/Graphene Composites: Cationic Surfactantâ€Assisted Hydrothermal Synthesis and Electrochemical Reversible Storage of Lithium. Small, 2013, 9, 3693-3703.	5.2	322
2048	One-step synthesis of CoO anode material for rechargeable lithium-ion batteries. Ceramics International, 2013, 39, 9325-9330.	2.3	58
2049	Coreâ€“shell Fe@Fe3C/C nanocomposites as anode materials for Li ion batteries. Electrochimica Acta, 2013, 87, 180-185.	2.6	124
2050	Yttrium-modified Li₄Ti₅O₁₂as an effective anode material for lithium ion batteries with outstanding long-term cyclability and rate capabilities. Journal of Materials Chemistry A, 2013, 1, 89-96.	5.2	86
2051	Highly Mobile Ions: Low-Temperature NMR Directly Probes Extremely Fast Li⁺ Hopping in Argyrodite-Type Li₆PS₅Br. Journal of Physical Chemistry Letters, 2013, 4, 2118-2123.	2.1	118
2052	Compositional segregation in shaped Pt alloy nanoparticles and their structural behaviour during electrocatalysis. Nature Materials, 2013, 12, 765-771.	13.3	1,121
2053	Hierarchical Fe2O3@Co3O4 nanowire array anode for high-performance lithium-ion batteries. Journal of Power Sources, 2013, 240, 344-350.	4.0	91
2054	LiNi_{0.5}Mn_{1.5}O₄ Porous Nanorods as High-Rate and Long-Life Cathodes for Li-Ion Batteries. Nano Letters, 2013, 13, 2822-2825.	4.5	257

#	Article	IF	Citations
2055	Hydrothermal carbon-based nanostructured hollow spheres as electrode materials for high-power lithiumâ€“sulfur batteries. Physical Chemistry Chemical Physics, 2013, 15, 6080.	1.3	167
2056	Developing a light weight lithium ion battery â€“ an effective material and electrode design for high performance conversion anodes. RSC Advances, 2013, 3, 6386.	1.7	20
2057	Sn and SnO2-graphene composites as anode materials for lithium-ion batteries. Ionics, 2013, 19, 1875-1882.	1.2	24
2058	High-energy supercapacitors based on hierarchical porous carbon with an ultrahigh ion-accessible surface area in ionic liquid electrolytes. Nanoscale, 2013, 5, 4678.	2.8	94
2059	Fabrication and Electrochemical Performance of Interconnected Silicon Nanowires Synthesized from AlCu Catalyst. Journal of Physical Chemistry C, 2013, 117, 8604-8610.	1.5	20
2060	Hydrogen peroxide biosensor based on microperoxidase-11 immobilized in a silica cavity array electrode. Talanta, 2013, 107, 324-331.	2.9	21
2061	Carbon Nanostructures in Lithium Ion Batteries: Past, Present, and Future. Critical Reviews in Solid State and Materials Sciences, 2013, 38, 128-166.	6.8	66
2062	Hydrothermal synthesis of Ni@C coreâ€“shell composites with high capacitance. Journal of Alloys and Compounds, 2013, 575, 152-157.	2.8	16
2063	Enhanced Electrochemical Performance of FeWO₄ by Coating Nitrogen-Doped Carbon. ACS Applied Materials & Interfaces, 2013, 5, 4209-4215.	4.0	47
2064	Synthesis and electrochemical properties of high performance yolk-structured LiMn₂O₄microspheres for lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 860-867.	5.2	32
2065	Threeâ€Dimensional Hierarchical GeSe₂ Nanostructures for High Performance Flexible Allâ€Solidâ€State Supercapacitors. Advanced Materials, 2013, 25, 1479-1486.	11.1	236
2066	Engineering nano-composite Li4Ti5O12 anodes via scanning electron-probe fabrication. Nano Energy, 2013, 2, 343-350.	8.2	40
2067	Opportunities and challenges in the use of inorganic fullerene-like nanoparticles to produce advanced polymer nanocomposites. Progress in Polymer Science, 2013, 38, 1163-1231.	11.8	154
2068	Size-controlled hydrothermal synthesis and high electrocatalytic performance of CoS2 nanocatalysts as non-precious metal cathode materials for fuel cells. Journal of Materials Chemistry A, 2013, 1, 5741.	5.2	77
2069	Fe2O3 particles enwrapped by graphene with excellent cyclability and rate capability as anode materials for lithium ion batteries. Applied Surface Science, 2013, 266, 148-154.	3.1	78
2070	Size and shape control of LiFePO4 nanocrystals for better lithium ion battery cathode materials. Nano Research, 2013, 6, 469-477.	5.8	123
2071	Heteroepitaxial growth of ZnO nanosheet bands on ZnCo2O4 submicron rods toward high-performance Li ion battery electrodes. Nano Research, 2013, 6, 348-355.	5.8	60
2072	Important roles of graphene edges in carbon-based energy storage devices. Journal of Energy Chemistry, 2013, 22, 183-194.	7.1	32

#	Article	IF	Citations
2073	Hexagonally-arranged-nanoporous and continuous NiO films with varying electrical conductivity. Applied Surface Science, 2013, 276, 832-837.	3.1	12
2074	Uptake Kinetics and Nanotoxicity of Silica Nanoparticles Are Cell Type Dependent. Small, 2013, 9, 3970-3980.	5.2	111
2075	Synthesis of Singleâ€Crystalline LiMn₂O₄ and LiMn_{1.5}Ni_{0.5}O₄ Nanocrystals and Their Lithium Storage Properties. ChemPlusChem, 2013, 78, 218-221.	1.3	14
2076	NiCo₂S₄@graphene as a Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions. ACS Applied Materials & Interfaces, 2013, 5, 5002-5008.	4.0	641
2077	Comprehensive X-ray Photoelectron Spectroscopy Study of the Conversion Reaction Mechanism of CuO in Lithiated Thin Film Electrodes. Journal of Physical Chemistry C, 2013, 117, 4421-4430.	1.5	223
2078	Nickel Sulfide/Nitrogenâ€Doped Graphene Composites: Phaseâ€Controlled Synthesis and High Performance Anode Materials for Lithium Ion Batteries. Small, 2013, 9, 1321-1328.	5.2	297
2079	Olivine-Type Nanosheets for Lithium Ion Battery Cathodes. ACS Nano, 2013, 7, 5637-5646.	7.3	210
2080	Synthesis of MnO2-polyaniline nanofiber composites to produce high conductive polymer. Synthetic Metals, 2013, 172, 49-53.	2.1	27
2081	Stable Li-ion battery anodes by in-situ polymerization of conducting hydrogel to conformally coat silicon nanoparticles. Nature Communications, 2013, 4, 1943.	5.8	1,138
2082	Characterization of niobium and vanadium oxide nanocomposites with improved rate performance and cycling stability. Electrochimica Acta, 2013, 102, 351-357.	2.6	20
2083	Ultrafast charge and discharge biscrolled yarn supercapacitors for textiles and microdevices. Nature Communications, 2013, 4, 1970.	5.8	475
2084	Ferrocene as precursor for carbon-coated Î±-Fe2O3 nano-particles for rechargeable lithium batteries. Journal of Power Sources, 2013, 230, 44-49.	4.0	67
2085	Ordered mesoporous nickel cobaltite spinel with ultra-high supercapacitance. Journal of Materials Chemistry A, 2013, 1, 2331.	5.2	99
2086	Template-Free Synthesis of Amorphous Double-Shelled Zincâ€“Cobalt Citrate Hollow Microspheres and Their Transformation to Crystalline ZnCo₂O₄ Microspheres. ACS Applied Materials & Interfaces, 2013, 5, 5508-5517.	4.0	114
2087	Li₄Ti₅O₁₂ Nanocrystals Synthesized by Carbon Templating from Solution Precursors Yield High Performance Thin Film Liâ€Ion Battery Electrodes. Advanced Energy Materials, 2013, 3, 753-761.	10.2	68
2088	A new carbonaceous material derived from biomass source peels as an improved anode for lithium ion batteries. Journal of Analytical and Applied Pyrolysis, 2013, 100, 181-185.	2.6	88
2089	Electrochemical and electrical performances of cobalt chloride (CoCl2) doped polyaniline (PANI)/graphene nanoplate (GNP) composite. RSC Advances, 2013, 3, 12874.	1.7	33
2090	Coaxial Fe3O4/CuO hybrid nanowires as ultra fast charge/discharge lithium-ion battery anodes. Journal of Materials Chemistry A, 2013, 1, 8672.	5.2	76

#	Article	IF	Citations
2091	A low-cost and high performance ball-milled Si-based negative electrode for high-energy Li-ion batteries. Energy and Environmental Science, 2013, 6, 2145.	15.6	274
2092	Facile Microstructure Control of Mesoporous Co_{1.29}Ni_{1.71}O₄ and the Effect of the Microstructure on Lithiumâ€Storage Performance. Chemistry - A European Journal, 2013, 19, 10193-10200.	1.7	28
2093	Controlled synthesis of skein shaped TiO2â€“B nanotube cluster particles with outstanding rate capability. Chemical Communications, 2013, 49, 2326.	2.2	32
2094	Direct In Situ Probe of Electrochemical Processes in Operating Fuel Cells. ACS Nano, 2013, 7, 6330-6336.	7.3	18
2095	Effect of fiber orientation in gelled poly(vinylidene fluoride) electrospun membranes for Li-ion battery applications. Journal of Materials Science, 2013, 48, 6833-6840.	1.7	20
2096	Three-Dimensional Hierarchical Ternary Nanostructures for High-Performance Li-Ion Battery Anodes. Nano Letters, 2013, 13, 3414-3419.	4.5	295
2097	Ultra-small Fe3O4 nanoparticle decorated graphene nanosheets with superior cyclic performance and rate capability. Nanoscale, 2013, 5, 6797.	2.8	73
2098	Unique coreâ€“shell structured SiO₂(Li⁺) nanoparticles for high-performance composite polymer electrolytes. Journal of Materials Chemistry A, 2013, 1, 395-401.	5.2	50
2099	Petal-like Li4Ti5O12â€“TiO2 nanosheets as high-performance anode materials for Li-ion batteries. Nanoscale, 2013, 5, 6936.	2.8	95
2100	Titanium silicide nanonet as a new material platform for advanced lithium ion battery applications. Chemical Communications, 2013, 49, 6470.	2.2	18
2101	3D-nanostructured scaffold electrodes based on single-walled carbon nanotubes and nanodiamonds for high performance biosensors. Carbon, 2013, 61, 349-356.	5.4	21
2102	Synthesis of micro-spherical Mn3O4 by controlled crystallization method. Powder Technology, 2013, 246, 723-727.	2.1	4
2105	Morphology control of CoCO3 crystals and their conversion to mesoporous Co3O4 for alkaline rechargeable batteries application. CrystEngComm, 2013, 15, 6101.	1.3	53
2106	Graphene-based Li-ion hybrid supercapacitors with ultrahigh performance. Nano Research, 2013, 6, 581-592.	5.8	204
2107	Identifying champion nanostructures for solar water-splitting. Nature Materials, 2013, 12, 842-849.	13.3	527
2108	Microstructures, phases, and properties of low melting BaOâ€“B2O3â€“ZnO glass films prepared by pulsed laser deposition. Journal of Non-Crystalline Solids, 2013, 371-372, 28-32.	1.5	3
2109	Photoconductivity and photovoltaic properties of polyaniline immobilized onto metallurgical porous silicon powder. Polymer International, 2013, 62, 1283-1292.	1.6	1
2110	Mesoporous titanium nitride supported Pt nanoparticles as high performance catalysts for methanol electrooxidation. Physical Chemistry Chemical Physics, 2013, 15, 1088-1092.	1.3	70

#	Article	IF	Citations
2111	Geometrically Controlled Nanoporous PdAu Bimetallic Catalysts with Tunable Pd/Au Ratio for Direct Ethanol Fuel Cells. ACS Catalysis, 2013, 3, 1220-1230.	5.5	152
2112	Acetylene black incorporated three-dimensional porous SnS2 nanoflowers with high performance for lithium storage. RSC Advances, 2013, 3, 3374.	1.7	70
2113	Nanoengineering Titania for High Rate Lithium Storage: A Review. Journal of Materials Science and Technology, 2013, 29, 97-122.	5.6	103
2114	Rationally Designed Hierarchical TiO₂@Fe₂O₃ Hollow Nanostructures for Improved Lithium Ion Storage. Advanced Energy Materials, 2013, 3, 737-743.	10.2	296
2115	Tailoring AgI nanoparticles for the assembly of AgI/BiOI hierarchical hybrids with size-dependent photocatalytic activities. Journal of Materials Chemistry A, 2013, 1, 7131.	5.2	124
2116	Mesoporous Chromium Nitride as High Performance Catalyst Support for Methanol Electrooxidation. Chemistry of Materials, 2013, 25, 1783-1787.	3.2	82
2117	Controlled synthesis of hierarchical graphene-wrapped TiO₂@Co₃O₄coaxial nanobelt arrays for high-performance lithium storage. Journal of Materials Chemistry A, 2013, 1, 273-281.	5.2	135
2118	Hydrogen sorption in orthorhombic Mg hydride at ultra-low temperature. International Journal of Hydrogen Energy, 2013, 38, 8328-8341.	3.8	36
2119	CuO/Cu2O composite hollow polyhedrons fabricated from metalâ€“organic framework templates for lithium-ion battery anodes with a long cycling life. Nanoscale, 2013, 5, 4186.	2.8	326
2120	Cobalt nanomountain array supported silicon film anode for high-performance lithium ion batteries. Electrochimica Acta, 2013, 88, 664-670.	2.6	42
2121	Partition and Structure of Aqueous NaCl and CaCl₂ Electrolytes in Carbon-Slit Electrodes. Journal of Physical Chemistry C, 2013, 117, 13609-13619.	1.5	43
2122	ZnO-template-mediated synthesis of three-dimensional coral-like MnO2 nanostructure for supercapacitors. Journal of Power Sources, 2013, 239, 393-398.	4.0	58
2123	Highly uniform deposition of MoO3 nanodots on multiwalled carbon nanotubes for improved performance of supercapacitors. Journal of Power Sources, 2013, 235, 187-192.	4.0	66
2124	Lithium Mobility in the Stannides Li₂CuSn₂ and Li₂AgSn₂. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 2790-2795.	0.6	12
2125	Self-Assembly of Soft Matter. Springer Theses, 2013, , 1-17.	0.0	0
2126	Facile dip coating processed graphene/MnO2 nanostructured sponges as high performance supercapacitor electrodes. Nano Energy, 2013, 2, 505-513.	8.2	187
2127	Fast lithium-ion insertion of TiO2 nanotube and graphene composites. Electrochimica Acta, 2013, 88, 847-857.	2.6	66
2128	Synthesis of Anatase TiO₂ Nanosheets with Enhanced Pseudocapacitive Contribution for Fast Lithium Storage. ACS Applied Materials & Interfaces, 2013, 5, 6285-6291.	4.0	92

#	Article	IF	Citations
2129	Electrochemical Performance of Allâ€Solidâ€State Li/S Batteries with Sulfurâ€Based Composite Electrodes Prepared by Mechanical Milling at High Temperature. Energy Technology, 2013, 1, 186-192.	1.8	83
2130	Hierarchically structured MnO2 nanowires supported on hollow Ni dendrites for high-performance supercapacitors. Nanoscale, 2013, 5, 4379.	2.8	111
2131	Porous graphene frame supported silicon@graphitic carbon via in situ solid-state synthesis for high-performance lithium-ion anodes. Journal of Materials Chemistry A, 2013, 1, 7601.	5.2	52
2132	Synthesis of carbon coated Li3V2(PO4)3/reduced graphene oxide composite for high-performance lithium ion batteries. Materials Research Bulletin, 2013, 48, 435-439.	2.7	19
2133	A novel solid composite polymer electrolyte based on poly(ethylene oxide) segmented polysulfone copolymers for rechargeable lithium batteries. Journal of Membrane Science, 2013, 425-426, 105-112.	4.1	119
2134	Controlling Size, Crystallinity, and Electrochemical Performance of Li₄Ti₅O₁₂ Nanocrystals. Chemistry of Materials, 2013, 25, 5023-5030.	3.2	59
2135	Structural Acidâ€“Base Chemistry in the Metallic State: How Î¼₃-Neutralization Drives Interfaces and Helices in Ti₂₁Mn₂₅. Inorganic Chemistry, 2013, 52, 8349-8359.	1.9	9
2136	Polyanilineâ€Coupled Multifunctional 2D Metal Oxide/Hydroxide Graphene Nanohybrids. Angewandte Chemie, 2013, 125, 12327-12331.	1.6	45
2137	Probing Porous Structure of Single Manganese Oxide Mesorods with Ionic Current. Journal of Physical Chemistry C, 2013, 117, 24836-24842.	1.5	7
2138	Synthesis of Amorphous FeOOH/Reduced Graphene Oxide Composite by Infrared Irradiation and Its Superior Lithium Storage Performance. ACS Applied Materials & Interfaces, 2013, 5, 10145-10150.	4.0	52
2139	Electrochemical properties of rapidly solidified Si-Ti-Ni(-Cu) base anode for Li-ion rechargeable batteries. Electronic Materials Letters, 2013, 9, 859-863.	1.0	6
2140	Synthesis of Na1.25V3O8 Nanobelts with Excellent Long-Term Stability for Rechargeable Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 11913-11917.	4.0	25
2142	Synergistic Effect of Hierarchical Nanostructured MoO₂/Co(OH)₂ with Largely Enhanced Pseudocapacitor Cyclability. Nano Letters, 2013, 13, 5685-5691.	4.5	186
2143	Nano Mg/MnO<inf>2</inf>-graphene storage cell for enhanced performance. , 2013, , .		0
2144	Carbon nanotube production and application in energy storage. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 234-245.	0.8	23
2145	DNA hydrogel-based supercapacitors operating in physiological fluids. Scientific Reports, 2013, 3, 1282.	1.6	195
2146	Long-Term Cycling Studies on Electrospun Carbon Nanofibers as Anode Material for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 12175-12184.	4.0	99
2147	CVD Derived Vanadium Oxide Nano-Sphere-Carbon Nanotube (CNT) Nano-Composite Hetero-Structures: High Energy Supercapacitors. Journal of the Electrochemical Society, 2013, 160, A1118-A1127.	1.3	22

#	Article	IF	Citations
2148	Local Structure, Electronic Behavior, and Electrocatalytic Reactivity of CO-Reduced Platinumâ€“Iron Oxide Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 26324-26333.	1.5	40
2149	Robust Cycling of Liâ€“O₂ Batteries through the Synergistic Effect of Blended Electrolytes. ChemSusChem, 2013, 6, 443-448.	3.6	43
2150	SBA-15 confined synthesis of TiNb2O7 nanoparticles for lithium-ion batteries. Nanoscale, 2013, 5, 11102.	2.8	119
2151	Comprehensive Insights into the Structural and Chemical Changes in Mixed-Anion FeOF Electrodes by Using Operando PDF and NMR Spectroscopy. Journal of the American Chemical Society, 2013, 135, 4070-4078.	6.6	124
2152	Commercialization Strategies for Industrial Applications of Nanomaterials in Building Construction. Advanced Materials Research, 2013, 829, 879-883.	0.3	8
2153	Nanocrystallinity and the Ordering of Nanoparticles in Two-Dimensional Superlattices: Controlled Formation of Either Core/Shell (Co/CoO) or Hollow CoO Nanocrystals. ACS Nano, 2013, 7, 1342-1350.	7.3	48
2154	Synthesis of hierarchical porous spinel nickel cobaltite nanoflakes for high performance electrochemical energy storage supercapacitors. RSC Advances, 2013, 3, 21386.	1.7	47
2155	Facile Synthesis of Ge@C Coreâ€“Shell Nanocomposites for Highâ€Performance Lithium Storage in Lithiumâ€Ion Batteries. Chemistry - an Asian Journal, 2013, 8, 3142-3146.	1.7	32
2156	Oxide interfaces with enhanced ion conductivity. MRS Bulletin, 2013, 38, 1056-1063.	1.7	37
2157	Mesoporous Ti_{0.5}Nb_{0.5}N Ternary Nitride as a Novel Noncarbon Support for Oxygen Reduction Reaction in Acid and Alkaline Electrolytes. Chemistry of Materials, 2013, 25, 3782-3784.	3.2	66
2158	Chemically modified ribbon edge stimulated H2 dissociation: a first-principles computational study. Physical Chemistry Chemical Physics, 2013, 15, 8054.	1.3	22
2159	Nanostructured electrode materials for electrochemical energy storage and conversion. Wiley Interdisciplinary Reviews: Energy and Environment, 2013, 2, 14-30.	1.9	46
2160	Progress in bismuth vanadate photoanodes for use in solar water oxidation. Chemical Society Reviews, 2013, 42, 2321-2337.	18.7	1,241
2161	A Stepâ€Wise Approach for Dual Nanoparticle Patterning via Block Copolymer Selfâ€Assembly. Advanced Functional Materials, 2013, 23, 483-490.	7.8	45
2162	A high energy and power density hybrid supercapacitor based on an advanced carbon-coated Li4Ti5O12 electrode. Journal of Power Sources, 2013, 221, 266-271.	4.0	183
2163	Advanced Gel Polymer Electrolyte for Lithium-Ion Polymer Batteries. , 2013, , .		8
2164	CONDUCTING-PROBE ATOMIC FORCE MICROSCOPY OF ELECTROCHEMICAL INTERFACES. World Scientific Series in Nanoscience and Nanotechnology, 2013, , 371-391.	0.1	2
2165	Hierarchical hollow Fe2O3 micro-flowers composed of porous nanosheets as high performance anodes for lithium-ion batteries. RSC Advances, 2013, 3, 20639.	1.7	28

#	Article	IF	Citations
2166	Fano correlation effect of optical response due to plasmonâ€“excitonâ€“plasmon interaction in an artificial hybrid molecule system. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 868.	0.9	6
2167	Nanoporous Gold Electrodes and Their Applications in Analytical Chemistry. , 2013, 2013, 1-21.		79
2168	Functionalization of Aligned Carbon Nanotubes to Enhance the Performance of Fuel Cell. Energies, 2013, 6, 6476-6486.	1.6	17
2169	Capacitive Mixing for Harvesting the Free Energy of Solutions at Different Concentrations. Entropy, 2013, 15, 1388-1407.	1.1	106
2170	Electrochemical Intercalation of Lithium into Thin Film of Stacked Tetratitanate Nanosheets Fabricated by Electrophoretic Deposition. Journal of the Electrochemical Society, 2013, 160, A293-A296.	1.3	6
2171	Design and Evaluation of a Three Dimensionally Ordered Macroporous Structure within a Highly Patterned Cylindrical Sn-Ni Electrode for Advanced Lithium Ion Batteries. Journal of Nanomaterials, 2013, 2013, 1-6.	1.5	4
2172	Graphene oxide-assisted synthesis of LiMn₂O₄ nanopowder. Polish Journal of Chemical Technology, 2013, 15, 15-19.	0.3	8
2173	Preliminary Study of WO₃ Nanostructures Produced via Facile Hydrothermal Synthesis Process for CO₂ Sensing. Applied Mechanics and Materials, 0, 431, 37-41.	0.2	7
2174	Anisotropic Compositional Expansion and Chemical Potential for Amorphous Lithiated Silicon under Stress Tensor. Scientific Reports, 2013, 3, 1615.	1.6	41
2175	A Durable Graphitic-Carbon Support for Pt and Pt₃Co Cathode Catalysts in Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2013, 160, F49-F59.	1.3	22
2176	Acid-assisted synthesis of dandelion-like rutile TiO2 and Li4Ti5O12 mesoporous spheres: towards an efficient lithium battery application. New Journal of Chemistry, 2013, 37, 1912.	1.4	9
2177	ELECTRODEPOSITION OF POLYPYRROLE/MnO₂ NANOCOMPOSITE ON GRAPHITE FELT AS FREE-STANDING ELECTRODE FOR SUPERCAPACITORS. Nano, 2013, 08, 1350020.	0.5	3
2178	Cu-Sn Thin Film as Anode for Thin Film Rechargeable Lithium-Ion Batteries. ECS Transactions, 2013, 50, 107-115.	0.3	0
2179	Nanostructured germanium prepared via ion beam modification. Journal of Materials Research, 2013, 28, 1633-1645.	1.2	17
2180	Porosity and cycling retention in composite-based three-dimensional disc electrodes for Li ion battery. Journal of Composite Materials, 2013, 47, 1677-1682.	1.2	0
2181	Nanostructured Materials for Energy-Related Applications. , 2013, , 1013-1038.		1
2182	Using tobacco mosaic virus template for the fabrication of three-dimensional hierarchical microbattery electrodes with high energy and high power density. , 2013, , .		1
2183	The Effect of PtRuIr Nanoparticle Crystallinity in Electrocatalytic Methanol Oxidation. Materials, 2013, 6, 1621-1631.	1.3	25

#	Article	IF	Citations
2184	A Review of Nanostructured TiO₂ Application in Li-Ion Batteries. Advanced Materials Research, 0, 750-752, 301-306.	0.3	20
2185	Synthesis and Electrochemical Properties of Novel Co2+/Co3+ Layered Ordered Rock-Salt Structure Type Li0.75Ca0.25CoOÂ2. ECS Transactions, 2013, 45, 3-10.	0.3	0
2186	Diffuse scattering intensity near the Bragg reflection in a (para)magnetic bulk face-centred cubic Ni3Fe-type permalloy. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, 475-482.	0.3	0
2187	Carbon-Supported PtRuMo Electrocatalysts for Direct Alcohol Fuel Cells. Catalysts, 2013, 3, 811-838.	1.6	12
2188	Nonlinear-Electronic Transport in Thin-Films Grown from Grain-Oriented Iron Foils. Advances in Materials Science and Engineering, 2013, 2013, 1-8.	1.0	3
2189	Multifunctional Co₃S₄/Graphene Composites for Lithium Ion Batteries and Oxygen Reduction Reaction. Chemistry - A European Journal, 2013, 19, 5183-5190.	1.7	219
2190	Carbon inverse opal entrapped with electrode active nanoparticles as high-performance anode for lithium-ion batteries. Scientific Reports, 2013, 3, 2317.	1.6	77
2191	Camphoric Carbonâ€Grafted Ni/NiO Nanowire Electrodes for Highâ€Performance Energyâ€Storage Systems. ChemPlusChem, 2013, 78, 1258-1265.	1.3	20
2192	Direct Transcription of Twoâ€Dimensional Colloidal Crystal Arrays into Threeâ€Dimensional Photonic Crystals. Advanced Functional Materials, 2013, 23, 1164-1171.	7.8	33
2193	Mesoporous Anatase TiO₂ Nanorods as Thermally Robust Anode Materials for Liâ€Ion Batteries: Detailed Insight into the Formation Mechanism. Chemistry - A European Journal, 2013, 19, 17439-17444.	1.7	15
2194	Fast Ionic Diffusion-Enabled Nanoflake Electrode by Spontaneous Electrochemical Pre-Intercalation for High-Performance Supercapacitor. Scientific Reports, 2013, 3, .	1.6	182
2195	NMR study of photoâ€crosslinked solid polymer electrolytes: The influence of monofunctional oligoethers. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1571-1580.	2.4	7
2196	Design and Synthesis of 3D Ordered Macroporous CeO₂â€Supported Pt@CeO_{2â€Ï‘} Coreâ€“Shell Nanoparticle Materials for Enhanced Catalytic Activity of Soot Oxidation. Small, 2013, 9, 3957-3963.	5.2	76
2197	Directed Transport as a Route to Improved Performance in Micropore-Modified Encapsulated Multilayer Silicon Electrodes. Journal of the Electrochemical Society, 2013, 160, A1746-A1752.	1.3	1
2198	The Interesting Influence of Nanosprings on the Viscoelasticity of Elastomeric Polymer Materials: Simulation and Experiment. Advanced Functional Materials, 2013, 23, 1156-1163.	7.8	85
2199	Study of LiCoO2 nanoparticles by hard x-ray emission and absorption spectroscopies. Applied Physics Letters, 2013, 103, .	1.5	8
2200	Ammoniaâ€Annealed TiO₂ as a Negative Electrode Material in Liâ€Ion Batteries: N Doping or Oxygen Deficiency?. Chemistry - A European Journal, 2013, 19, 14194-14199.	1.7	39
2201	NANOPOROUS COPPERâ€“SILICON COMPOSITE PREPARED BY CHEMICAL DEALLOYING AS ANODE MATERIAL FOR LITHIUM-ION BATTERIES. Functional Materials Letters, 2013, 06, 1350033.	0.7	4

#	Article	IF	Citations
2202	Origins of electrochemical performance of olivine phosphate as cathodes in Li-ion batteries: Charge transfer, spin-state, and structural distortion. Journal of Renewable and Sustainable Energy, 2013, 5, 053130.	0.8	7
2203	SYNTHESIS OF SUB-MICROMETER CARBON SUPPORTED Fe3O4 HOLLOW SPHERES WITH ENHANCED LITHIUM STORAGE PROPERTIES. Journal of Molecular and Engineering Materials, 2013, 01, 1340018.	0.9	0
2204	Cobalt monoxide-doped porous graphitic carbon microspheres for supercapacitor application. Scientific Reports, 2013, 3, 2925.	1.6	46
2205	Synthesis, Characterization and Pseudocapacitive Behaviour of MnOx/CNT Heterostructures. Materials Research Society Symposia Proceedings, 2013, 1577, 1.	0.1	1
2206	SURFACE DECORATION OF COMMERCIAL GRAPHITE MICROSPHERES WITH SMALL Si/C MICROSPHERES AS IMPROVED ANODE MATERIALS FOR Li-ION BATTERIES. Journal of Molecular and Engineering Materials, 2013, 01, 1340017.	0.9	0
2207	High Performance Lithium-ion Battery Electrode: Silicon Coated on Vertically Aligned Carbon Nanofibers. Materials Research Society Symposia Proceedings, 2013, 1541, 73901.	0.1	0
2208	Fabrication and electrochemical performance of lithium polymer battery using mesoporous silica/polymer hybrid electrolyte. Journal of the Ceramic Society of Japan, 2013, 121, 723-729.	0.5	5
2209	IONIC LIQUID CATALYZED ELECTROLYTE FOR ELECTROCHEMICAL POLYANILINE SUPERCAPACITORS. , 2013, , .		0
2210	Microfabrication of Nanoporous Gold Patterns for Cell-material Interaction Studies. Journal of Visualized Experiments, 2013, , e50678.	0.2	13
2213	Unwrapping Coreâ€“Shell Nanowires into Nanoribbonâ€Based Superstructures. Angewandte Chemie - International Edition, 2013, 52, 11298-11302.	7.2	4
2214	Shear-induced failure in jammed nanoparticle assemblies. , 2013, , .		1
2215	Designed Synthesis of Transition Metal/Oxide Hierarchical Peapods Array with the Superior Lithium Storage Performance. Scientific Reports, 2013, 3, 2717.	1.6	19
2216	Environmentally Compatible Synthesis of Superparamagnetic Magnetite (Fe3O4) Nanoparticles with Prehydrolysate from Corn Stover. BioResources, 2013, 9, .	0.5	5
2217	Environmental Pollution and Nanotechnology. Environment and Pollution, 2013, 2, .	0.2	71
2218	Carbon Nanotubes for Energy Applications. , 0, , .		12
2219	Vanadium Based Nanoelectrode Materials in Energy Storage Systems. Nanoscience and Nanotechnology - Asia, 2013, 3, 3-10.	0.3	4
2221	Energy Storage: Battery Materials and Architectures at the Nanoscale. , 0, , .		4
2223	The effect of V2O5/C additive on the suppression of polysulfide dissolution in Li-sulfur batteries. Journal of Electroceramics, 2014, 33, 142-148.	0.8	14

#	Article	IF	Citations
2225	Nanocomposite polymer electrolytes comprising PVA-graft-PEGME/TiO₂ for Li-ion batteries. Journal of Materials Research, 2014, 29, 625-632.	1.2	16
2226	Threeâ€Dimensional Porous Carbonâ€“Silicon Frameworks as Highâ€Performance Anodes for Lithiumâ€Ion Batteries. ChemElectroChem, 2014, 1, 2124-2130.	1.7	35
2227	Mechano-Electrochemical Model for Acoustic Emission Characterization in Intercalation Electrodes. Journal of the Electrochemical Society, 2014, 161, F3123-F3136.	1.3	23
2228	Towards an understanding of the role of hyper-branched oligomers coated on cathodes, in the safety mechanism of lithium-ion batteries. RSC Advances, 2014, 4, 56147-56155.	1.7	24
2230	Tin Microspheres Grown on Carbon Cloth as Binderâ€Free Integrated Anode for High Capacity Lithium Storage. Energy Technology, 2014, 2, 370-375.	1.8	10
2231	Electrospun Cu/Sn/C Nanocomposite Fiber Anodes with Superior Usable Lifetime for Lithiumâ€and Sodiumâ€Ion Batteries. Chemistry - an Asian Journal, 2014, 9, 3313-3318.	1.7	18
2232	High-rate lithium-ion battery anodes based on silicon-coated vertically aligned carbon nanofibers. , 2014, , .		1
2233	Promotion of Mesoporous Vanadium Carbide Incorporated on Resorcinolâ€“Formaldehyde Resin Carbon Composites with Highâ€Surfaceâ€Areas on Platinum Catalysts for Methanol Electrooxidation. ChemCatChem, 2014, 6, 3387-3395.	1.8	6
2234	Electrochemical Performance and Resistance Analysis of Li3V2(PO4)3/C Composite Cathode for Li Ion Battery. Metallurgical and Materials Transactions E, 2014, 1, 281-285.	0.5	0
2235	Graphene-wrapped Fe2O3 nanorings for Li ion battery anodes. Science Bulletin, 2014, 59, 4271-4273.	1.7	14
2236	Electrodeposited ZnO with squaraine sentisizers as photoactive anode of DSCs. Materials Research Express, 2014, 1, 015040.	0.8	44
2237	Synthesis and Mossbauer studies of mesoporous Î³-Fe2O3. Materials Science-Poland, 2014, 32, 481-486.	0.4	13
2241	Role of nanostructures on SOFC performance at reduced temperatures. MRS Bulletin, 2014, 39, 783-791.	1.7	48
2242	General Approach for Highâ€Power Liâ€Ion Batteries: Multiscale Lithographic Patterning of Electrodes. ChemSusChem, 2014, 7, 3483-3490.	3.6	16
2243	A Universal and Facile Way for the Development of Superior Bifunctional Electrocatalysts for Oxygen Reduction and Evolution Reactions Utilizing the Synergistic Effect. Chemistry - A European Journal, 2014, 20, 15533-15542.	1.7	87
2244	Effect of nano-filler on the performance of multiwalled carbon nanotubes based electrochemical double layer capacitors. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	4
2245	Enhancing the Electrochemical Performance of the LiMn₂O₄ Hollow Microsphere Cathode with a LiNi_{0.5}Mn_{1.5}O₄ Coated Layer. Chemistry - A European Journal, 2014, 20, 824-830.	1.7	53
2247	Pdâ€“Cu Bimetallic Tripods: A Mechanistic Understanding of the Synthesis and Their Enhanced Electrocatalytic Activity for Formic Acid Oxidation. Advanced Functional Materials, 2014, 24, 7520-7529.	7.8	134

#	Article	IF	Citations
2248	Functional Carbon Nanotube/Mesoporous Carbon/MnO2Hybrid Network for High-Performance Supercapacitors. Journal of Nanomaterials, 2014, 2014, 1-6.	1.5	7
2249	Functional Nanomaterials for Optoelectric Conversion and Energy Storage 2014. Journal of Nanomaterials, 2014, 2014, 1-2.	1.5	2
2250	Synthesis of Hierarchical CoO Nano/Microstructures as Anode Materials for Lithium-Ion Batteries. Journal of Nanomaterials, 2014, 2014, 1-5.	1.5	11
2251	Recombinant Materials and Contemporary Energy Efficient Architecture. Advanced Materials Research, 0, 936, 1423-1427.	0.3	3
2252	High performance Li_{1Â·2}(Mn_{0Â·54}Co_{0Â·13}Ni_{0Â·13})O₂with AlF₃/carbon hybrid shell for lithium ion batteries. Materials Technology, 2014, 29, A70-A76.	1.5	6
2253	High di-electric constant nano-structure ceramics synthesis using novel electric discharge assisted mechanical milling and magneto ball milling and its properties. International Journal of Nanotechnology, 2014, 11, 728.	0.1	1
2254	Full capacitance potential of SWCNT electrode in ionic liquids at 4 V. Journal of Materials Chemistry A, 2014, 2, 19897-19902.	5.2	17
2255	Observation of high-spin mixed oxidation state of cobalt in ceramic Co3TeO6. Journal of Applied Physics, 2014, 116, .	1.1	21
2256	Multi-scale simulation of the stability and diffusion of lithium in the presence of a 90Â° partial dislocation in silicon. Journal of Applied Physics, 2014, 116, 213504.	1.1	5
2257	Cathodes - Technological review. , 2014, , .		5
2258	Preparation and electrochemical evaluation of NiO nanoplatelet-based materials for lithium storage. Journal of Materials Research, 2014, 29, 1393-1400.	1.2	5
2259	Lithium diffusion at Si-C interfaces in silicon-graphene composites. Applied Physics Letters, 2014, 105, .	1.5	5
2260	Realizing a supercapacitor in an electrical circuit. Applied Physics Letters, 2014, 105, .	1.5	3
2261	Low-cost industrial by-products as precursors for $$hbox {LiFePO}_{4}$$ LiFePO 4 synthesis. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	2
2262	Morphology Effects on the Supercapacitive Electrochemical Performances of Iron Oxide/Reduced Graphene Oxide Nanocomposites. ChemElectroChem, 2014, 1, 747-754.	1.7	26
2263	Do Agn (up to n = 8) clusters retain their identity on graphite? Insights from first-principles calculations including dispersion interactions. Journal of Chemical Physics, 2014, 140, 164705.	1.2	13
2264	Template assisted fabrication of free-standing MnO2 nanotube and nanowire arrays and their application in supercapacitors. Applied Physics Letters, 2014, 104, .	1.5	73
2265	Improvement of desolvation and resilience of alginate binders for Si-based anodes in a lithium ion battery by calcium-mediated cross-linking. Physical Chemistry Chemical Physics, 2014, 16, 25628-25635.	1.3	106

#	Article	IF	Citations
2266	Hierarchical mesoporous/microporous carbon with graphitized frameworks for high-performance lithium-ion batteries. APL Materials, 2014, 2, 113302.	2.2	17
2267	Comparative Study of Two Protic Ionic Liquids as Electrolyte for Electrical Double-Layer Capacitors. Journal of the Electrochemical Society, 2014, 161, A228-A238.	1.3	39
2268	TiO₂â€"B Nanosheets/Anatase Nanocrystals Coâ€Anchored on Nanoporous Graphene: In Situ Reductionâ€"Hydrolysis Synthesis and Their Superior Rate Performance as an Anode Material. Chemistry - A European Journal, 2014, 20, 1383-1388.	1.7	53
2269	ZnTe and ZnTe/C nanocomposite: a new electrode material for high-performance rechargeable Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 20075-20082.	5.2	46
2270	Macroporous Fe₃O₄/Carbon Composite Microspheres with a Short Li⁺ Diffusion Pathway for the Fast Charge/Discharge of Lithium Ion Batteries. Chemistry - A European Journal, 2014, 20, 11078-11083.	1.7	36
2271	Iron Fluoride Hollow Porous Microspheres: Facile Solutionâ€Phase Synthesis and Their Application for Liâ€Ion Battery Cathodes. Chemistry - A European Journal, 2014, 20, 5815-5820.	1.7	52
2272	Rational Design of Ni Nanoparticles on Nâ€Rich Ultrathin Carbon Nanosheets for Highâ€Performance Supercapacitor Materials: Embeddedâ€•Versus Anchoredâ€Type Dispersion. Chemistry - A European Journal, 2014, 20, 5046-5053.	1.7	37
2273	High-Performance Lithium-Ion Battery and Symmetric Supercapacitors Based on FeCo₂O₄ Nanoflakes Electrodes. ACS Applied Materials & Interfaces, 2014, 6, 22701-22708.	4.0	230
2274	Nanowires for High-Performance Li-Ion Battery Electrodes. RSC Smart Materials, 2014, , 363-399.	0.1	0
2275	Synthesis of Singleâ€Crystalline Spinel LiMn₂O₄ Nanorods for Lithiumâ€Ion Batteries with High Rate Capability and Long Cycle Life. Chemistry - A European Journal, 2014, 20, 17125-17131.	1.7	32
2276	In Situ Study of Nanostructure and Electrical Resistance of Nanocluster Films Irradiated with Ion Beams. Advanced Functional Materials, 2014, 24, 6210-6218.	7.8	14
2277	Formation of quasi-mesocrystal ZnMn₂O₄ twin microspheres via an oriented attachment for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 14236-14244.	5.2	89
2278	Facet-Dependent Disorder in Pristine High-Voltage Lithiumâ€"Manganese-Rich Cathode Material. ACS Nano, 2014, 8, 12710-12716.	7.3	71
2279	Templateâ€Free Fabrication of Hollow NiOâ€"Carbon Hybrid Nanoparticle Aggregates with Improved Lithium Storage. Particle and Particle Systems Characterization, 2014, 31, 374-381.	1.2	26
2280	Compositionâ€Tailored 2â€‰D Mn_{1â^'x}Ru_xO₂ Nanosheets and Their Reassembled Nanocomposites: Improvement of Electrode Performance upon Ru Substitution. Chemistry - A European Journal, 2014, 20, 5132-5140.	1.7	26
2282	Electrodeposited porous metal oxide films with interconnected nanoparticles applied as anode of lithium ion battery. Materials Research Bulletin, 2014, 60, 864-867.	2.7	2
2283	Sprayâ€Painted Binderâ€Free SnSe Electrodes for Highâ€Performance Energyâ€Storage Devices. ChemSusChem, 2014, 7, 308-313.	3.6	81
2284	General Scalable Strategy toward Heterogeneously Doped Hierarchical Porous Graphitic Carbon Bubbles for Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2014, 6, 21661-21668.	4.0	48

#	Article	IF	Citations
2285	Bioinspired nanoscale materials for biomedical and energy applications. Journal of the Royal Society Interface, 2014, 11, 20131067.	1.5	45
2286	Anomalous Surface Fatigue in a Nanoâ€Layered Material. Advanced Materials, 2014, 26, 6478-6482.	11.1	3
2287	Synthesis of polypyrroleâ€“titanium dioxide brush-like nanocomposites with enhanced supercapacitive performance. RSC Advances, 2014, 4, 63719-63724.	1.7	16
2288	Hierarchical Î±â€MnO₂ Nanowires@Ni_{1â€x}Mn_xO_y Nanoflakes Coreâ€“Shell Nanostructures for Supercapacitors. Small, 2014, 10, 3181-3186.	5.2	118
2289	Enhanced Cycle Stability of Magnetite/Carbon Nanoparticles for Li Ion Battery Electrodes. Journal of the American Ceramic Society, 2014, 97, 1413-1420.	1.9	10
2290	A hierarchical porous carbon membrane from polyacrylonitrile/polyvinylpyrrolidone blending membranes: Preparation, characterization and electrochemical capacitive performance. Journal of Energy Chemistry, 2014, 23, 684-693.	7.1	41
2291	Lithium Intercalation in Core-Shell Materialsâ€“Theoretical Analysis. Journal of the Electrochemical Society, 2014, 161, A682-A692.	1.3	6
2292	Mesoscale Elucidation of the Influence of Mixing Sequence in Electrode Processing. Langmuir, 2014, 30, 15102-15113.	1.6	44
2293	Nanostructured transition metal sulfides for lithium ion batteries: Progress and challenges. Nano Today, 2014, 9, 604-630.	6.2	545
2294	Threeâ€Dimensional Hierarchical Nanoporosity for Ultrahigh Power and Excellent Cyclability of Electrochemical Pseudocapacitors. Advanced Energy Materials, 2014, 4, 1301809.	10.2	27
2295	Enhancing the capacitive performance of a textile-based CNT supercapacitor. RSC Advances, 2014, 4, 64890-64900.	1.7	46
2296	Ultrahigh Rate Capabilities of Lithiumâ€Ion Batteries from 3D Ordered Hierarchically Porous Electrodes with Entrapped Active Nanoparticles Configuration. Advanced Materials, 2014, 26, 1296-1303.	11.1	138
2297	Nanostructured oxyspinel multilayers for novel high-efficient conversion and control. International Journal of Nanotechnology, 2014, 11, 843.	0.1	29
2298	A chemo-mechanical model of lithiation in silicon. Journal of the Mechanics and Physics of Solids, 2014, 70, 349-361.	2.3	181
2299	Electrochemically induced and orientation dependent crack propagation in single crystal silicon. Journal of Power Sources, 2014, 267, 739-743.	4.0	21
2300	Sizeâ€Dependent Electrochemical Magnesium Storage Performance of Spinel Lithium Titanate. Chemistry - an Asian Journal, 2014, 9, 2099-2102.	1.7	38
2301	Polycrystalline Vanadium Oxide Nanorods: Growth, Structure and Improved Electrochemical Response as a Li-Ion Battery Cathode Material. Journal of the Electrochemical Society, 2014, 161, A1321-A1329.	1.3	31
2302	Electrospun Conformal Li₄Ti₅O₁₂/C Fibers for Highâ€Rate Lithiumâ€Ion Batteries. ChemElectroChem, 2014, 1, 611-616.	1.7	43

#	Article	IF	Citations
2303	The possibility of optical excitations at the smallest gap of Cu-delafossite nanocrystals. Journal Physics D: Applied Physics, 2014, 47, 405301.	1.3	0
2304	A Flexible micro-supercapacitor based on a pen ink-carbon fiber thread. Journal of Materials Chemistry A, 2014, 2, 19665-19669.	5.2	69
2305	Anode performance of lithiumâ€“silicon alloy prepared by mechanical alloying for use in all-solid-state lithium secondary batteries. Japanese Journal of Applied Physics, 2014, 53, 08NK02.	0.8	12
2306	Cu-based materials as high-performance electrodes toward electrochemical energy storage. Functional Materials Letters, 2014, 07, 1430001.	0.7	22
2307	A Review on PEO Based Solid Polymer Electrolytes (SPEs) Complexed with LiX (X=Tf, BOB) for Rechargeable Lithium Ion Batteries. Materials Science Forum, 0, 807, 41-63.	0.3	21
2308	Porous Silicon as Nanostructured Anode Material for Lithium Ion Batteries. ECS Transactions, 2014, 62, 25-34.	0.3	2
2309	Evolution of atomic structure during nanoparticle formation. IUCrJ, 2014, 1, 165-171.	1.0	46
2310	Hierarchically Porous Carbon/MnO₂ Nanocomposites as High-Performance Electrode for Asymmetric Supercapacitors. Advanced Materials Research, 2014, 1070-1072, 530-533.	0.3	0
2311	Insitu Raman study of lithium-ion intercalation into microcrystalline graphite. Faraday Discussions, 2014, 172, 223-237.	1.6	271
2312	On-chip lithium cells for electrical and structural characterization of single nanowire electrodes. Nanotechnology, 2014, 25, 265402.	1.3	20
2313	An Agglomerate Model for the Impedance of Secondary Particle in Lithium-Ion Battery Electrode. Journal of the Electrochemical Society, 2014, 161, E3202-E3215.	1.3	47
2314	Recent advances in graphene-based planar micro-supercapacitors for on-chip energy storage. National Science Review, 2014, 1, 277-292.	4.6	298
2315	A coordinatively cross-linked polymeric network as a functional binder for high-performance silicon submicro-particle anodes in lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 19036-19045.	5.2	139
2316	Plane-interface-induced lignin-based nanosheets and its reinforcing effect on styrene-butadiene rubber. EXPRESS Polymer Letters, 2014, 8, 619-634.	1.1	36
2317	Fast Synthesis of Multilayer Carbon Nanotubes from Camphor Oil as an Energy Storage Material. BioMed Research International, 2014, 2014, 1-6.	0.9	36
2318	Tunable Nanodielectric Composites. Advances in Materials Science and Engineering, 2014, 2014, 1-6.	1.0	2
2319	Li₂MnO₃based Li-rich cathode materials: towards a better tomorrow of high energy lithium ion batteries. Materials Technology, 2014, 29, A59-A69.	1.5	22
2320	10. Solid polymer proton conducting electrolytes for fuel cells. , 2014, , 207-240.		1

#	Article	IF	Citations
2321	Graphitic Petal Electrodes for Allâ€Solidâ€State Flexible Supercapacitors. Advanced Energy Materials, 2014, 4, 1300515.	10.2	147
2322	Facilely synthesized porous NiCo2O4 flowerlike nanostructure for high-rate supercapacitors. Journal of Power Sources, 2014, 248, 28-36.	4.0	248
2323	Siliconâ€Based Nanomaterials for Lithiumâ€Ion Batteries: A Review. Advanced Energy Materials, 2014, 4, 1300882.	10.2	1,250
2324	Energy Storage from Dispersion Forces in Nanotubes. , 2014, , 789-806.		1
2325	Controllable synthesis of MoO3-deposited TiO2 nanotubes with enhanced lithium-ion intercalation performance. Journal of Power Sources, 2014, 246, 305-312.	4.0	64
2326	Graphene-based nanocomposites for energy storage and conversion in lithium batteries, supercapacitors and fuel cells. Journal of Materials Chemistry A, 2014, 2, 15-32.	5.2	427
2327	Scalable synthesis of Fe3O4/C composites with enhanced electrochemical performance as anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2014, 582, 563-568.	2.8	31
2328	Hollow triple-shelled SiO2/TiO2/polypyrrole nanospheres for enhanced lithium storage capability. Chemical Engineering Journal, 2014, 237, 380-386.	6.6	23
2329	Hollow Zn2SnO4 boxes wrapped with flexible graphene as anode materials for lithium batteries. Electrochimica Acta, 2014, 120, 128-132.	2.6	38
2330	Lithium niobate nanoflakes as electrodes for highly stable electrochemical supercapacitor devices. Materials Letters, 2014, 119, 84-87.	1.3	13
2331	Electrochemical behavior of LiMn2â^'Xâ^'YTiXFeYO4 as cathode material for Lithium ion batteries. Journal of Electroanalytical Chemistry, 2014, 720-721, 58-63.	1.9	13
2332	Synthesis and properties of novel TEMPO-contained polypyrrole derivatives as the cathode material of organic radical battery. Electrochimica Acta, 2014, 130, 148-155.	2.6	74
2333	Porous LiNi0.5Mn1.5O4 microspheres with different pore conditions: Preparation and application as cathode materials for lithium-ion batteries. Journal of Power Sources, 2014, 261, 93-100.	4.0	40
2334	Porous SnO2@C/graphene nanocomposite with 3D carbon conductive network as a superior anode material for lithium-ion batteries. Electrochimica Acta, 2014, 116, 103-110.	2.6	130
2335	Surface modification of LiV3O8 nanosheets via layer-by-layer self-assembly for high-performance rechargeable lithium batteries. Journal of Power Sources, 2014, 257, 319-324.	4.0	21
2336	Gold-coated silicon nanowireâ€“graphene coreâ€“shell composite film as a polymer binder-free anode for rechargeable lithium-ion batteries. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 61, 204-209.	1.3	16
2337	Structural and thermal analysis of in situ synthesized Câ€“WC nanocomposites. Ceramics International, 2014, 40, 5157-5164.	2.3	26
2338	Hierarchically porous micro-rod lithium-rich cathode material Li1.2Ni0.13Mn0.54Co0.13O2 for high performance lithium-ion batteries. Electrochimica Acta, 2014, 118, 67-74.	2.6	72

#	Article	IF	Citations
2339	Hierarchical nanocomposite electrodes based on titanium nitride and carbon nanotubes for micro-supercapacitors. Nano Energy, 2014, 7, 104-113.	8.2	132
2340	Facile synthesis of grapheneâ€“silicon nanocomposites with an advanced binder for high-performance lithium-ion battery anodes. Solid State Ionics, 2014, 254, 65-71.	1.3	89
2341	DNA-templated synthesis of nickel cobaltite oxide nanoflake for high-performance electrochemical capacitors. Electrochimica Acta, 2014, 121, 270-277.	2.6	17
2342	Cycling characteristics of lithium powder polymer cells assembled with cross-linked gel polymer electrolyte. Electrochimica Acta, 2014, 132, 1-6.	2.6	14
2343	Super-Long Life Supercapacitors Based on the Construction of Ni foam/graphene/Co3S4 Composite film hybrid electrodes. Electrochimica Acta, 2014, 132, 180-185.	2.6	84
2344	Chemically activated fungi-based porous carbons for hydrogen storage. Carbon, 2014, 75, 372-380.	5.4	106
2345	Binder-free, self-standing films of iron oxide nanoparticles deposited on ionic liquid functionalized carbon nanotubes for lithium-ion battery anodes. Materials Chemistry and Physics, 2014, 144, 396-401.	2.0	19
2346	A comparative study of lithium-storage performances of hematite: Nanotubes vs. nanorods. Journal of Power Sources, 2014, 245, 429-435.	4.0	62
2347	Poly(vinylidene fluoride)-based, co-polymer separator electrolyte membranes for lithium-ion battery systems. Journal of Power Sources, 2014, 245, 779-786.	4.0	139
2348	Two steps in situ structure fabrication of Niâ€“Al layered double hydroxide on Ni foam and its electrochemical performance for supercapacitors. Journal of Power Sources, 2014, 246, 747-753.	4.0	134
2349	Hierarchical nanowires for high-performance electrochemical energy storage. Frontiers of Physics, 2014, 9, 303-322.	2.4	20
2350	Conducting Polymer Nanowire Arrays for High Performance Supercapacitors. Small, 2014, 10, 14-31.	5.2	685
2351	Graphene for advanced Li/S and Li/air batteries. Journal of Materials Chemistry A, 2014, 2, 33-47.	5.2	166
2352	High-performance supercapacitors based on freestanding carbon-based composite paper electrodes. Journal of Power Sources, 2014, 246, 540-547.	4.0	28
2353	Al and/or Ni-doped nanomanganese dioxide with anisotropic expansion and their electrochemical characterisation in primary Liâ€“MnO2 batteries. Journal of Solid State Electrochemistry, 2014, 18, 1585-1591.	1.2	21
2354	Template growth of vertically aligned carbon nanotubes using self-assembled monolayers of SiO2 particles by Langmuirâ€“Blodgett technique. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	1
2355	Properties of Li4Ti5O12 as an anode material in non-flammable electrolytes. Journal of Applied Electrochemistry, 2014, 44, 245-253.	1.5	7
2356	Preparation and electrochemical performance of porous hematite (Î±-Fe2O3) nanostructures as supercapacitor electrode material. Journal of Solid State Electrochemistry, 2014, 18, 1057-1066.	1.2	84

#	Article	IF	Citations
2357	A comparison of sulfur loading method on the electrochemical performance of porous carbon/sulfur cathode material for lithiumâ€“sulfur battery. Journal of Solid State Electrochemistry, 2014, 18, 935-940.	1.2	15
2358	Mesoporous materials for clean energy technologies. Chemical Society Reviews, 2014, 43, 7681-7717.	18.7	422
2359	Where Do Batteries End and Supercapacitors Begin?. Science, 2014, 343, 1210-1211.	6.0	4,605
2360	Mechanical Control of Surface Adsorption by Nanoscale Cracking. Advanced Materials, 2014, 26, 3667-3672.	11.1	5
2361	Solution synthesis of metal oxides for electrochemical energy storage applications. Nanoscale, 2014, 6, 5008-5048.	2.8	363
2362	Electrodeposited polyethylenedioxythiophene with infiltrated gel electrolyte interface: a close contest of an all-solid-state supercapacitor with its liquid-state counterpart. Nanoscale, 2014, 6, 5944.	2.8	85
2363	Nano-engineering of three-dimensional core/shell nanotube arrays for high performance supercapacitors. Journal of Power Sources, 2014, 256, 37-42.	4.0	29
2364	Mixed Transitionâ€Metal Oxides: Design, Synthesis, and Energyâ€Related Applications. Angewandte Chemie - International Edition, 2014, 53, 1488-1504.	7.2	2,019
2365	Facile fabrication and perfect cycle stability of 3D NiO@CoMoO4 nanocomposite on Ni foam for supercapacitors. RSC Advances, 2014, 4, 17884.	1.7	51
2366	Strongly coupled carbon nanofiberâ€“metal oxide coaxial nanocables with enhanced lithium storage properties. Energy and Environmental Science, 2014, 7, 302-305.	15.6	144
2367	LiNi0.5Mn1.5O4 nanostructures with two-phase intergrowth as enhanced cathodes for lithium-ion batteries. Electrochimica Acta, 2014, 121, 253-257.	2.6	25
2368	Deformation and stress in electrode materials for Li-ion batteries. Progress in Materials Science, 2014, 63, 58-116.	16.0	531
2369	Gas phase synthesis and physicoâ€chemical properties of vanadium oxide nanoparticles. Ceramics International, 2014, 40, 7431-7437.	2.3	1
2370	Synthesis of hierarchically flower-like FeWO 4 as high performance anode materials for Li-ion batteries by a simple hydrothermal process. International Journal of Hydrogen Energy, 2014, 39, 16081-16087.	3.8	29
2371	Design and synthesis of ternary cobalt ferrite/graphene/polyaniline hierarchical nanocomposites for high-performance supercapacitors. Journal of Power Sources, 2014, 245, 937-946.	4.0	233
2372	Hollow and Yolkâ€Shell Iron Oxide Nanostructures on Fewâ€Layer Graphene in Liâ€Ion Batteries. Chemistry - A European Journal, 2014, 20, 2022-2030.	1.7	37
2373	Influence of the Nickel Oxide Nanostructure Morphology on the Effectiveness of Reduced Graphene Oxide Coating in Supercapacitor Electrodes. Journal of Physical Chemistry C, 2014, 118, 2281-2286.	1.5	66
2374	Enhanced performance of lithium sulfur battery with polypyrrole warped mesoporous carbon/sulfur composite. Journal of Power Sources, 2014, 254, 353-359.	4.0	140

#	Article	IF	Citations
2375	Top-down fabrication of three-dimensional porous V₂O₅ hierarchical microplates with tunable porosity for improved lithium battery performance. Journal of Materials Chemistry A, 2014, 2, 3297-3302.	5.2	76
2376	A pomegranate-inspired nanoscale design for large-volume-change lithium battery anodes. Nature Nanotechnology, 2014, 9, 187-192.	15.6	2,109
2377	Coal tar residues-based nanostructured activated carbon/Fe3O4 composite electrode materials for supercapacitors. Journal of Solid State Electrochemistry, 2014, 18, 665-672.	1.2	38
2378	Zn3V2O8 hexagon nanosheets: a high-performance anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 2461.	5.2	117
2379	Chitosan-ZnO/polyaniline ternary nanocomposite for high-performance supercapacitor. Ionics, 2014, 20, 551-561.	1.2	79
2380	Interface Chemistry Engineering of Proteinâ€Directed SnO₂ Nanocrystalâ€Based Anode for Lithiumâ€Ion Batteries with Improved Performance. Small, 2014, 10, 998-1007.	5.2	35
2381	Synthesis parameter dependence of the electrochemical performance of solvothermally synthesized Li4Ti5O12. Materials for Renewable and Sustainable Energy, 2014, 3, 1.	1.5	7
2382	Facile synthesis of rice shaped CuO nanostructures for battery application. Journal of Materials Science: Materials in Electronics, 2014, 25, 1441-1445.	1.1	14
2383	Nanomaterials for electrochemical energy storage. Frontiers of Physics, 2014, 9, 323-350.	2.4	86
2384	Preparation of TiO2(B) Nanosheets by a Hydrothermal Process and Their Application as an Anode for Lithium-Ion Batteries. Journal of Electronic Materials, 2014, 43, 1048-1054.	1.0	15
2385	Liquid precipitation synthesis of Co3O4 for high-performance electrochemical capacitors. Ionics, 2014, 20, 489-494.	1.2	14
2386	Graphene/MnO2 hybrid nanosheets as high performance electrode materials for supercapacitors. Materials Chemistry and Physics, 2014, 143, 740-746.	2.0	34
2387	Synthesis, Structure Transformation, and Electrochemical Properties of Li₂MgSi as a Novel Anode for Liâ€Ion Batteries. Advanced Functional Materials, 2014, 24, 3944-3952.	7.8	39
2388	Synthesis of nanosized cadmium oxide (CdO) as a novel high capacity anode material for Lithium-ion batteries: influence of carbon nanotubes decoration and binder choice. Electrochimica Acta, 2014, 129, 107-112.	2.6	34
2389	Enhanced performance of supercapacitors with ultrathin mesoporous NiMoO4 nanosheets. Electrochimica Acta, 2014, 125, 294-301.	2.6	116
2390	Lithium Insertion in Micrometer Sized Rutile TiO2at Room Temperature: Facilitated by Crystal Chemical Substitution. Journal of the Electrochemical Society, 2014, 161, A149-A153.	1.3	5
2391	Mesoporous Prussian Blue Analogues: Templateâ€Free Synthesis and Sodiumâ€Ion Battery Applications. Angewandte Chemie - International Edition, 2014, 53, 3134-3137.	7.2	253
2392	A Theoretical Study of the Effect of Zr-, Nb-Doped and Vacancy-like Defects on H Desorption on MgH₂ (110) Surface. Journal of Physical Chemistry C, 2014, 118, 4231-4237.	1.5	22

#	Article	IF	Citations
2393	A novel composite with highly dispersed Fe3O4 nanocrystals on ordered mesoporous carbon as an anode for lithium ion batteries. Journal of Alloys and Compounds, 2014, 585, 783-789.	2.8	46
2394	Preparation and electrochemical capacitive performance of polyaniline nanofiber-graphene oxide hybrids by oilâ€“water interfacial polymerization. Synthetic Metals, 2014, 189, 47-52.	2.1	18
2395	Super Longâ€Life Supercapacitors Based on the Construction of Nanohoneycombâ€Like Strongly Coupled CoMoO₄â€“3D Graphene Hybrid Electrodes. Advanced Materials, 2014, 26, 1044-1051.	11.1	630
2396	Facile hydrothermal synthesis of hierarchical ultrathin mesoporous NiMoO4 nanosheets for high performance supercapacitors. Electrochimica Acta, 2014, 115, 358-363.	2.6	110
2397	Net-structured Co3O4/C nanosheet array with enhanced electrochemical performance toward lithium storage. Materials Research Bulletin, 2014, 51, 112-118.	2.7	11
2398	Hollow LiMn₂O₄ Nanocones as Superior Cathode Materials for Lithiumâ€Ion Batteries with Enhanced Power and Cycle Performances. Small, 2014, 10, 1096-1100.	5.2	63
2399	Sodium dodecyl sulfate-assisted hydrothermal synthesis of mesoporous nickel cobaltite nanoparticles with enhanced catalytic activity for methanol electrooxidation. Journal of Power Sources, 2014, 251, 287-295.	4.0	72
2400	Reduced graphene oxide enwrapped vanadium pentoxide nanorods as cathode materials for lithium-ion batteries. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 231-237.	1.3	22
2401	Growth of vertically aligned hierarchical WO3 nano-architecture arrays on transparent conducting substrates with outstanding electrochromic performance. Solar Energy Materials and Solar Cells, 2014, 124, 103-110.	3.0	114
2402	Threeâ€Dimensionally â€œCurvedâ€•NiO Nanomembranes as Ultrahigh Rate Capability Anodes for Liâ€Ion Batteries with Long Cycle Lifetimes. Advanced Energy Materials, 2014, 4, 1300912.	10.2	263
2403	Coreâ€“Shell CuCo₂O₄@MnO₂ Nanowires on Carbon Fabrics as Highâ€Performance Materials for Flexible, Allâ€Solidâ€State, Electrochemical Capacitors. ChemElectroChem, 2014, 1, 559-564.	1.7	149
2404	Preparation of fluorine-doped, carbon-encapsulated hollow Fe3O4 spheres as an efficient anode material for Li-ion batteries. Nanoscale, 2014, 6, 3889.	2.8	81
2405	Ironâ€Oxideâ€Based Advanced Anode Materials for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2014, 4, 1300958.	10.2	498
2406	Recent Advances in Design and Fabrication of Electrochemical Supercapacitors with High Energy Densities. Advanced Energy Materials, 2014, 4, 1300816.	10.2	1,727
2407	Spinel ZnMn₂O₄ Nanocrystalâ€Anchored 3D Hierarchical Carbon Aerogel Hybrids as Anode Materials for Lithium Ion Batteries. Advanced Functional Materials, 2014, 24, 4176-4185.	7.8	150
2408	Conductive polyaniline capped Fe2O3 composite anode for high rate lithium ion batteries. Materials Chemistry and Physics, 2014, 146, 289-294.	2.0	27
2409	Fe3O4â€“CNTs nanocomposites: Inorganic dispersant assisted hydrothermal synthesis and application in lithium ion batteries. Journal of Solid State Chemistry, 2014, 213, 104-109.	1.4	25
2410	High-performance supercapacitor electrode based on amorphous mesoporous Ni(OH)2 nanoboxes. Journal of Power Sources, 2014, 262, 344-348.	4.0	133

#	Article	IF	Citations
2411	Nanocarbon Electrocatalysts for Oxygen Reduction in Alkaline Media for Advanced Energy Conversion and Storage. Advanced Energy Materials, 2014, 4, 1301415.	10.2	351
2412	On the origin of the significant difference in lithiation behavior between silicon and germanium. Journal of Power Sources, 2014, 263, 252-258.	4.0	44
2413	Controlling Pt loading and carbon matrix thickness for a high performance Pt-nanowire catalyst layer in PEMFCs. International Journal of Hydrogen Energy, 2014, 39, 3397-3403.	3.8	23
2414	Co/Al layered double hydroxides nanostructures: A binderless electrode for electrochemical capacitor. Electrochemistry Communications, 2014, 43, 9-12.	2.3	26
2415	Single-Crystalline LiFePO₄ Nanosheets for High-Rate Li-Ion Batteries. Nano Letters, 2014, 14, 2849-2853.	4.5	308
2416	Stochastic Electronics: A Neuro-Inspired Design Paradigm for Integrated Circuits. Proceedings of the IEEE, 2014, 102, 843-859.	16.4	59
2417	Synthesis of pod-like Cu2O nanowire arrays on Cu substrate. Materials Letters, 2014, 120, 212-215.	1.3	11
2418	Bio-Inspired Nanotechnology. , 2014, , .		13
2419	A germanium/single-walled carbon nanotube composite paper as a free-standing anode for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 4613.	5.2	37
2420	Trap-Free Transport in Ordered and Disordered TiO₂ Nanostructures. Nano Letters, 2014, 14, 2305-2309.	4.5	61
2421	Heat flow at nanoparticle interfaces. Nano Energy, 2014, 6, 137-158.	8.2	128
2422	Magnetocapacitance in magnetic microtubular carbon nanocomposites under external magnetic field. Nano Energy, 2014, 6, 180-192.	8.2	64
2423	Preparation of carbon-coated iron oxide nanoparticles dispersed on graphene sheets and applications as advanced anode materials for lithium-ion batteries. Nano Research, 2014, 7, 502-510.	5.8	102
2424	Larger-scale fabrication of N-doped graphene-fiber mats used in high-performance energy storage. Journal of Power Sources, 2014, 252, 113-121.	4.0	49
2425	Electrochemical Performance of Carbon Nanorods with Embedded Cobalt Metal Nanoparticles as an Electrode Material for Electrochemical Capacitors. Electrochimica Acta, 2014, 125, 232-240.	2.6	52
2426	Facile synthesis of nanocrystalline LiFePO4/graphene composite as cathode material for high power lithium ion batteries. Electrochimica Acta, 2014, 130, 594-599.	2.6	31
2427	Electrospun Functional Nanofibers and Their Applications in Chemical Sensors and Li-Ion Batteries. , 2014, , 793-838.		4
2428	Theoretical guidelines to designing high performance energy storage device based on hybridization of lithium-ion battery and supercapacitor. Journal of Power Sources, 2014, 259, 1-14.	4.0	62

#	Article	IF	Citations
2429	Composite graphene/semiconductor nanostructures for energy storage. , 2014, , 213-266.		2
2430	Inâ€...Situ Studies of Solvothermal Synthesis of Energy Materials. ChemSusChem, 2014, 7, 1594-1611.	3.6	128
2431	Graphene and Grapheneâ€Based Materials for Energy Storage Applications. Small, 2014, 10, 3480-3498.	5.2	653
2432	Nanostructured Electrode Materials for Lithium-Ion Batteries. , 2014, , 57-82.		11
2433	Electrochemical dealloying using pulsed voltage waveforms and its application for supercapacitor electrodes. Journal of Power Sources, 2014, 257, 374-379.	4.0	25
2434	Microwave hydrothermal synthesis of urchin-like NiO nanospheres as electrode materials for lithium-ion batteries and supercapacitors with enhanced electrochemical performances. Journal of Alloys and Compounds, 2014, 582, 522-527.	2.8	48
2435	Boron-doped TiO2 anode materials for high-rate lithium ion batteries. Journal of Alloys and Compounds, 2014, 604, 226-232.	2.8	80
2436	Polyaniline Grafted Amino-Functionalized Graphene Nanocomposite with Excellent Electrochemical Performance for Supercapacitor Electrode Materials. Materials Science Forum, 2014, 789, 12-17.	0.3	0
2437	A novel design of Super-Capacitor used to enhance solar-energy restoration of photo-voltaic cells. , 2014, , .		0
2438	Ultrafast and scalable laser liquid synthesis of tin oxide nanotubes and its application in lithium ion batteries. Nanoscale, 2014, 6, 5853-5858.	2.8	36
2439	Challenges of â€œGoing Nanoâ€• Enhanced Electrochemical Performance of Cobalt Oxide Nanoparticles by Carbothermal Reduction and In Situ Carbon Coating. ChemPhysChem, 2014, 15, 2177-2185.	1.0	38
2440	Citric acid aided synthesis, characterization, and high-rate electrochemical performance of LiNi0.5Mn1.5O4. Electrochimica Acta, 2014, 134, 442-449.	2.6	32
2441	Probing charge screening dynamics and electrochemical processes at the solidâ€“liquid interface with electrochemical force microscopy. Nature Communications, 2014, 5, 3871.	5.8	97
2442	Improving the performance of lithiumâ€“sulfur batteries using conductive polymer and micrometric sulfur powder. Journal of Materials Research, 2014, 29, 1027-1033.	1.2	40
2443	Preparation of Li₄Ti₅O₁₂ Yolkâ€“Shell Powders by Spray Pyrolysis and their Electrochemical Properties. Chemistry - an Asian Journal, 2014, 9, 443-446.	1.7	23
2444	Threeâ€Dimensional Structural Engineering for Energyâ€Storage Devices: From Microscope to Macroscope. ChemElectroChem, 2014, 1, 975-1002.	1.7	53
2445	Synergistic Catalytic Effect of MoS₂ Nanoparticles Supported on Gold Nanoparticle Films for a Highly Efficient Oxygen Reduction Reaction. ChemCatChem, 2014, 6, 1877-1881.	1.8	46
2446	Self-Assembly of Co₃V₂O₈ Multilayered Nanosheets: Controllable Synthesis, Excellent Li-Storage Properties, and Investigation of Electrochemical Mechanism. ACS Nano, 2014, 8, 4474-4487.	7.3	229

#	Article	IF	Citations
2447	A Flexible and Highâ€Voltage Internal Tandem Supercapacitor Based on Grapheneâ€Based Porous Materials with Ultrahigh Energy Density. Small, 2014, 10, 2285-2292.	5.2	56
2448	The Shape of TiO₂-B Nanoparticles. Journal of the American Chemical Society, 2014, 136, 6306-6312.	6.6	33
2449	Significantly Enhancing Supercapacitive Performance of Nitrogen-doped Graphene Nanosheet Electrodes by Phosphoric Acid Activation. ACS Applied Materials & Interfaces, 2014, 6, 1563-1568.	4.0	57
2450	Filling the Voids of Graphene Foam with Graphene â€œEggshellâ€•for Improved Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2014, 6, 9835-9841.	4.0	64
2451	Soft silicon anodes for lithium ion batteries. Energy and Environmental Science, 2014, 7, 2261.	15.6	70
2452	Li3V2(PO4)3 cathode materials for lithium-ion batteries: A review. Journal of Power Sources, 2014, 258, 19-38.	4.0	284
2453	Ionicâ€Liquidâ€“Nanoparticle Hybrid Electrolytes: Applications in Lithium Metal Batteries. Angewandte Chemie - International Edition, 2014, 53, 488-492.	7.2	295
2454	Carbon and functionalized graphene oxide coated vanadium oxide electrodes for lithium ion batteries. Applied Surface Science, 2014, 305, 596-602.	3.1	26
2455	Nanomaterial-mediated Biosensors for Monitoring Glucose. Journal of Diabetes Science and Technology, 2014, 8, 403-411.	1.3	85
2456	Single-chamber solid oxide fuel cells with nanocatalyst-modified anodes capable of in situ activation. Journal of Power Sources, 2014, 264, 220-228.	4.0	10
2457	Nanofibrillar alginic acidâ€derived hierarchical porous carbon supercapacitors. Canadian Journal of Chemical Engineering, 2014, 92, 796-802.	0.9	3
2458	Novel Proton Conductors in the Layered Oxide Material Li_xlAl_{0.5}Co_{0.5}O₂. Advanced Energy Materials, 2014, 4, 1301683.	10.2	95
2459	Lithium Intercalation Behavior in Multilayer Silicon Electrodes. Advanced Energy Materials, 2014, 4, 1301494.	10.2	35
2460	Controlled synthesis and characterization of iron oxide nanostructures with potential applications for gas sensors and the environment. RSC Advances, 2014, 4, 6383.	1.7	29
2461	25th Anniversary Article: Semiconductor Nanowires â€“ Synthesis, Characterization, and Applications. Advanced Materials, 2014, 26, 2137-2184.	11.1	759
2462	Spark plasma sintered/synthesized dense and nanostructured materials for solid-state Li-ion batteries: Overview and perspective. Journal of Power Sources, 2014, 247, 920-931.	4.0	93
2463	Enhanced electroactivity with Li in Fe3O4/MWCNT nanocomposite electrodes. Journal of Alloys and Compounds, 2014, 615, S397-S400.	2.8	3
2464	Facile synthesis of specific FeMnO3 hollow sphere/graphene composites and their superior electrochemical energy storage performances for supercapacitor. Journal of Power Sources, 2014, 248, 465-473.	4.0	49

#	Article	IF	Citations
2465	Carbon treated self-ordered TiO2 nanotube arrays with enhanced lithium-ion intercalation performance. Journal of Alloys and Compounds, 2014, 597, 275-281.	2.8	17
2466	Facile Single-Step Synthesis of Nitrogen-Doped Reduced Graphene Oxide-Mn₃O₄ Hybrid Functional Material for the Electrocatalytic Reduction of Oxygen. ACS Applied Materials & Interfaces, 2014, 6, 2692-2699.	4.0	214
2467	Flexible Selfâ€Charging Power Cell for Oneâ€Step Energy Conversion and Storage. Advanced Energy Materials, 2014, 4, 1301329.	10.2	91
2468	Facile Synthesis of Porous Mn₂O₃ Nanoplates and Their Electrochemical Behavior as Anode Materials for Lithium Ion Batteries. Chemistry - A European Journal, 2014, 20, 6126-6130.	1.7	117
2469	Morphological and Electrochemical Cycling Effects in MnO₂ Nanostructures by 3D Electron Tomography. Advanced Functional Materials, 2014, 24, 3130-3143.	7.8	107
2470	Role of Surface Functional Groups in Ordered Mesoporous Carbide-Derived Carbon/Ionic Liquid Electrolyte Double-Layer Capacitor Interfaces. ACS Applied Materials & Interfaces, 2014, 6, 2922-2928.	4.0	61
2471	Oxygen storage capacity and structural flexibility of LuFe2O4+xÂ(0â‰xâ‰0.5). Nature Materials, 2014, 13, 74-80.	13.3	59
2472	A sandwich-type three-dimensional layered double hydroxide nanosheet array/graphene composite: fabrication and high supercapacitor performance. Journal of Materials Chemistry A, 2014, 2, 1022-1031.	5.2	254
2473	Eco-efficient synthesis route of carbon-encapsulated transition metal phosphide with improved cycle stability for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 921-925.	5.2	52
2474	An environmentally friendly and economic membrane based on cellulose as a gel polymer electrolyte for lithium ion batteries. RSC Advances, 2014, 4, 76-81.	1.7	108
2475	Efficient reduced graphene oxide grafted porous Fe3O4 composite as a high performance anode material for Li-ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 5284.	1.3	128
2476	Lithium ion battery applications of molybdenum disulfide (MoS₂) nanocomposites. Energy and Environmental Science, 2014, 7, 209-231.	15.6	1,172
2477	Superior electrochemical performance and structure evolution of mesoporous Fe2O3 anodes for lithium-ion batteries. Nano Energy, 2014, 3, 26-35.	8.2	124
2478	Substrate-induced effects on the optical properties of individual ZnO nanorods with different diameters. Nanoscale, 2014, 6, 483-491.	2.8	8
2479	Influence of quinone grafting via Friedelâ€“Crafts reaction on carbon porous structure and supercapacitor performance. Carbon, 2014, 66, 654-661.	5.4	33
2480	Reduced graphene oxide and vertically aligned carbon nanotubes superhydrophilic films for supercapacitors devices. Materials Research Bulletin, 2014, 49, 487-493.	2.7	42
2481	In situ Raman spectroscopicâ€“electrochemical studies of lithium-ion battery materials: a historical overview. Journal of Applied Electrochemistry, 2014, 44, 23-43.	1.5	106
2482	Inorganic chemistry solutions to semiconductor nanocrystal problems. Coordination Chemistry Reviews, 2014, 263-264, 182-196.	9.5	35

#	Article	IF	Citations
2483	Flame synthesis of single crystalline SnO nanoplatelets for lithium-ion batteries. Chemical Engineering Journal, 2014, 242, 220-225.	6.6	49
2484	Pushing Nanoionics to the Limits: Charge Carrier Chemistry in Extremely Small Systems. Chemistry of Materials, 2014, 26, 348-360.	3.2	75
2485	â€œDirty nanostructuresâ€• aerosol-assisted synthesis of temperature stable mesoporous metal oxide semiconductor spheres comprising hierarchically assembled zinc oxide nanocrystals controlled via impurities. Nanoscale, 2014, 6, 1698-1706.	2.8	4
2486	Synthesis of Mn₂O₃nanomaterials with controllable porosity and thickness for enhanced lithium-ion batteries performance. Nanoscale, 2014, 6, 1725-1731.	2.8	103
2487	Effective wrapping of graphene on individual Li₄Ti₅O₁₂grains for high-rate Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 2023-2027.	5.2	76
2488	Correlation between electrochromism and electronic structures of tungsten oxide films. RSC Advances, 2014, 4, 5036.	1.7	31
2489	On global energy scenario, dye-sensitized solar cells and the promise of nanotechnology. Physical Chemistry Chemical Physics, 2014, 16, 6838.	1.3	83
2490	A contact-corrected density functional theory for electrolytes at an interface. Physical Chemistry Chemical Physics, 2014, 16, 3934.	1.3	26
2491	Integrating porphyrin nanoparticles into a 2D graphene matrix for free-standing nanohybrid films with enhanced visible-light photocatalytic activity. Nanoscale, 2014, 6, 978-985.	2.8	84
2492	Na2FePO4F cathode utilized in hybrid-ion batteries: a mechanistic exploration of ion migration and diffusion capability. Journal of Materials Chemistry A, 2014, 2, 2571.	5.2	101
2493	Facile synthesis of ZnWO₄nanowall arrays on Ni foam for high performance supercapacitors. RSC Advances, 2014, 4, 4212-4217.	1.7	46
2494	Applicability of triboelectric generator over a wide range of temperature. Nano Energy, 2014, 4, 150-156.	8.2	135
2495	Hyperbranched Î²-Cyclodextrin Polymer as an Effective Multidimensional Binder for Silicon Anodes in Lithium Rechargeable Batteries. Nano Letters, 2014, 14, 864-870.	4.5	277
2496	Binder-free metal fibril-supported Fe2O3 anodes for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 2906.	5.2	15
2497	One-pot hydrothermal synthesis of reduced graphene oxide/Ni(OH)2 films on nickel foam for high performance supercapacitors. Electrochimica Acta, 2014, 115, 155-164.	2.6	187
2498	Densification of Ionic Liquid Molecules within a Hierarchical Nanoporous Carbon Structure Revealed by Small-Angle Scattering and Molecular Dynamics Simulation. Chemistry of Materials, 2014, 26, 1144-1153.	3.2	55
2499	Self-assembly of hierarchical Fe₃O₄microsphere/graphene nanosheet composite: towards a promising high-performance anode for Li-ion batteries. RSC Advances, 2014, 4, 322-330.	1.7	57
2500	CoO nanoflowers woven by CNT network for high energy density flexible micro-supercapacitor. Nano Energy, 2014, 3, 46-54.	8.2	185

#	Article	IF	Citations
2501	A reversible and stable flake-like LiCoO2 cathode for lithium ion batteries. Chemical Communications, 2014, 50, 1962.	2.2	47
2502	Interconnected carbon-decorated Tio2 nanocrystals with enhanced lithium storage performance. Electrochemistry Communications, 2014, 40, 54-57.	2.3	7
2503	Iron fluoride with excellent cycle performance synthesized by solvothermal method as cathodes for lithium ion batteries. Journal of Power Sources, 2014, 251, 75-84.	4.0	60
2504	Facile synthesis of electrochemically active Î±-LiFeO₂nanoparticles in absolute ethanol at ambient temperature. RSC Advances, 2014, 4, 3738-3742.	1.7	2
2505	Evaluating the performance of nanostructured materials as lithium-ion battery electrodes. Nano Research, 2014, 7, 1-62.	5.8	292
2506	High-energy asymmetric supercapacitor based on petal-shaped MnO2 nanosheet and carbon nanotube-embedded polyacrylonitrile-based carbon nanofiber working at 2ÂV in aqueous neutral electrolyte. Journal of Power Sources, 2014, 249, 1-8.	4.0	69
2507	Nanoscale Thermoelectrics. Lecture Notes in Nanoscale Science and Technology, 2014, , .	0.4	20
2508	Modern Microwave Methods in Solid-State Inorganic Materials Chemistry: From Fundamentals to Manufacturing. Chemical Reviews, 2014, 114, 1170-1206.	23.0	363
2509	A new lithium secondary battery system: the sulfur/lithium-ion battery. Journal of Materials Chemistry A, 2014, 2, 308-314.	5.2	48
2510	Microwave autoclave synthesized multi-layer graphene/single-walled carbon nanotube composites for free-standing lithium-ion battery anodes. Carbon, 2014, 66, 637-645.	5.4	49
2511	Low-temperature and one-pot synthesis of sulfurized graphene nanosheets via in situ doping and their superior electrocatalytic activity for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 20714-20722.	5.2	54
2512	Selfâ€Organised TiO₂ Nanotubes for 2D or 3D Liâ€Ion Microbatteries. ChemElectroChem, 2014, 1, 1442-1466.	1.7	38
2513	Controlled electrochemical growth of Co(OH)₂flakes on 3D multilayered graphene foam for high performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 19075-19083.	5.2	117
2514	Integration of Sn/C yolkâ€“shell nanostructures into free-standing conductive networks as hierarchical composite 3D electrodes and the Li-ion insertion/extraction properties in a gel-type lithium-ion battery thereof. Journal of Materials Chemistry A, 2014, 2, 19122-19130.	5.2	50
2515	Facile solution-based synthesis of spinel Li4Ti5O12 nanosheets and the application in lithium ion Batteries. Solid State Ionics, 2014, 268, 131-134.	1.3	7
2516	Facile fabrication of red phosphorus/TiO₂ composites for lithium ion batteries. RSC Advances, 2014, 4, 60914-60919.	1.7	15
2517	Oxide Nanomaterials and their Applications as a Memristor. Solid State Phenomena, 0, 222, 67-97.	0.3	24
2518	Lithiumâ€Ion Transport through a Tailored Disordered Phase on the LiNi_{0.5}Mn_{1.5}O₄ Surface for Highâ€Power Cathode Materials. ChemSusChem, 2014, 7, 2248-2254.	3.6	25

#	Article	IF	Citations
2519	An ionic self-assembly approach towards sandwich-like graphene/SnO₂/graphene nanosheets for enhanced lithium storage. RSC Advances, 2014, 4, 57869-57874.	1.7	8
2520	Construction of mass-controllable mesoporous NiCo₂S₄ electrodes for high performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 19376-19382.	5.2	84
2521	Electroless Bimetal Decoration on Nâ€Doped Carbon Nanotubes and Graphene for Oxygen Reduction Reaction Catalysts. Particle and Particle Systems Characterization, 2014, 31, 965-970.	1.2	21
2522	Unravelling the Correlation between the Aspect Ratio of Nanotubular Structures and Their Electrochemical Performance To Achieve Highâ€Rate and Longâ€Life Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2014, 53, 13488-13492.	7.2	172
2523	Electrochemical Synthesis on Nanoparticle Chains to Couple Semiconducting Rods: Coulomb Blockade Modulation Using Photoexcitation. Advanced Materials, 2014, 26, 6491-6496.	11.1	5
2524	Stable Cycling of Fe₂O₃ Nanorice as an Anode through Electrochemical Porousness and the Solidâ€“Electrolyte Interphase Thermolysis Approach. ChemPlusChem, 2014, 79, 143-150.	1.3	14
2525	Unique Advantages of Exfoliated 2D Nanosheets for Tailoring the Functionalities of Nanocomposites. Journal of Physical Chemistry Letters, 2014, 5, 4149-4161.	2.1	104
2526	New Insights into the Electronic Transport of Reduced Graphene Oxide Using Scanning Electrochemical Microscopy. Journal of Physical Chemistry Letters, 2014, 5, 4162-4166.	2.1	13
2527	Topographically-Designed Triboelectric Nanogenerator via Block Copolymer Self-Assembly. Nano Letters, 2014, 14, 7031-7038.	4.5	310
2528	Dyeing bacterial cellulose pellicles for energetic heteroatom doped carbon nanofiber aerogels. Nano Research, 2014, 7, 1861-1872.	5.8	97
2529	Nanoporous Polymerâ€Ceramic Composite Electrolytes for Lithium Metal Batteries. Advanced Energy Materials, 2014, 4, 1300654.	10.2	222
2530	Liquid Crystalline Dispersions of Grapheneâ€Oxideâ€Based Hybrids: A Practical Approach towards the Next Generation of 3D Isotropic Architectures for Energy Storage Applications. Particle and Particle Systems Characterization, 2014, 31, 465-473.	1.2	20
2531	Inâ€situ Stabilization of Tin Nanoparticles in Porous Carbon Matrix derived from Metal Organic Framework: High Capacity and High Rate Capability Anodes for Lithiumâ€Ion Batteries. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 1115-1118.	0.6	29
2532	Magnetic properties of periodically organized cobalt frameworks. Journal of Applied Physics, 2014, 116, .	1.1	4
2533	Facile fabrication of safe and robust polyimide fibrous membrane based on triethylene glycol diacetate-2-propenoic acid butyl ester gel electrolytes for lithium-ion batteries. Electrochimica Acta, 2014, 149, 176-185.	2.6	29
2534	Hierarchical Nanostructures for Fuel Cells and Fuel Reforming. RSC Nanoscience and Nanotechnology, 2014, , 84-106.	0.2	0
2535	Waterâ€Free Titaniaâ€“Bronze Thin Films with Superfast Lithiumâ€Ion Transport. Advanced Materials, 2014, 26, 7365-7370.	11.1	31
2536	Highly Efficient and Versatile Formation of Biocompatible Star Polymers in Pure Water and Their Stimuli-Responsive Self-Assembly. Macromolecules, 2014, 47, 7869-7877.	2.2	34

#	Article	IF	Citations
2537	Growth of polyaniline nanofibers for supercapacitor applications using successive ionic layer adsorption and reaction (SILAR) method. Journal of the Korean Physical Society, 2014, 65, 80-86.	0.3	7
2538	CHAPTER 5. Nanotubes for Energy Storage. RSC Nanoscience and Nanotechnology, 2014, , 121-198.	0.2	0
2539	3D solid-state supercapacitors obtained by ALD coating of high-density carbon nanotubes bundles. , 2014, , .		6
2540	Electrolytes and Interphases in Li-Ion Batteries and Beyond. Chemical Reviews, 2014, 114, 11503-11618.	23.0	3,841
2541	Structural, thermal, electrical, and dielectric properties of synthesized nanocomposite solid polymer electrolytes. High Performance Polymers, 2014, 26, 677-688.	0.8	21
2542	A Rapid, Solvent-Free Protocol for the Synthesis of Germanium Nanowire Lithium-Ion Anodes with a Long Cycle Life and High Rate Capability. ACS Applied Materials & Interfaces, 2014, 6, 18800-18807.	4.0	50
2543	Tailor-made directional emission in nanoimprinted plasmonic-based light-emitting devices. Nanoscale, 2014, 6, 9223-9229.	2.8	87
2544	Mussel-inspired nitrogen-doped graphene nanosheet supported manganese oxide nanowires as highly efficient electrocatalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 6167.	5.2	41
2545	Branch-structured Bi₂S₃â€“CNT hybrids with improved lithium storage capability. Journal of Materials Chemistry A, 2014, 2, 13854-13858.	5.2	82
2546	Protein-directed approaches to functional nanomaterials: a case study of lysozyme. Journal of Materials Chemistry B, 2014, 2, 8268-8291.	2.9	37
2547	Gyroidal mesoporous multifunctional nanocomposites via atomic layer deposition. Nanoscale, 2014, 6, 8736.	2.8	22
2548	Changing the bridging connectivity pattern within a heterometallic assembly: design of single-source precursors with discrete molecular structures. Chemical Science, 2014, 5, 813-818.	3.7	30
2549	Reduced graphene oxide networks as an effective buffer matrix to improve the electrode performance of porous NiCo2O4 nanoplates for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 4449.	5.2	131
2550	Tuning the structure and property of nanostructured cathode materials of lithium ion and lithium sulfur batteries. Journal of Materials Chemistry A, 2014, 2, 19941-19962.	5.2	56
2551	Construction of unique NiCo2O4 nanowire@CoMoO4 nanoplate core/shell arrays on Ni foam for high areal capacitance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 4954.	5.2	134
2552	Porous olive-like carbon decorated Fe₃O₄ based additive-free electrodes for highly reversible lithium storage. Journal of Materials Chemistry A, 2014, 2, 16008-16014.	5.2	18
2553	Hierarchical mesoporous iron-based fluoride with partially hollow structure: facile preparation and high performance as cathode material for rechargeable lithium ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 8556.	1.3	42
2554	Mechanistic Insight into the Formation of Cationic Naked Nanocrystals Generated under Equilibrium Control. Journal of the American Chemical Society, 2014, 136, 15702-15710.	6.6	56

#	Article	IF	Citations
2555	NiO nanorod array anchored Ni foam as a binder-free anode for high-rate lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 20022-20029.	5.2	90
2556	Hierarchical mesoporous CoS2 microspheres: Morphology-controlled synthesis and their superior pseudocapacitive properties. Electrochimica Acta, 2014, 149, 285-292.	2.6	45
2557	A facile hard-templating synthesis of mesoporous spinel CoFe₂O₄nanostructures as promising electrocatalysts for the H₂O₂reduction reaction. RSC Advances, 2014, 4, 1754-1760.	1.7	28
2558	Achieving low voltage half electrolysis with a supercapacitor electrode. Energy and Environmental Science, 2014, 7, 1018-1022.	15.6	9
2559	Reduced graphene oxide derived from used cell graphite and its green fabrication as an eco-friendly supercapacitor. RSC Advances, 2014, 4, 60039-60051.	1.7	22
2560	High-performance amorphous carbonâ€“graphene nanocomposite anode for lithium-ion batteries. RSC Advances, 2014, 4, 18899.	1.7	16
2561	Multi-functionalities of natural polysaccharide for enhancing electrochemical performance of macroporous Si anodes. RSC Advances, 2014, 4, 3070-3074.	1.7	16
2562	Designing an ultrathin silica layer for highly durable carbon nanofibers as the carbon support in polymer electrolyte fuel cells. Nanoscale, 2014, 6, 12111-12119.	2.8	11
2563	Amorphized ZnSb-based composite anodes for high-performance Li-ion batteries. RSC Advances, 2014, 4, 5830.	1.7	14
2564	Free-standing graphene-based nanohybrid paper electrode as an anode for lithium-ion batteries. RSC Advances, 2014, 4, 38310-38315.	1.7	3
2565	MnO2 nanolayers on highly conductive TiO0.54N0.46 nanotubes for supercapacitor electrodes with high power density and cyclic stability. Physical Chemistry Chemical Physics, 2014, 16, 8521.	1.3	21
2566	Blue hydrogenated lithium titanate as a high-rate anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 6353.	5.2	58
2567	Enhanced lithium storage capability of a dual-phase Li₄Ti₅O₁₂â€“TiO₂â€“carbon nanofiber anode with interfacial pseudocapacitive effect. RSC Advances, 2014, 4, 48632-48638.	1.7	23
2568	Dopamine-assisted one-pot synthesis of zinc ferrite-embedded porous carbon nanospheres for ultrafast and stable lithium ion batteries. Chemical Communications, 2014, 50, 14597-14600.	2.2	44
2569	Synthesis of a nanowire self-assembled hierarchical ZnCo₂O₄shell/Ni current collector core as binder-free anodes for high-performance Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 3741-3748.	5.2	91
2570	Improved cycling performance of a silicon anode for lithium ion batteries using carbon nanocoils. RSC Advances, 2014, 4, 40812-40815.	1.7	10
2571	Scalable synthesis of graphene-wrapped Li₄Ti₅O₁₂dandelion-like microspheres for lithium-ion batteries with excellent rate capability and long-cycle life. Journal of Materials Chemistry A, 2014, 2, 20221-20230.	5.2	73
2572	Co_xP compounds: electrochemical conversion/partial recombination reaction and partially disproportionated nanocomposite for Li-ion battery anodes. RSC Advances, 2014, 4, 43227-43234.	1.7	42

#	Article	IF	Citations
2573	3D binder-free Cu₂O@Cu nanoneedle arrays for high-performance asymmetric supercapacitors. Journal of Materials Chemistry A, 2014, 2, 18229-18235.	5.2	177
2574	Effects of amorphous and crystalline MoO₃coatings on the Li-ion insertion behavior of a TiO₂nanotube anode for lithium ion batteries. RSC Advances, 2014, 4, 4055-4062.	1.7	24
2575	New Synthesis of a Foamlike Fe₃O₄/C Composite via a Self-Expanding Process and Its Electrochemical Performance as Anode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 19254-19264.	4.0	54
2576	Graphene wrapping as a protective clamping layer anchored to carbon nanofibers encapsulating Si nanoparticles for a Li-ion battery anode. Nanoscale, 2014, 6, 12718-12726.	2.8	47
2577	Activated Carbon Spheres as a Flowable Electrode in Electrochemical Flow Capacitors. Journal of the Electrochemical Society, 2014, 161, A1078-A1083.	1.3	68
2578	Insertion-Type Electrodes for Nonaqueous Li-Ion Capacitors. Chemical Reviews, 2014, 114, 11619-11635.	23.0	632
2579	Single Particle Nanomechanics in Operando Batteries via Lensless Strain Mapping. Nano Letters, 2014, 14, 5123-5127.	4.5	94
2580	Low-cost Nanomaterials. Green Energy and Technology, 2014, , .	0.4	16
2581	Design of nitrogen doped graphene grafted TiO₂ hollow nanostructures with enhanced sodium storage performance. Journal of Materials Chemistry A, 2014, 2, 12449-12458.	5.2	66
2582	Preparation of porous and hollow Fe3O4@C spheres as an efficient anode material for a high-performance Li-ion battery. RSC Advances, 2014, 4, 6430.	1.7	46
2583	LiV₃O₈ nanorods as cathode materials for high-power and long-life rechargeable lithium-ion batteries. RSC Advances, 2014, 4, 25494-25501.	1.7	33
2584	Interface chemistry engineering in electrode systems for electrochemical energy storage. RSC Advances, 2014, 4, 37491-37502.	1.7	7
2585	Assessing the improved performance of freestanding, flexible graphene and carbon nanotube hybrid foams for lithium ion battery anodes. Nanoscale, 2014, 6, 4669-4675.	2.8	78
2586	Better lithium-ion storage materials made through hierarchical assemblies of active nanorods and nanocrystals. Journal of Materials Chemistry A, 2014, 2, 17536-17544.	5.2	12
2587	Novel three-dimensional NiCo₂O₄hierarchitectures: solvothermal synthesis and electrochemical properties. CrystEngComm, 2014, 16, 385-392.	1.3	134
2588	Polypeptide films via N-carboxyanhydride ring-opening polymerization (NCA-ROP): past, present and future. Chemical Communications, 2014, 50, 4971.	2.2	61
2589	Accurate tuning of ordered nanotubular platinum electrodes by galvanic plating. Dalton Transactions, 2014, 43, 4345-4350.	1.6	6
2590	A promising Na3V2(PO4)3 cathode for use in the construction of high energy batteries. Physical Chemistry Chemical Physics, 2014, 16, 3055.	1.3	92

#	Article	IF	Citations
2591	Intrinsic peroxidase-like activity of mesoporous nickel oxide for selective cysteine sensing. Journal of Materials Chemistry B, 2014, 2, 6097.	2.9	105
2592	Synthesis of amorphous cobalt sulfide polyhedral nanocages for high performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 8603-8606.	5.2	258
2593	Exceptional electrochemical performance of porous TiO₂â€“carbon nanofibers for lithium ion battery anodes. Journal of Materials Chemistry A, 2014, 2, 3875-3880.	5.2	71
2594	Controllable synthesis of SnO₂@C yolkâ€“shell nanospheres as a high-performance anode material for lithium ion batteries. Nanoscale, 2014, 6, 3217-3222.	2.8	160
2595	New Technologies and the Law of Armed Conflict. , 2014, , .		29
2596	Electrodeposition of three-dimensional macro-/mesoporous Co3O4 nanosheet arrays as for ultrahigh rate lithium-ion battery. Electrochimica Acta, 2014, 142, 268-275.	2.6	34
2597	Fast Supercapacitors Based on Grapheneâ€Bridged V₂O₃/VO_x Coreâ€“Shell Nanostructure Electrodes with a Power Density of 1 MW kg^{â^'1}. Advanced Materials Interfaces, 2014, 1, 1400398.	1.9	101
2598	Facile synthesis of graphene-supported mesoporous Mn3O4 nanosheets with a high-performance in Li-ion batteries. RSC Advances, 2014, 4, 5367.	1.7	30
2599	The impact of size effects on the electrochemical behaviour of Cu2O-coated Cu nanopillars for advanced Li-ion microbatteries. Journal of Materials Chemistry A, 2014, 2, 9574.	5.2	52
2600	High-Density Capacitor Devices Based on Macroporous Silicon and Metal Electroplating. IEEE Transactions on Electron Devices, 2014, 61, 116-122.	1.6	8
2601	Enhanced lithium storage capacity of Co₃O₄hexagonal nanorings derived from Co-based metal organic frameworks. Journal of Materials Chemistry A, 2014, 2, 17408-17414.	5.2	72
2602	Coâ€“Sb intermetallic compounds and their disproportionated nanocomposites as high-performance anodes for rechargeable Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 11391-11399.	5.2	36
2603	Selfâ€Supported Metallic Nanopore Arrays with Highly Oriented Nanoporous Structures as Ideally Nanostructured Electrodes for Supercapacitor Applications. Advanced Materials, 2014, 26, 7654-7659.	11.1	97
2604	Facile synthesis of carbon decorated silicon nanotube arrays as anode material for high-performance lithium-ion batteries. RSC Advances, 2013, 4, 2440-2446.	1.7	25
2605	Benzylamine-directed growth of olivine-type LiMPO₄nanoplates by a supercritical ethanol process for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 17400-17407.	5.2	28
2606	Stepwise assembled nickelâ€“cobalt-hydroxide hetero-accumulated nanocrystalline walls on reduced graphene oxide/nickel foams: an adjustable interface design for capacitive charge storage. Journal of Materials Chemistry A, 2014, 2, 4894-4898.	5.2	5
2607	A carbon-coated TiO2(B) nanosheet composite for lithium ion batteries. Chemical Communications, 2014, 50, 5506.	2.2	45
2608	Distinct mechanical properties of nanoparticle-tethering polymers. RSC Advances, 2014, 4, 35272-35283.	1.7	15

#	Article	IF	Citations
2609	The preparation of hierarchical tubular structures comprised of NiO nanosheets with enhanced supercapacitive performance. RSC Advances, 2014, 4, 3181-3187.	1.7	30
2610	Lithiation mechanism of hierarchical porous MoO₂nanotubes fabricated through one-step carbothermal reduction. Journal of Materials Chemistry A, 2014, 2, 80-86.	5.2	84
2611	In situ powder X-ray diffraction study of the hydro-thermal formation of LiMn₂O₄nanocrystallites. Dalton Transactions, 2014, 43, 15075-15084.	1.6	9
2612	Scaling behavior and local structure of ion aggregates in single-ion conductors. Soft Matter, 2014, 10, 978-989.	1.2	33
2613	Non-conformal decoration of semiconductor nanowire surfaces with boron nitride (BN) molecules for stability enhancement: degradation-resistant Zn₃P₂, ZnO and Mg₂Si nanowires. Physical Chemistry Chemical Physics, 2014, 16, 16150.	1.3	7
2614	Facile hydrothermal synthesis of SnO2/C microspheres and double layered coreâ€“shell SnO2 microspheres as anode materials for Li-ion secondary batteries. RSC Advances, 2014, 4, 25189-25194.	1.7	25
2615	Integrated Pt2Ni alloy@Pt coreâ€“shell nanoarchitectures with high electrocatalytic activity for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 11400.	5.2	28
2616	SWCNT/BiVO₄ composites as anode materials for supercapacitor application. RSC Advances, 2014, 4, 17378-17381.	1.7	71
2617	Nitrogen-doped reduced graphene oxide for high-performance flexible all-solid-state micro-supercapacitors. Journal of Materials Chemistry A, 2014, 2, 18125-18131.	5.2	158
2618	Possible correlation between enthalpies of formation and redox potentials in LiMSO₄OH (M = Co, Fe, Mn), Li-ion polyanionic battery cathode materials. Journal of Materials Chemistry A, 2014, 2, 6887-6894.	5.2	11
2619	Green synthesis of open porous NiO films with an excellent capacitance performance. Chemical Communications, 2014, 50, 3443.	2.2	56
2620	Carbon black anchored vanadium oxide nanobelts and their post-sintering counterpart (V2O5) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Chemical Physics, 2014, 16, 3973.	1.3	62
2621	Glucosamine-derived encapsulation of silicon nanoparticles for high-performance lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 14557.	5.2	32
2622	Hollow/porous nanostructures derived from nanoscale metalâ€“organic frameworks towards high performance anodes for lithium-ion batteries. Nanoscale, 2014, 6, 1236-1257.	2.8	281
2623	Improved electrochemical performance of LiNi_{0.4}Ti_{0.1}Mn_{1.5}O₄as cathode of lithium ion battery by carbon-coating. RSC Advances, 2014, 4, 57041-57047.	1.7	15
2624	Strong and tough micro/nanostructured poly(lactic acid) by mimicking the multifunctional hierarchy of shell. Materials Horizons, 2014, 1, 546-552.	6.4	61
2625	TiO₂@C composite nanospheres with an optimized homogeneous structure for lithium-ion batteries. New Journal of Chemistry, 2014, 38, 3722-3728.	1.4	14
2626	Microstructure â€“ twinning and hexad multiplet(s) in lithium-rich layered cathode materials for lithium-ion batteries. RSC Advances, 2014, 4, 40359.	1.7	11

#	Article	IF	Citations
2627	Construction of 3D V2O5/hydrogenated-WO3 nanotrees on tungsten foil for high-performance pseudocapacitors. Physical Chemistry Chemical Physics, 2014, 16, 12214.	1.3	40
2628	Lithium-ion storage performance of camphoric carbon wrapped NiS nano/micro-hybrids. RSC Advances, 2014, 4, 11673-11679.	1.7	26
2629	An electrochemically grown three-dimensional porous Si@Ni inverse opal structure for high-performance Li ion battery anodes. Journal of Materials Chemistry A, 2014, 2, 6396-6401.	5.2	27
2630	Hierarchical foam of exposed ultrathin nickel nanosheets supported on chainlike Ni-nanowires and the derivative chalcogenide for enhanced pseudocapacitance. Nanoscale, 2014, 6, 2618-2623.	2.8	77
2631	High lithium electroactivity of boron-doped hierarchical rutile submicrosphere TiO₂. Journal of Materials Chemistry A, 2014, 2, 10599-10606.	5.2	29
2632	Facile fabrication and electrochemical properties of high-quality reduced graphene oxide/cobalt sulfide composite as anode material for lithium-ion batteries. RSC Advances, 2014, 4, 37180-37186.	1.7	59
2633	A mild route to mesoporous Mo2Câ€“C hybrid nanospheres for high performance lithium-ion batteries. Nanoscale, 2014, 6, 6151.	2.8	183
2634	Synthesis of high performance Li4Ti5O12 microspheres and TiO2 nanowires from natural ilmenite. RSC Advances, 2014, 4, 40111-40119.	1.7	5
2635	Highly soluble alkoxide magnesium salts for rechargeable magnesium batteries. Journal of Materials Chemistry A, 2014, 2, 581-584.	5.2	66
2636	Understanding the role of manganese valence in 4 V spinel cathodes for lithium-ion batteries: a systematic investigation. RSC Advances, 2014, 4, 670-675.	1.7	6
2637	Enhanced Cycling Stability of Lithium Sulfur Batteries Using Sulfurâ€“Polyanilineâ€“Graphene Nanoribbon Composite Cathodes. ACS Applied Materials & Interfaces, 2014, 6, 15033-15039.	4.0	80
2638	Enhancing the electrochemical properties of NiFe2O4 anode for lithium ion battery through a simple hydrogenation modification. International Journal of Hydrogen Energy, 2014, 39, 11258-11266.	3.8	35
2639	High-performance supercapacitors based on defect-engineered carbon nanotubes. Carbon, 2014, 80, 246-254.	5.4	68
2640	Mesocrystals as electrode materials for lithium-ion batteries. Nano Today, 2014, 9, 499-524.	6.2	120
2641	Perspectives of Aerosolâ€Photopolymerization: Nanostructured Polymeric Particles. Macromolecular Materials and Engineering, 2014, 299, 1316-1328.	1.7	8
2642	Hydrogen fuel cell technology. , 2014, , 451-498.		15
2643	Molecularâ€Level Insights into the Reactivity of Siloxaneâ€Based Electrolytes at a Lithiumâ€Metal Anode. ChemPhysChem, 2014, 15, 2077-2083.	1.0	9
2644	A multilayer Si/CNT coaxial nanofiber LIB anode with a high areal capacity. Energy and Environmental Science, 2014, 7, 655-661.	15.6	174

#	Article	IF	Citations
2645	Facile synthesis of a reduced graphene oxide/cobalt sulfide hybrid and its electrochemical capacitance performance. RSC Advances, 2014, 4, 29216-29222.	1.7	37
2646	Dendriteâ€Free Nanostructured Anode: Entrapment of Lithium in a 3D Fibrous Matrix for Ultraâ€Stable Lithiumâ€“Sulfur Batteries. Small, 2014, 10, 4257-4263.	5.2	154
2647	Synthesis and characterization of Mn-based composite oxides with enhanced electrocatalytic activity for oxygen reduction. Journal of Materials Chemistry A, 2014, 2, 13345-13351.	5.2	17
2648	Free-Standing Hierarchically Sandwich-Type Tungsten Disulfide Nanotubes/Graphene Anode for Lithium-Ion Batteries. Nano Letters, 2014, 14, 5899-5904.	4.5	268
2649	Synthesis of partially graphitic nanoflake-like carbon/Fe3O4 magnetic composites from chitosan as high-performance electrode materials in supercapacitors. RSC Advances, 2014, 4, 39625-39633.	1.7	22
2650	Shedding Light on Lithium/Air Batteries Using Millions of Threads on the BG/Q Supercomputer. , 2014, , .		11
2651	MnO2 nanoflakes anchored on reduced graphene oxide nanosheets as high performance anode materials for lithium-ion batteries. RSC Advances, 2014, 4, 30150-30155.	1.7	20
2652	Enhanced Sodium-Ion Battery Performance by Structural Phase Transition from Two-Dimensional Hexagonal-SnS₂ to Orthorhombic-SnS. ACS Nano, 2014, 8, 8323-8333.	7.3	592
2653	Covalently coupled hybrid of graphitic carbon nitride with reduced graphene oxide as a superior performance lithium-ion battery anode. Nanoscale, 2014, 6, 12555-12564.	2.8	194
2654	High-rate lithiation-induced reactivation of mesoporous hollow spheres for long-lived lithium-ion batteries. Nature Communications, 2014, 5, 4526.	5.8	586
2655	Morphology-Controlled Synthesis of Self-Assembled LiFePO₄/C/RGO for High-Performance Li-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 17556-17563.	4.0	32
2656	Synthesis and Extreme Rate Capability of Siâ€“Alâ€“Câ€“N Functionalized Carbon Nanotube Spray-on Coatings as Li-Ion Battery Electrode. ACS Applied Materials & Interfaces, 2014, 6, 16056-16064.	4.0	32
2657	Low temperature Hydrogen Reduction of High Surface Area Anatase and Anatase/Î²â€TiO₂ for Highâ€Chargingâ€Rate Batteries. ChemSusChem, 2014, 7, 2584-2589.	3.6	24
2658	Nitrogen-doped carbon coated SiO nanoparticles Co-modified with nitrogen-doped graphene as a superior anode material for lithium-ion batteries. RSC Advances, 2014, 4, 35717-35725.	1.7	5
2659	Architectures of tavorite LiFe(PO₄)(OH)_{0.5}F_{0.5}hierarchical microspheres and their lithium storage properties. Nanoscale, 2014, 6, 11041-11045.	2.8	12
2660	SnO2-reduced graphene oxide nanoribbons as anodes for lithium ion batteries with enhanced cycling stability. Nano Research, 2014, 7, 1319-1326.	5.8	66
2661	Metalâ€“organic frameworks: a new promising class of materials for a high performance supercapacitor electrode. Journal of Materials Chemistry A, 2014, 2, 16640-16644.	5.2	505
2662	ZIF-derived in situ nitrogen-doped porous carbons as efficient metal-free electrocatalysts for oxygen reduction reaction. Energy and Environmental Science, 2014, 7, 442-450.	15.6	719

#	Article	IF	Citations
2663	Real Time Observation of the Formation of Hollow Nanostructures through Solid State Reactions. Analytical Chemistry, 2014, 86, 4348-4353.	3.2	6
2664	Shape-controlled porous nanocarbons for high performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 5236.	5.2	53
2665	Morphology, mechanism and optical properties of nanometer-sized MgO synthesized via facile wet chemical method. Materials Chemistry and Physics, 2014, 148, 1064-1070.	2.0	40
2666	Rapid low-temperature synthesis of mesoporous nanophase ZnFe₂O₄with enhanced lithium storage properties for Li-ion batteries. RSC Advances, 2014, 4, 49212-49218.	1.7	50
2667	Nanowire Electrodes for Electrochemical Energy Storage Devices. Chemical Reviews, 2014, 114, 11828-11862.	23.0	617
2668	Freestanding bacterial celluloseâ€“polypyrrole nanofibres paper electrodes for advanced energy storage devices. Nano Energy, 2014, 9, 309-317.	8.2	167
2669	Porous inorganic nanostructures with colloidal dimensions: synthesis and applications in electrochemical energy devices. Chemical Communications, 2014, 50, 2077-2088.	2.2	24
2670	Bending-Induced Symmetry Breaking of Lithiation in Germanium Nanowires. Nano Letters, 2014, 14, 4622-4627.	4.5	92
2671	A REVIEW OF METAL OXIDE COMPOSITE ELECTRODE MATERIALS FOR ELECTROCHEMICAL CAPACITORS. Nano, 2014, 09, 1430002.	0.5	141
2672	One-Pot Synthesized Bicontinuous Hierarchical Li₃V₂(PO₄)₃/C Mesoporous Nanowires for High-Rate and Ultralong-Life Lithium-ion Batteries. Nano Letters, 2014, 14, 1042-1048.	4.5	230
2673	Carbon encapsulated 3D hierarchical Fe3O4 spheres as advanced anode materials with long cycle lifetimes for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 14641-14648.	5.2	62
2674	Exotic Reaction Front Migration and Stage Structure in Lithiated Silicon Nanowires. ACS Nano, 2014, 8, 8249-8254.	7.3	18
2675	QCM-Based Measurement of Chlorine-Induced Polymer Degradation Kinetics. Langmuir, 2014, 30, 8923-8930.	1.6	12
2677	In situ hydrogenation of molybdenum oxide nanowires for enhanced supercapacitors. RSC Advances, 2014, 4, 8741.	1.7	48
2678	Double surfactant-directed controllable synthesis of Sb₂S₃crystals with comparable electrochemical performances. CrystEngComm, 2014, 16, 7753.	1.3	18
2679	Lithium manganese spinel materials for high-rate electrochemical applications. Journal of Energy Chemistry, 2014, 23, 543-558.	7.1	59
2680	Graphene nanosheets encapsulated Î±-MoO₃ nanoribbons with ultrahigh lithium ion storage properties. CrystEngComm, 2014, 16, 6745-6755.	1.3	79
2681	An Li-rich oxide cathode material with mosaic spinel grain and a surface coating for high performance Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 15640.	5.2	75

#	Article	IF	Citations
2682	Facile synthesis of hierarchically porous hematite nanostructures composed of aligned nanorods for superior lithium storage capability. Journal of Power Sources, 2014, 272, 997-1002.	4.0	13
2683	Metallodendrimers in three oxidation states with electronically interacting metals and stabilization of size-selected gold nanoparticles. Nature Communications, 2014, 5, 3489.	5.8	42
2684	Impact of Particle Size on the Non-Equilibrium Phase Transition of Lithium-Inserted Anatase TiO₂. Chemistry of Materials, 2014, 26, 1608-1615.	3.2	68
2685	Facile synthesis of CuO nanoneedle electrodes for high-performance lithium-ion batteries. Materials Chemistry and Physics, 2014, 148, 411-415.	2.0	22
2686	Mechanism studies of LiFePO₄cathode material: lithiation/delithiation process, electrochemical modification and synthetic reaction. RSC Advances, 2014, 4, 54576-54602.	1.7	44
2687	Microstructure Evolution in Lithium-Ion Battery Electrode Processing. Journal of the Electrochemical Society, 2014, 161, E3248-E3258.	1.3	56
2688	Fabrication of three-dimensional epitaxial (Fe,Zn)₃O₄nanowall wire structures and their transport properties. Applied Physics Express, 2014, 7, 045201.	1.1	14
2689	Hierarchical 3D micro-/nano-V2O5 (vanadium pentoxide) spheres as cathode materials for high-energy and high-power lithium ion-batteries. Energy, 2014, 76, 607-613.	4.5	40
2690	In Situ Transmission Electron Microscopy Observation of Electrochemical Sodiation of Individual Co₉S₈-Filled Carbon Nanotubes. ACS Nano, 2014, 8, 3620-3627.	7.3	76
2691	Hydrophilic nanoporous ion-exchange membranes as a stabilizing barrier for liquidâ€“liquid membrane extraction of lithium ions. Journal of Membrane Science, 2014, 471, 372-380.	4.1	58
2692	A Facile Supercritical Alcohol Route for Synthesizing Carbon Coated Hierarchically Mesoporous Li₄Ti₅O₁₂ Microspheres. Journal of Physical Chemistry C, 2014, 118, 183-193.	1.5	57
2693	Deft dipping combined with electrochemical reduction to obtain 3D electrochemical reduction graphene oxide and its applications in supercapacitors. Journal of Materials Chemistry A, 2014, 2, 1137-1143.	5.2	35
2694	3D graphene supported MoO₂ for high performance binder-free lithium ion battery. Nanoscale, 2014, 6, 9839-9845.	2.8	82
2695	Surface modification of cathodes with nanosized amorphous MnO2 coating for high-power application in lithium-ion batteries. Journal of Electroanalytical Chemistry, 2014, 728, 34-40.	1.9	26
2696	Cost-effective and Scalable Chemical Synthesis of Conductive Cellulose Nanocrystals for High-performance Supercapacitors. Electrochimica Acta, 2014, 138, 139-147.	2.6	90
2697	High rate LiMn2O4/carbon nanotube composite prepared by a two-step hydrothermal process. Journal of Power Sources, 2014, 268, 491-497.	4.0	23
2698	Dual-Phase Spinel MnCo₂O₄and Spinel MnCo₂O₄/Nanocarbon Hybrids for Electrocatalytic Oxygen Reduction and Evolution. ACS Applied Materials & Interfaces, 2014, 6, 12684-12691.	4.0	322
2699	Hollow Cocoon-Like Hematite Mesoparticles of Nanoparticle Aggregates: Structural Evolution and Superior Performances in Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 2996-3001.	4.0	39

#	Article	IF	Citations
2700	Electrochemical performance of hybrid supercapacitor fabricated using multi-structured activated carbon. Electrochemistry Communications, 2014, 47, 5-8.	2.3	36
2701	Microwave-assisted synthesis of spherical Î²-Ni(OH) 2 superstructures for electrochemical capacitors with excellent cycling stability. Chemical Physics Letters, 2014, 610-611, 115-120.	1.2	25
2702	Anion-controlled synthesis of TiO2 nano-aggregates for Li ion battery electrodes. Materials Characterization, 2014, 96, 13-20.	1.9	9
2703	One-Step Bulk Synthesis of Stable, Near Unit-Cell Sized Oxide Nanoparticles and Nanoparticle Blends Using KO2. Inorganic Chemistry, 2014, 53, 4570-4578.	1.9	9
2704	Spherical-to-Cylindrical Transformation of Reverse Micelles and Their Templating Effect on the Growth of Nanostructures. Journal of Physical Chemistry B, 2014, 118, 4122-4131.	1.2	35
2705	Stable lithium electrodeposition in liquid and nanoporous solid electrolytes. Nature Materials, 2014, 13, 961-969.	13.3	1,382
2706	A simple approach to prepare nickel hydroxide nanosheets for enhanced pseudocapacitive performance. RSC Advances, 2014, 4, 19476-19481.	1.7	28
2707	Advanced asymmetric supercapacitor based on conducting polymer and aligned carbon nanotubes with controlled nanomorphology. Nano Energy, 2014, 9, 176-185.	8.2	93
2708	Synthesis and characterization of mesoporous NiO nano-hexagons with {110} exposed facets on worm like nickel backbone. Materials Letters, 2014, 135, 180-183.	1.3	4
2709	TiO₂ Hollow Spheres Composed of Highly Crystalline Nanocrystals Exhibit Superior Lithium Storage Properties. Angewandte Chemie - International Edition, 2014, 53, 12590-12593.	7.2	164
2710	Facile route for synthesis of mesoporous Cr2O3 sheet as anode materials for Li-ion batteries. Electrochimica Acta, 2014, 139, 76-81.	2.6	47
2711	Facile synthesis of ultrathin-shell graphene hollow spheres for high-performance lithium-ion batteries. Electrochimica Acta, 2014, 139, 96-103.	2.6	71
2712	Microwave-assisted synthesis of graphene/CoMoO4 nanocomposites with enhanced supercapacitor performance. Journal of Alloys and Compounds, 2014, 616, 58-65.	2.8	78
2713	Impact of the Specific Surface Area on the Memory Effect in Liâ€Ion Batteries: The Case of Anatase TiO₂. Advanced Energy Materials, 2014, 4, 1400829.	10.2	33
2714	A facile method for in-situ synthesis of SnO 2 /graphene as a high performance anode material for lithium-ion batteries. Applied Surface Science, 2014, 315, 400-406.	3.1	34
2715	Flower-like MnO2 decorated activated multihole carbon as high-performance asymmetric supercapacitor electrodes. Materials Letters, 2014, 135, 11-14.	1.3	55
2716	A facile template method to synthesize significantly improved LiNi0.5Mn1.5O4 using corn stalk as a bio-template. Electrochimica Acta, 2014, 141, 141-148.	2.6	32
2717	Crystalline red phosphorus incorporated with porous carbon nanofibers as flexible electrode for high performance lithium-ion batteries. Carbon, 2014, 78, 455-462.	5.4	146

#	Article	IF	Citations
2718	Enhanced photocurrent and photoluminescence spectra in MoS2 under ionic liquid gating. Nano Research, 2014, 7, 973-980.	5.8	41
2719	Possible application of 2D-boron sheets as anode material in lithium ion battery: A DFT and AIMD study. Journal of Materials Chemistry A, 2014, 2, 3856.	5.2	77
2720	Energizing wireless sensor networks by energy harvesting systems: Scopes, challenges and approaches. Renewable and Sustainable Energy Reviews, 2014, 38, 973-989.	8.2	177
2722	Direct Formation of Hedgehogâ€Like Hollow Niâ€Mn Oxides and Sulfides for Supercapacitor Electrodes. Particle and Particle Systems Characterization, 2014, 31, 857-862.	1.2	50
2723	From Waste Paper Basket to Solid State and Liâ€HEC Ultracapacitor Electrodes: A Value Added Journey for Shredded Office Paper. Small, 2014, 10, 4395-4402.	5.2	73
2724	Facile Inâ€...Situ Synthesis of Hierarchical Porous Ni/Ni(OH)₂ Hybrid Sponges with Excellent Electrochemical Energyâ€Storage Performances for Supercapacitors. Chemistry - an Asian Journal, 2014, 9, 2590-2596.	1.7	9
2725	Hierarchical Composite Electrodes of Nickel Oxide Nanoflake 3D Graphene for Highâ€Performance Pseudocapacitors. Advanced Functional Materials, 2014, 24, 6372-6380.	7.8	210
2726	Structureâ€“Property Relationship of Bifunctional MnO₂ Nanostructures: Highly Efficient, Ultra-Stable Electrochemical Water Oxidation and Oxygen Reduction Reaction Catalysts Identified in Alkaline Media. Journal of the American Chemical Society, 2014, 136, 11452-11464.	6.6	921
2727	In situ detection of hydrogen-induced phase transitions in individual palladium nanocrystals. Nature Materials, 2014, 13, 1143-1148.	13.3	261
2728	Stable 4 V-class bicontinuous cathodes by hierarchically porous carbon coating on Li₃V₂(PO₄)₃nanospheres. Nanoscale, 2014, 6, 12426-12433.	2.8	20
2729	Element-Specific Analysis of the Growth Mechanism, Local Structure, and Electronic Properties of Pt Clusters Formed on Ag Nanoparticle Surfaces. Journal of Physical Chemistry C, 2014, 118, 21714-21721.	1.5	12
2730	High electrochemical performance based on the TiO₂ nanobelt@few-layered MoS₂ structure for lithium-ion batteries. Nanoscale, 2014, 6, 12350-12353.	2.8	78
2731	Surfactant-Assisted Synthesis of Fe₂O₃Nanoparticles and F-Doped Carbon Modification toward an Improved Fe₃O₄@CF_x/LiNi_{0.5}Mn_{1.5}O₄Battery. ACS Applied Materials & Interfaces, 2014, 6, 15499-15509.	4.0	72
2732	Stable grapheneâ€“polyoxometalate nanomaterials for application in hybrid supercapacitors. Physical Chemistry Chemical Physics, 2014, 16, 20411-20414.	1.3	92
2733	Correlation between Microstructure and Electrochemical Behavior of the Mesoporous Co₃O₄ Sheet and Its Ionothermal Synthesized Hydrotalcite-like Î±-Co(OH)₂ Precursor. Journal of Physical Chemistry C, 2014, 118, 911-923.	1.5	79
2734	Model for quantitative tip-enhanced spectroscopy and the extraction of nanoscale-resolved optical constants. Physical Review B, 2014, 90, .	1.1	140
2735	Hydrothermally Formed Three-Dimensional Nanoporous Ni(OH)₂ Thin-Film Supercapacitors. ACS Nano, 2014, 8, 9622-9628.	7.3	148
2736	A rapid microwave heating route to synthesize graphene modified LiFePO4/C nanocomposite for rechargeable lithium-ion batteries. Ceramics International, 2014, 40, 15801-15806.	2.3	35

#	Article	IF	Citations
2737	Self-Assembly of Metal and Metal Oxide Nanoparticles and Nanowires into a Macroscopic Ternary Aerogel Monolith with Tailored Photocatalytic Properties. Chemistry of Materials, 2014, 26, 5576-5584.	3.2	67
2738	Cobalt-based compounds and composites as electrode materials for high-performance electrochemical capacitors. Journal of Materials Chemistry A, 2014, 2, 17212-17248.	5.2	163
2739	One-Step Electrodeposited Nickel Cobalt Sulfide Nanosheet Arrays for High-Performance Asymmetric Supercapacitors. ACS Nano, 2014, 8, 9531-9541.	7.3	687
2740	Polydopamine-Coated, Nitrogen-Doped, Hollow Carbonâ€“Sulfur Double-Layered Coreâ€“Shell Structure for Improving Lithiumâ€“Sulfur Batteries. Nano Letters, 2014, 14, 5250-5256.	4.5	361
2741	One-step synthesis of TiO₂nanorod arrays on Ti foil for supercapacitor application. Nanotechnology, 2014, 25, 435406.	1.3	26
2743	Activated natural porous silicate for a highly promising SiO_xnanostructure finely impregnated with carbon nanofibers as a high performance anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 13648.	5.2	22
2744	Facile synthesis and electrochemical performances of hollow graphene spheres as anode material for lithium-ion batteries. Nanoscale Research Letters, 2014, 9, 368.	3.1	14
2745	Micro/nano-complex-structure SiOxâ€“PANIâ€“Ag composites with homogeneously-embedded Si nanocrystals and nanopores as high-performance anodes for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 3776.	5.2	53
2746	Cobalt-Oxide-Based Materials as Water Oxidation Catalyst: Recent Progress and Challenges. ACS Catalysis, 2014, 4, 3701-3714.	5.5	451
2747	Synthesis and electrochemical properties of vanadium oxide materials and structures as Li-ion battery positive electrodes. Journal of Power Sources, 2014, 267, 831-873.	4.0	138
2748	Interpenetrated Gel Polymer Binder for Highâ€Performance Silicon Anodes in Lithiumâ€ion Batteries. Advanced Functional Materials, 2014, 24, 5904-5910.	7.8	459
2749	Morphological Changes of Tungsten Surfaces by Low-Flux Helium Plasma Treatment and Helium Incorporation via Magnetron Sputtering. ACS Applied Materials & Interfaces, 2014, 6, 11609-11616.	4.0	37
2750	Synthesis and electrochemical properties of Li 4 Ti 5 O 12 spheres and its application for hybrid supercapacitors. Electrochimica Acta, 2014, 146, 37-43.	2.6	45
2751	Aging-Induced Chemical and Morphological Modifications of Thin Film Iron Oxide Electrodes for Lithium-Ion Batteries. Langmuir, 2014, 30, 3538-3547.	1.6	25
2752	Current-induced transition from particle-by-particle to concurrent intercalation in phase-separating battery electrodes. Nature Materials, 2014, 13, 1149-1156.	13.3	274
2753	Molten salt synthesis of tin doped hematite nanodiscs and their enhanced electrochemical performance for Li-ion batteries. RSC Advances, 2014, 4, 32781-32786.	1.7	10
2754	Solid-state synthesis of SnO₂â€“graphene nanocomposite for photocatalysis and formaldehyde gas sensing. RSC Advances, 2014, 4, 46179-46186.	1.7	43
2755	Highly Porous NiCo₂O₄ Nanoflakes and Nanobelts as Anode Materials for Lithium-Ion Batteries with Excellent Rate Capability. ACS Applied Materials & Interfaces, 2014, 6, 14827-14835.	4.0	187

#	Article	IF	Citations
2756	Fabrication and characteristics of spherical hierarchical LiFePO4/C cathode material by a facile method. Electrochimica Acta, 2014, 147, 330-336.	2.6	14
2757	Rational design of MoS₂@graphene nanocables: towards high performance electrode materials for lithium ion batteries. Energy and Environmental Science, 2014, 7, 3320-3325.	15.6	218
2758	Evaluation of Electrochemical Charge Storage Mechanism and Structural Changes in Intertwined MoO3â€“MWCNTs Composites for Supercapacitor Applications. Electrochimica Acta, 2014, 147, 380-384.	2.6	20
2759	Ultra-high capacitance hematite thin films with controlled nanoscopic morphologies. Nanoscale, 2014, 6, 10643-10649.	2.8	22
2760	Aqueous Rechargeable Li and Na Ion Batteries. Chemical Reviews, 2014, 114, 11788-11827.	23.0	1,183
2761	Selfâ€Assembly of Honeycombâ€like MoS₂ Nanoarchitectures Anchored into Graphene Foam for Enhanced Lithiumâ€Ion Storage. Advanced Materials, 2014, 26, 7162-7169.	11.1	408
2762	Highly Reversible and Large Lithium Storage in Mesoporous Si/C Nanocomposite Anodes with Silicon Nanoparticles Embedded in a Carbon Framework. Advanced Materials, 2014, 26, 6749-6755.	11.1	260
2763	Mesoporous single-crystalline V₂O₅nanorods assembled into hollow microspheres as cathode materials for high-rate and long-life lithium-ion batteries. Chemical Communications, 2014, 50, 13362-13365.	2.2	46
2764	Lithium-ion Battery Materials and Engineering. Green Energy and Technology, 2014, , .	0.4	24
2765	Fast and Reliable Metamodeling of Complex Reaction Spaces Using Universal Kriging. Journal of Physical Chemistry C, 2014, 118, 20026-20033.	1.5	45
2766	Synthesis of Few-Layer Reduced Graphene Oxide for Lithium-Ion Battery Electrode Materials. Industrial & Engineering Chemistry Research, 2014, 53, 13348-13355.	1.8	32
2767	Lithium insertion into TiO2 (anatase): electrochemistry, Raman spectroscopy, and isotope labeling. Journal of Solid State Electrochemistry, 2014, 18, 2297-2306.	1.2	51
2768	Design, Fabrication, and Modification of Cost-Effective Nanostructured TiO2 for Solar Energy Applications. Green Energy and Technology, 2014, , 9-54.	0.4	3
2769	Morphology controlled synthesis of NiCo 2 O 4 nanosheet array nanostructures on nickel foam and their application for pseudocapacitors. Electrochimica Acta, 2014, 142, 118-124.	2.6	88
2770	Nanoporous metal based flexible asymmetric pseudocapacitors. Journal of Materials Chemistry A, 2014, 2, 10910-10916.	5.2	87
2771	Electrochemical and Corrosion Stability of Nanostructured Silicon by Graphene Coatings: Toward High Power Porous Silicon Supercapacitors. Journal of Physical Chemistry C, 2014, 118, 10893-10902.	1.5	74
2772	Stabilizing nanostructured lithium insertion materials via organic hybridization: A step forward towards high-power batteries. Journal of Power Sources, 2014, 248, 852-860.	4.0	15
2773	Rational design of manganese dioxide decorated skeleton of colloidal mesoporous carbon nanocomposites for supercapacitors. Ceramics International, 2014, 40, 13381-13388.	2.3	12

#	Article	IF	Citations
2774	High lithium ion conductivity of Li7La3Zr2O12 synthesized by solid state reaction. Solid State Ionics, 2014, 258, 13-17.	1.3	36
2776	Phase and Dimensionality of Tin Oxide at graphene nanosheet array and its Electrochemical performance as anode for Lithium Ion Battery. Electrochimica Acta, 2014, 125, 380-385.	2.6	17
2777	Manganese dioxide nanosheet arrays grown on graphene oxide as an advanced electrode material for supercapacitors. Electrochimica Acta, 2014, 117, 528-533.	2.6	78
2778	Synthesis and characterization of LiFePO4 electrode materials coated by graphene. Applied Surface Science, 2014, 305, 427-432.	3.1	50
2779	Controlled growth of mesoporous ZnCo₂O₄ nanosheet arrays on Ni foam as high-rate electrodes for supercapacitors. RSC Advances, 2013, 4, 2393-2397.	1.7	85
2780	Facile fabrication of three-dimensional highly ordered structural polyanilineâ€“graphene bulk hybrid materials for high performance supercapacitor electrodes. Journal of Materials Chemistry A, 2014, 2, 813-823.	5.2	134
2781	On the potential use of carbon-free mesoporous precursors of LiFePO4 for lithium-ion batteries electrode. Solid State Ionics, 2014, 255, 30-38.	1.3	5
2782	Sequential Activation and Oscillations of Globally Coupled Microelectrodes during a Bistable Reaction. ChemElectroChem, 2014, 1, 1046-1056.	1.7	13
2783	3D micro-porous conducting carbon beehive by single step polymer carbonization for high performance supercapacitors: the magic of in situ porogen formation. Energy and Environmental Science, 2014, 7, 728-735.	15.6	348
2784	Poly(3,4-ethylenedioxythiophene) Sheath Over a SnO₂ Hollow Spheres/Graphene Oxide Hybrid for a Durable Anode in Li-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 7296-7306.	1.5	63
2785	Ideal Threeâ€Đimensional Electrode Structures for Electrochemical Energy Storage. Advanced Materials, 2014, 26, 2440-2445.	11.1	223
2786	Electrospun polyimide-based fiber membranes as polymer electrolytes for lithium-ion batteries. Electrochimica Acta, 2014, 132, 538-544.	2.6	96
2787	Spaceâ€“Charge Layer Effect at Interface between Oxide Cathode and Sulfide Electrolyte in All-Solid-State Lithium-Ion Battery. Chemistry of Materials, 2014, 26, 4248-4255.	3.2	426
2788	Composition Optimization of Layered Lithium Nickel Manganese Cobalt Oxide Materials Synthesized via Ultrasonic Spray Pyrolysis. Journal of the Electrochemical Society, 2014, 161, A1338-A1349.	1.3	13
2789	Nanostructured metal sulfides for energy storage. Nanoscale, 2014, 6, 9889-9924.	2.8	888
2790	Amorphous nickelâ€“boron and nickelâ€“manganeseâ€“boron alloy as electrochemical pseudocapacitor materials. RSC Advances, 2014, 4, 27800-27804.	1.7	26
2791	Multifunctional catalysts of three-dimensionally ordered macroporous oxide-supported Au@Pt coreâ€“shell nanoparticles with high catalytic activity and stability for soot oxidation. Journal of Catalysis, 2014, 317, 62-74.	3.1	84
2792	Hybrid materials science: a promised land for the integrative design of multifunctional materials. Nanoscale, 2014, 6, 6267-6292.	2.8	168

#	Article	IF	Citations
2793	Flexible Binder-Free Metal Fibril Mat-Supported Silicon Anode for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 11544-11549.	4.0	32
2794	Facile construction of ultrathin standing Î±-Ni(OH)₂ nanosheets on halloysite nanotubes and their enhanced electrochemical capacitance. Journal of Materials Chemistry A, 2014, 2, 11299-11304.	5.2	46
2795	Study on SnO2/graphene composites with superior electrochemical performance for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 9345.	5.2	42
2796	A high-performance alginate hydrogel binder for the Si/C anode of a Li-ion battery. Chemical Communications, 2014, 50, 6386.	2.2	181
2797	Cobalt Hexacyanoferrate Nanoparticles as a High-Rate and Ultra-Stable Supercapacitor Electrode Material. ACS Applied Materials & Interfaces, 2014, 6, 11007-11012.	4.0	171
2798	Nanoparticle Growth in Supported Nickel Catalysts during Methanation Reactionâ€"Larger is Better. Angewandte Chemie - International Edition, 2014, 53, 9493-9497.	7.2	84
2799	Easy fabrication and high electrochemical capacitive performance of hierarchical porous carbon by a method combining liquid-liquid phase separation and pyrolysis process. Electrochimica Acta, 2014, 138, 367-375.	2.6	37
2800	ZIF-derived porous carbon: a promising supercapacitor electrode material. Journal of Materials Chemistry A, 2014, 2, 12873.	5.2	171
2801	Molecular Dynamics Simulation Study of a Polysulfone-Based Anion Exchange Membrane in Comparison with the Proton Exchange Membrane. Journal of Physical Chemistry C, 2014, 118, 12577-12587.	1.5	84
2802	Synthesis of Structurally Ordered Pt₃Ti and Pt₃V Nanoparticles as Methanol Oxidation Catalysts. Journal of the American Chemical Society, 2014, 136, 10206-10209.	6.6	197
2803	Electrochemical Charge-Transfer Resistance in Carbon Nanotube Composites. Nano Letters, 2014, 14, 1329-1336.	4.5	39
2804	Resilient mesoporous TiO2/graphene nanocomposite for high rate performance lithium-ion batteries. Chemical Engineering Journal, 2014, 256, 247-254.	6.6	107
2805	Degradation and Structural Evolution ofxLi₂MnO₃Â·(1â€"x)LiMn_{1/3}Ni_{1/3}Co_{1/3}O₂ Cycling. Journal of the Electrochemical Society, 2014, 161, A160-A167.	1.3	50
2806	Mesoporous carbon with large pores as anode for Na-ion batteries. Science Bulletin, 2014, 59, 2186-2190.	1.7	36
2807	Heteroatom-doped graphene for electrochemical energy storage. Science Bulletin, 2014, 59, 2102-2121.	1.7	47
2809	Estimation of electron transfer properties of ferrocenyl-dicholesteryl-peptide in liquid and gel. Journal of Colloid and Interface Science, 2014, 417, 310-316.	5.0	8
2810	Low cost and flexible mesh-based supercapacitors for promising large-area flexible/wearable energy storage. Nano Energy, 2014, 6, 82-91.	8.2	44
2811	Sustainable one-pot aqueous route to hierarchical carbonâ€"MoO2 electrodes for Li-ion batteries. RSC Advances, 2014, 4, 21208.	1.7	14

#	Article	IF	Citations
2812	In situ coating of NiO on Ni-silicide nanowires with roughened surfaces for improved electrochemical energy storage. Journal of Materials Chemistry A, 2014, 2, 9156.	5.2	5
2813	Synergy of W₁₈O₄₉ and Polyaniline for Smart Supercapacitor Electrode Integrated with Energy Level Indicating Functionality. Nano Letters, 2014, 14, 2150-2156.	4.5	275
2814	Facile Fabrication of Porous Ni_xCo_{3â€“x}O₄ Nanosheets with Enhanced Electrochemical Performance As Anode Materials for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 9256-9264.	4.0	141
2815	Construction of Pd-based nanocatalysts for fuel cells: opportunities and challenges. Catalysis Science and Technology, 2014, 4, 4116-4128.	2.1	106
2816	Facile synthesis of maghemite nanoflakes arrays for supercapacitor application. Materials Science in Semiconductor Processing, 2014, 27, 682-688.	1.9	8
2817	Meso-oblate Spheroids of Thermal-Stabile Linker-Free Aggregates with Size-Tunable Subunits for Reversible Lithium Storage. ACS Applied Materials & Interfaces, 2014, 6, 1173-1179.	4.0	16
2818	Stepwise co-precipitation to synthesize LiNi1/3Co1/3Mn1/3O2 one-dimensional hierarchical structure for lithium ion batteries. Journal of Power Sources, 2014, 272, 144-151.	4.0	78
2819	Toward Lithium Ion Batteries with Enhanced Thermal Conductivity. ACS Nano, 2014, 8, 7202-7207.	7.3	54
2820	Mechanical Forceâ€Ðriven Growth of Elongated Bending TiO₂â€þbased Nanotubular Materials for Ultrafast Rechargeable Lithium Ion Batteries. Advanced Materials, 2014, 26, 6111-6118.	11.1	386
2821	Tunable near-infrared emission of binary nano- and mesoscale GUMBOS. RSC Advances, 2014, 4, 28471-28480.	1.7	16
2822	Nonequilibrium Structural Dynamics of Nanoparticles in LiNi_{1/2}Mn_{3/2}O₄ Cathode under Operando Conditions. Nano Letters, 2014, 14, 5295-5300.	4.5	67
2823	Assembly of Na₃V₂(PO₄)₃ Nanoparticles Confined in a Oneâ€Ðimensional Carbon Sheath for Enhanced Sodiumâ€Ion Cathode Properties. Chemistry - A European Journal, 2014, 20, 12636-12640.	1.7	72
2824	A comparative study of enhanced electrochemical stability of tinâ€“nickel alloy anode for high-performance lithium ion battery. Journal of Alloys and Compounds, 2014, 617, 464-471.	2.8	17
2825	High Reversible Capacity Si/C Composite Anodes for Lithium-Ion Rechargeable Batteries. Rare Metal Materials and Engineering, 2014, 43, 1073-1078.	0.8	7
2826	Nanocarbon-Based Hybrid Materials for Electrocatalytical Energy Conversion: Novel Materials and Methods. IEEE Nanotechnology Magazine, 2014, 8, 22-28.	0.9	4
2827	Enhanced protein adsorption and cellular adhesion using transparent titanate nanotube thin films made by a simple and inexpensive room temperature process: Application to optical biochips. Colloids and Surfaces B: Biointerfaces, 2014, 122, 491-497.	2.5	8
2828	Co₃O₄/porous electrospun carbon nanofibers as anodes for high performance Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 16939-16944.	5.2	115
2829	Graphene, inorganic graphene analogs and their composites for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 12104.	5.2	251

#	Article	IF	Citations
2830	A novel SnS₂@graphene nanocable network for high-performance lithium storage. RSC Advances, 2014, 4, 23372-23376.	1.7	44
2831	Mesoporous CoO Nanocubes @ Continuous 3D Porous Carbon Skeleton of Rose-Based Electrode for High-Performance Supercapacitor. ACS Applied Materials & Interfaces, 2014, 6, 11839-11845.	4.0	87
2832	Facile synthesis of mesoporous spinel NiCo₂O₄nanostructures as highly efficient electrocatalysts for urea electro-oxidation. Nanoscale, 2014, 6, 1369-1376.	2.8	283
2833	Sodium-cutting: a new top-down approach to cut open nanostructures on nonplanar surfaces on a large scale. Chemical Communications, 2014, 50, 13327-13330.	2.2	9
2834	Facile and Green Preparation for the Formation of MoO₂-GO Composites as Anode Material for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 24890-24897.	1.5	58
2835	Hierarchical porous Î±-Ni(OH)₂grown from a compact ion layer as an electrode by using one-pot synthesis and its pseudocapacitive behaviour. RSC Advances, 2014, 4, 567-571.	1.7	14
2836	Role of Surface Functionality in the Electrochemical Performance of Silicon Nanowire Anodes for Rechargeable Lithium Batteries. ACS Applied Materials & Interfaces, 2014, 6, 7607-7614.	4.0	30
2837	Bacterial Nanometric Amorphous Fe-Based Oxide: A Potential Lithium-Ion Battery Anode Material. ACS Applied Materials & Interfaces, 2014, 6, 5374-5378.	4.0	41
2838	N-doped TiO₂nanotubes/N-doped graphene nanosheets composites as high performance anode materials in lithium-ion battery. Journal of Materials Chemistry A, 2014, 2, 15473.	5.2	113
2839	Effect of Waveform of ac Voltage on the Morphology and Crystallinity of Electrochemically Assembled Platinum Nanowires. Langmuir, 2014, 30, 5655-5661.	1.6	3
2840	Synthesis of LiMn₂O₄ with Outstanding Lithiumâ€insertion Kinetics and Longâ€Term Stability. ChemElectroChem, 2014, 1, 1537-1542.	1.7	7
2841	Ultrathin and Lightweight 3D Free-Standing Ni@NiO Nanowire Membrane Electrode for a Supercapacitor with Excellent Capacitance Retention at High Rates. ACS Applied Materials & Interfaces, 2014, 6, 13627-13634.	4.0	71
2842	Enhanced electrochemical performance of MnO nanowire/graphene composite during cycling as the anode material for lithium-ion batteries. Nano Energy, 2014, 10, 172-180.	8.2	171
2843	The role of electronic interaction in the use of Ag and Mn₃O₄hybrid nanocrystals covalently coupled with carbon as advanced oxygen reduction electrocatalysts. Journal of Materials Chemistry A, 2014, 2, 17477-17488.	5.2	96
2844	Hierarchical nanostructures of polypyrrole@MnO2 composite electrodes for high performance solid-state asymmetric supercapacitors. Nanoscale, 2014, 6, 2922.	2.8	103
2845	High-Density, Stretchable, All-Solid-State Microsupercapacitor Arrays. ACS Nano, 2014, 8, 8844-8855.	7.3	96
2846	An extremely stable MnO2 anode incorporated with 3D porous graphene-like networks for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 3163.	5.2	91
2847	Vapour solid reaction growth of SnO2 nanorods as an anode material for Li ion batteries. RSC Advances, 2014, 4, 26115-26121.	1.7	4

#	Article	IF	Citations
2848	LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Nanoplates with {010} Active Planes Exposing Prepared in Polyol Medium as a High-Performance Cathode for Li-Ion Battery. ACS Applied Materials & Interfaces, 2014, 6, 5075-5082.	4.0	127
2849	Hierarchically porous three-dimensional electrodes of CoMoO₄and ZnCo₂O₄and their high anode performance for lithium ion batteries. Nanoscale, 2014, 6, 10556.	2.8	77
2850	Hierarchical porous NiCo₂O₄ nanograss arrays grown on Ni foam as electrode material for high-performance supercapacitors. RSC Advances, 2014, 4, 20234-20238.	1.7	29
2851	Nanostructured (Co, Ni)-Based Compounds Coated on a Highly Conductive Three Dimensional Hollow Carbon Nanorod Array (HCNA) Scaffold for High Performance Pseudocapacitors. ACS Applied Materials & Interfaces, 2014, 6, 7735-7742.	4.0	68
2852	Recent advances in porous graphene materials for supercapacitor applications. RSC Advances, 2014, 4, 45862-45884.	1.7	213
2853	Controlled Growth of CoS_x Nanostrip Arrays (CoS_xâ€NSA) on Nickel Foam for Asymmetric Supercapacitors. Energy Technology, 2014, 2, 401-408.	1.8	75
2854	NiO thin films grown directly on Cu foils by pulsed laser deposition as anode materials for lithium ion batteries. Materials Letters, 2014, 132, 357-360.	1.3	54
2855	Series asymmetric supercapacitors based on free-standing inner-connection electrodes for high energy density and high output voltage. Nanoscale, 2014, 6, 15073-15079.	2.8	33
2856	In Situ Preparation of 1D Co@C Composite Nanorods as Negative Materials for Alkaline Secondary Batteries. ACS Applied Materials & Interfaces, 2014, 6, 3863-3869.	4.0	35
2857	Fe₂O₃@SnO₂ nanoparticle decorated graphene flexible films as high-performance anode materials for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 4598-4604.	5.2	70
2858	Stretchable Carbon Nanotube/Ionâ€“Gel Supercapacitors with High Durability Realized through Interfacial Microroughness. ACS Applied Materials & Interfaces, 2014, 6, 13578-13586.	4.0	86
2859	Template-directed synthesis of pyrite (FeS₂) nanorod arrays with an enhanced photoresponse. Journal of Materials Chemistry A, 2014, 2, 9496-9505.	5.2	58
2860	Confining Pt nanoparticles in porous carbon structures for achieving durable electrochemical performance. Nanoscale, 2014, 6, 11863-11870.	2.8	25
2861	A comparison of carbon supports in MnO₂/C supercapacitors. RSC Advances, 2014, 4, 31416.	1.7	22
2862	Highâ€Performance Hybrid Supercapacitor Based on Grapheneâ€Wrapped Li₄Ti₅O₁₂ and Activated Carbon. ChemElectroChem, 2014, 1, 125-130.	1.7	137
2863	Electrochemical behavior of zinc oxide-based porous carbon composite nanofibers as an electrode for electrochemical capacitors. Journal of Electroanalytical Chemistry, 2014, 730, 1-9.	1.9	18
2864	Pore Confined Synthesis of Magnesium Boron Hydride Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 20832-20839.	1.5	24
2865	A Facile Synthetic Approach to Reduced Graphene Oxideâ€“Fe3O4 Composite as High Performance Anode for Lithium-ion Batteries. Journal of Materials Science and Technology, 2014, 30, 759-764.	5.6	29

#	Article	IF	Citations
2866	Li2MnSiO4 cathodes modified by phosphorous substitution and the structural consequences. Solid State Ionics, 2014, 259, 29-39.	1.3	17
2867	High lithium storage capacity and rate capability achieved by mesoporous Co 3 O 4 hierarchical nanobundles. Journal of Power Sources, 2014, 247, 49-56.	4.0	133
2868	Long cycle life lithium ion battery with lithium nickel cobalt manganese oxide (NCM) cathode. Journal of Power Sources, 2014, 261, 285-291.	4.0	150
2869	Three-Dimensional Co₃O₄@NiMoO₄ Core/Shell Nanowire Arrays on Ni Foam for Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2014, 6, 5050-5055.	4.0	198
2870	A New Type of Porous Graphite Foams and Their Integrated Composites with Oxide/Polymer Core/Shell Nanowires for Supercapacitors: Structural Design, Fabrication, and Full Supercapacitor Demonstrations. Nano Letters, 2014, 14, 1651-1658.	4.5	428
2871	Templated assembly of photoswitches significantly increases the energy-storage capacity of solar thermal fuels. Nature Chemistry, 2014, 6, 441-447.	6.6	261
2872	Enhanced Electrochemical Performance with Surface Coating by Reactive Magnetron Sputtering on Lithium-Rich Layered Oxide Electrodes. ACS Applied Materials & Interfaces, 2014, 6, 9185-9193.	4.0	98
2873	Surface coating of lithiumâ€“manganese-rich layered oxides with delaminated MnO2 nanosheets as cathode materials for Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 4422.	5.2	112
2874	Carbohydrate-Derived Nanoarchitectures: On a Synergistic Effect Toward an Improved Performance in Lithiumâ€“Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2014, 2, 126-129.	3.2	29
2875	Facile synthesis of cerium oxide nanostructures for rechargeable lithium battery electrode materials. RSC Advances, 2014, 4, 14872-14878.	1.7	35
2876	Rutile (Î²-)MnO₂ Surfaces and Vacancy Formation for High Electrochemical and Catalytic Performance. Journal of the American Chemical Society, 2014, 136, 1418-1426.	6.6	186
2877	Graphenal Polymers for Energy Storage. Small, 2014, 10, 2122-2135.	5.2	35
2878	Electrospray deposition of a Co₃O₄nanoparticlesâ€“graphene composite for a binder-free lithium ion battery electrode. RSC Advances, 2014, 4, 1521-1525.	1.7	29
2879	Charging Mechanism and Moving Reaction Fronts in a Supercapacitor with Pseudocapacitance. Journal of the Electrochemical Society, 2014, 161, A239-A246.	1.3	15
2880	Hierarchical Carbon Decorated Li₃V₂(PO₄)₃ as a Bicontinuous Cathode with Highâ€Rate Capability and Broad Temperature Adaptability. Advanced Energy Materials, 2014, 4, 1400107.	10.2	70
2881	Anion charge storage through oxygen intercalation in LaMnO3 perovskite pseudocapacitor electrodes. Nature Materials, 2014, 13, 726-732.	13.3	589
2882	Effects of highly crumpled graphene nanosheets on the electrochemical performances of pseudocapacitor electrode materials. Electrochimica Acta, 2014, 133, 180-187.	2.6	50
2883	Mechanistic study of synthesis of gold nanoparticles using multi-functional polymer. Chemical Physics Letters, 2014, 592, 265-271.	1.2	19

#	Article	IF	Citations
2884	Facile preparation and electrochemical properties of carbon coated Fe3O4 as anode material for lithium-ion batteries. Journal of Power Sources, 2014, 259, 92-97.	4.0	69
2885	Ultra-high stability and durability of iron oxide micro- and nano-structures with discovery of new three-dimensional structural formation of grain and boundary. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 456, 184-194.	2.3	13
2886	Structure and electrochemical properties of electrospun carbon fiber composites containing graphene. Journal of Industrial and Engineering Chemistry, 2014, 20, 3474-3479.	2.9	46
2887	Microwave-assisted hydrothermal synthesis of electrochemically active nano-sized Li2MnO3 dispersed on carbon nanotube network for lithium ion batteries. Journal of Alloys and Compounds, 2014, 591, 356-361.	2.8	20
2888	Morphological effects on the electrochemical performance of lithium-rich layered oxide cathodes, prepared by electrospinning technique, for lithium-ion battery applications. Materials Characterization, 2014, 92, 118-126.	1.9	16
2889	TiO2-core/Sn-shell Nanotube Arrays Based on Monolithic Negative Electrode for Li-ion Batteries. Electrochimica Acta, 2014, 130, 600-605.	2.6	20
2890	Mn3O4 nanoparticles anchored on continuous carbon nanotube network as superior anodes for lithium ion batteries. Journal of Power Sources, 2014, 249, 463-469.	4.0	68
2891	A facile one-pot synthesis of TiO2/nitrogen-doped reduced graphene oxide nanocomposite as anode materials for high-rate lithium-ion batteries. Electrochimica Acta, 2014, 133, 209-216.	2.6	59
2892	Study of Co3O4 mesoporous nanosheets prepared by a simple spray-drying process and their electrochemical properties as anode material for lithium secondary batteries. Electrochimica Acta, 2014, 116, 44-50.	2.6	33
2893	Electrochemical performance studies of Li-rich cathode materials with different primary particle sizes. Journal of Power Sources, 2014, 251, 208-214.	4.0	66
2894	Synthesis and electrochemical performance of a LiMn1.83Co0.17O4 shell/LiMn2O4 core cathode material. Ceramics International, 2014, 40, 8455-8463.	2.3	16
2895	Outstanding rate capability and long cycle stability induced by homogeneous distribution of nitrogen doped carbon and titanium nitride on the surface and in the bulk of spinel lithium titanate. Electrochimica Acta, 2014, 132, 230-238.	2.6	24
2896	Facile synthesis and advanced performance of Ni(OH)2/CNTs nanoflake composites on supercapacitor applications. Chemical Physics Letters, 2014, 601, 168-173.	1.2	54
2897	Template-free synthesis of hierarchical porous anatase TiO2 microspheres with carbon coating and their electrochemical properties. Chemical Engineering Journal, 2014, 241, 216-227.	6.6	48
2898	Reliable benchmark material for anatase TiO2 in Li-ion batteries: On the role of dehydration of commercial TiO2. Journal of Power Sources, 2014, 266, 155-161.	4.0	24
2899	Structural and electrical characterisation of nanostructure electrodes for SOFCs. International Journal of Hydrogen Energy, 2014, 39, 17487-17491.	3.8	4
2900	Facile synthesis of carbon-supported, ultrasmall ruthenium oxide nanocrystals for supercapacitor electrode materials. Chemical Physics Letters, 2014, 592, 192-195.	1.2	24
2901	Hierarchically porous nanoflowers from TiO2â€“B nanosheets with ultrahigh surface area for advanced lithium-ion batteries. Journal of Physics and Chemistry of Solids, 2014, 75, 619-623.	1.9	24

#	Article	IF	Citations
2902	One-step hydrothermal method synthesis of coreâ€“shell LiNi0.5Mn1.5O4 spinel cathodes for Li-ion batteries. Journal of Power Sources, 2014, 256, 66-71.	4.0	61
2903	A facile synthesis of encapsulated CoFe2O4 into carbon nanofibres and its application as conversion anodes for lithium ion batteries. Journal of Power Sources, 2014, 260, 205-210.	4.0	55
2904	One novel and universal method to prepare transition metal nitrides doped graphene anodes for Li-ion battery. Electrochimica Acta, 2014, 134, 28-34.	2.6	41
2905	Electrospun nanofiber of hybrid manganese oxides for supercapacitor: Relevance to mixed inorganic interfaces. Journal of Power Sources, 2014, 255, 335-340.	4.0	60
2906	Ultrathin carbon nanopainting of LiFePO4 by oxidative surface polymerization of dopamine. Journal of Power Sources, 2014, 265, 239-245.	4.0	25
2907	Micro/nano-structure Co3O4 as high capacity anode materials for lithium-ion batteries and the effect of the void volume on electrochemical performance. Journal of Power Sources, 2014, 248, 289-295.	4.0	63
2908	DFT study of the trioxotriangulene derivatives in bulk state. Chemical Physics Letters, 2014, 598, 48-52.	1.2	4
2909	Preparation and characterization of poly(vinyl alcohol)/sodium alginate blended membrane for alkaline solid polymer electrolytes membrane. Journal of Membrane Science, 2014, 457, 139-148.	4.1	102
2910	Controllable growth of TiO2-B nanosheet arrays on carbon nanotubes as a high-rate anode material for lithium-ion batteries. Carbon, 2014, 69, 302-310.	5.4	79
2911	Analysis of composition homogeneity and polarization orientation of PZT submicron fibers by micro-Raman spectroscopy. Journal of the European Ceramic Society, 2014, 34, 2311-2316.	2.8	4
2912	Growth of polycrystalline nickel hydroxide films from aqueous solution. Solution chemistry, deposition methods, film morphology and texture. Thin Solid Films, 2014, 552, 1-9.	0.8	4
2913	Solvothermal synthesis and electrochemical performance in super-capacitors of Co3O4/C flower-like nanostructures. Journal of Power Sources, 2014, 248, 1281-1289.	4.0	105
2914	Ascorbic acid-assisted synthesis of cobalt ferrite (CoFe2O4) hierarchical flower-like microspheres with enhanced lithium storage properties. Journal of Power Sources, 2014, 256, 153-159.	4.0	94
2915	Fast production of ZnO nanorods by arc discharge in de-ionized water and applications in dye-sensitized solar cells. Journal of Alloys and Compounds, 2014, 586, 593-599.	2.8	31
2916	A novel lithium vanadium fluorophosphate nanosheet with uniform carbon coating as a cathode material for lithium-ion batteries. Journal of Power Sources, 2014, 264, 123-127.	4.0	50
2917	Anisotropic compositional expansion in elastoplastic materials and corresponding chemical potential: Large-strain formulation and application to amorphous lithiated silicon. Journal of the Mechanics and Physics of Solids, 2014, 69, 84-111.	2.3	35
2918	Microstructure evolution of Li uptake/removal in MoO2@C nanoparticles with high lithium storage performance. Materials Research Bulletin, 2014, 50, 95-102.	2.7	18
2919	Construction of 3-dimensional ZnO-nanoflower structures for high quantum and photocurrent efficiency in dye sensitized solar cell. Applied Surface Science, 2014, 318, 32-36.	3.1	49

#	Article	IF	Citations
2920	Facile synthesis of FePO4Â·2H2O submicrometer-discs. Materials Letters, 2014, 123, 128-130.	1.3	15
2921	Alignment-controlled hydrothermal growth of well-aligned ZnO nanorod arrays. Journal of Physics and Chemistry of Solids, 2014, 75, 808-817.	1.9	44
2922	Self-assembly of NiO/graphene with three-dimension hierarchical structure as high performance electrode material for supercapacitors. Journal of Alloys and Compounds, 2014, 597, 291-298.	2.8	76
2923	A chemical and electrochemical multivalent memory made from FeNi3-graphene nanocomposites. Electrochemistry Communications, 2014, 39, 15-18.	2.3	14
2924	MnO2@colloid carbon spheres nanocomposites with tunable interior architecture for supercapacitors. Materials Research Bulletin, 2014, 49, 448-453.	2.7	41
2925	Amorphous carbon-coated prickle-like silicon of micro and nano hybrid anode materials for lithium-ion batteries. Solid State Ionics, 2014, 260, 36-42.	1.3	12
2926	Fuel cell performance of Pt electrocatalysts supported on carbon nanocoils. International Journal of Hydrogen Energy, 2014, 39, 5371-5377.	3.8	31
2927	Electrochemical performance of NaCo2O4 as electrode for supercapacitors. Chinese Chemical Letters, 2014, 25, 269-272.	4.8	5
2928	Cycling performance of lithium-ion polymer batteries assembled using in-situ chemical cross-linking without a free radical initiator. Solid State Ionics, 2014, 255, 6-12.	1.3	25
2929	Hydrothermal synthesis and electrochemical properties of hexagonal hydrohausmannite plates as supercapacitor electrode material. Materials Letters, 2014, 117, 62-65.	1.3	13
2930	Grain boundary driven capacity fade/hysteresis abated in composite cathode material for lithium-ion batteries/pouch cell. Journal of Power Sources, 2014, 264, 299-310.	4.0	16
2931	Synthesis of high-voltage spinel cathode material with tunable particle size and improved temperature durability for lithium ion battery. Journal of Power Sources, 2014, 262, 483-487.	4.0	10
2932	Nanostructured Fe3O4@C as anode material for lithium-ion batteries. Journal of Power Sources, 2014, 248, 15-21.	4.0	110
2933	Simple method for the preparation of highly porous ZnCo2O4 nanotubes with enhanced electrochemical property for supercapacitor. Electrochimica Acta, 2014, 123, 450-455.	2.6	160
2934	Structural and electrochemical properties of aluminium doped LiMn2O4 cathode materials for Li battery: Experimental and ab initio calculations. Sustainable Energy Technologies and Assessments, 2014, 5, 44-49.	1.7	38
2935	Nitrogen/phosphorus co-doped nonporous carbon nanofibers for high-performance supercapacitors. Journal of Power Sources, 2014, 248, 745-751.	4.0	147
2936	Hollow Zn2SnO4 boxes coated with N-doped carbon for advanced lithium-ion batteries. Ceramics International, 2014, 40, 2275-2280.	2.3	29
2937	A general approach for MFe 2 O 4 (MÂ=ÂZn, Co, Ni) nanorods and their high performance as anode materials for lithium ion batteries. Journal of Power Sources, 2014, 247, 163-169.	4.0	158

#	Article	IF	Citations
2938	Enhanced Symmetric Supercapacitive Performance of Co(OH)2 Nanorods Decorated Conducting Porous Graphene Foam Electrodes. Electrochimica Acta, 2014, 129, 334-342.	2.6	91
2939	Silicon oxycarbide-derived carbons from a polyphenylsilsequioxane precursor for supercapacitor applications. Microporous and Mesoporous Materials, 2014, 188, 140-148.	2.2	48
2940	Green synthesis of mesoporous ZnFe2O4/C composite microspheres as superior anode materials for lithium-ion batteries. Journal of Power Sources, 2014, 258, 305-313.	4.0	97
2941	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0008.gif" overflow="scroll"><mml:msup><mml:msub><mml:mrow><mml:mi mathvariant="normal">SO</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub><mml:mrow><mml as a new electrode for electrochemical supercapacitors. Ceramics International, 2014, 40, 8925-8929.	2.3	10
2942	Pyrophosphate Na2FeP2O7 as a low-cost and high-performance positive electrode material for sodium secondary batteries utilizing an inorganic ionic liquid. Journal of Power Sources, 2014, 246, 783-787.	4.0	77
2943	Nanoflake nickel hydroxide and reduced graphene oxide composite as anode materials for high capacity lithium ion batteries. Electrochimica Acta, 2014, 132, 364-369.	2.6	46
2944	Flexible patterned micro-electrochemical capacitors based on PEDOT. Chemical Communications, 2014, 50, 6789-6792.	2.2	34
2945	Chemical Routes to Graphene-Based Flexible Electrodes for Electrochemical Energy Storage. Green Energy and Technology, 2014, , 425-455.	0.4	1
2946	Bismuth oxide nanotubesâ€“graphene fiber-based flexible supercapacitors. Nanoscale, 2014, 6, 8595.	2.8	121
2947	Twisted Aligned Carbon Nanotube/Silicon Composite Fiber Anode for Flexible Wireâ€Shaped Lithiumâ€Ion Battery. Advanced Materials, 2014, 26, 1217-1222.	11.1	297
2948	Solution-based synthesis of anisotropic metal chalcogenide nanocrystals and their applications. Journal of Materials Chemistry C, 2014, 2, 6222-6248.	2.7	66
2949	Additive-Free Hollow-Structured Co₃O₄ Nanoparticle Li-Ion Battery: The Origins of Irreversible Capacity Loss. ACS Nano, 2014, 8, 6701-6712.	7.3	94
2950	Construction of Hybrid Supercapacitorâ€“Batteries with dualâ€scale shelled architecture. ChemSusChem, 2014, 7, 1881-1887.	3.6	8
2951	A V₂O₅/Conductiveâ€Polymer Core/Shell Nanobelt Array on Threeâ€Dimensional Graphite Foam: A Highâ€Rate, Ultrastable, and Freestanding Cathode for Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 5794-5800.	11.1	450
2952	Mesoporous Ti_{0.5}Cr_{0.5}N Supported PdAg Nanoalloy as Highly Active and Stable Catalysts for the Electro-oxidation of Formic Acid and Methanol. ACS Nano, 2014, 8, 6106-6113.	7.3	87
2953	Î±-Fe₂O₃multi-shelled hollow microspheres for lithium ion battery anodes with superior capacity and charge retention. Energy and Environmental Science, 2014, 7, 632-637.	15.6	630
2954	Facile fabrication of hierarchical ZnCo₂O₄/NiO core/shell nanowire arrays with improved lithium-ion battery performance. Nanoscale, 2014, 6, 6563-6568.	2.8	73
2955	Rational design of a metalâ€“organic framework host for sulfur storage in fast, long-cycle Liâ€“S batteries. Energy and Environmental Science, 2014, 7, 2715.	15.6	434

#	Article	IF	Citations
2956	Tailored Surface Structure of LiFePO4/C Nanofibers by Phosphidation and Their Electrochemical Superiority for Lithium Rechargeable Batteries. ACS Applied Materials & Interfaces, 2014, 6, 9435-9441.	4.0	16
2957	Block Copolymer Directed Ordered Mesostructured TiNb₂O₇ Multimetallic Oxide Constructed of Nanocrystals as High Power Li-Ion Battery Anodes. Chemistry of Materials, 2014, 26, 3508-3514.	3.2	154
2958	Preparation and performance of polymer electrolyte based on poly(vinylidene fluoride)/polysulfone blend membrane via thermally induced phase separation process for lithium ion battery. Journal of Power Sources, 2014, 266, 401-413.	4.0	81
2959	Facile preparation of SnC2O4 nanowires for anode materials of a Li ion battery. Current Applied Physics, 2014, 14, 892-896.	1.1	7
2960	Metal-assisted chemical etching of silicon and nanotechnology applications. Nano Today, 2014, 9, 271-304.	6.2	369
2961	A novel and high-effective redox-mediated gel polymer electrolyte for supercapacitor. Electrochimica Acta, 2014, 135, 461-466.	2.6	92
2962	Cellulose/Polysulfonamide Composite Membrane as a High Performance Lithium-Ion Battery Separator. ACS Sustainable Chemistry and Engineering, 2014, 2, 194-199.	3.2	166
2963	Recent advances in zincâ€“air batteries. Chemical Society Reviews, 2014, 43, 5257-5275.	18.7	1,882
2964	Facile synthesis of Rhâ€“Pd alloy nanodendrites as highly active and durable electrocatalysts for oxygen reduction reaction. Nanoscale, 2014, 6, 7012-7018.	2.8	55
2965	NiCo₂O₄-based materials for electrochemical supercapacitors. Journal of Materials Chemistry A, 2014, 2, 14759-14772.	5.2	420
2966	Design of Carbon Black/Polypyrrole Composite Hollow Nanospheres and Performance Evaluation as Electrode Materials for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2014, 2, 1795-1801.	3.2	28
2967	Freestanding Triboelectricâ€Layerâ€Based Nanogenerators for Harvesting Energy from a Moving Object or Human Motion in Contact and Nonâ€contact Modes. Advanced Materials, 2014, 26, 2818-2824.	11.1	752
2968	Hybrid material design for energy applications: impact of graphene and carbon nanotubes. Pure and Applied Chemistry, 2014, 86, 39-52.	0.9	4
2969	Quantitative Nanoelectrical and Nanomechanical Properties of Nanostructured Hybrid Composites by PeakForce Tunneling Atomic Force Microscopy. Journal of Physical Chemistry C, 2014, 118, 1206-1212.	1.5	16
2970	Three-dimensional cross-linked carbon network wrapped with ordered polyaniline nanowires for high-performance pseudo-supercapacitors. Journal of Power Sources, 2014, 268, 451-458.	4.0	56
2971	A Lithium-Ion Sulfur Battery Based on a Carbon-Coated Lithium-Sulfide Cathode and an Electrodeposited Silicon-Based Anode. ACS Applied Materials & Interfaces, 2014, 6, 10924-10928.	4.0	124
2972	A general approach toward enhancement of pseudocapacitive performance of conducting polymers by redox-active electrolytes. Journal of Power Sources, 2014, 267, 521-526.	4.0	46
2973	One-step triple-phase interfacial synthesis of polyaniline-coated polypyrrole composite and its application as electrode materials for supercapacitors. Journal of Power Sources, 2014, 266, 347-352.	4.0	65

#	Article	IF	Citations
2974	Recent progress in nickel based materials for high performance pseudocapacitor electrodes. Journal of Power Sources, 2014, 267, 430-444.	4.0	180
2975	Low temperature synthesis of Fe2O3 and LiFeO2 as cathode materials for lithium-ion batteries. Electrochimica Acta, 2014, 136, 10-18.	2.6	29
2976	First-principles study of single atom adsorption on capped single-walled carbon nanotubes. International Journal of Hydrogen Energy, 2014, 39, 10161-10168.	3.8	10
2977	Capacity fading in lithium/sulfur batteries: A linear four-state model. Journal of Power Sources, 2014, 267, 648-654.	4.0	49
2978	High specific surface area Î±-Fe2O3 nanostructures as high performance electrode material for supercapacitors. Materials Letters, 2014, 131, 100-103.	1.3	83
2979	Preparation of uniform carbon nanoshell coated monodispersed iron oxide nanocrystals as an anode material for lithium-ion batteries. Electrochimica Acta, 2014, 136, 47-51.	2.6	8
2980	The facile synthesis of hierarchical NiCoO2 nanotubes comprised ultrathin nanosheets for supercapacitors. Journal of Power Sources, 2014, 267, 641-647.	4.0	72
2981	In-plane Vacancy-Induced Growth of Ultra-High Loading Cobalt Oxide-Graphene Composite for High-Performance Lithium-Ion Batteries. Electrochimica Acta, 2014, 136, 330-339.	2.6	12
2982	Fraction of the theoretical specific energy achieved on pack level for hypothetical battery chemistries. Journal of Power Sources, 2014, 267, 14-19.	4.0	21
2983	Activated carbon made from cow dung as electrode material for electrochemical double layer capacitor. Journal of Power Sources, 2014, 262, 224-231.	4.0	259
2984	Nanocasting of hierarchically porous Co3O4, Co, NiO, Ni, and Ag, monoliths: Impact of processing conditions on fidelity of replication. Microporous and Mesoporous Materials, 2014, 184, 141-150.	2.2	19
2985	Template-free synthesis of porousâ€“LiFePO4/C nanocomposite for high power lithium-ion batteries. Electrochimica Acta, 2014, 123, 1-6.	2.6	20
2986	Design and synthesis of porous nano-sized Sn@C/graphene electrode material with 3D carbon network for high-performance lithium-ion batteries. Journal of Alloys and Compounds, 2014, 604, 188-195.	2.8	47
2987	A Facile Route for Synthesis of LiFePO4/C Cathode Material with Nano-sized Primary Particles. Chinese Journal of Chemical Engineering, 2014, 22, 590-595.	1.7	9
2988	Synthesis of hollow core-shell ZnCo2O4 spheres and their formation mechanism. Ceramics International, 2014, 40, 1599-1603.	2.3	14
2989	Uniformly dispersed Sn-MnO@C nanocomposite derived from MnSn(OH)6 precursor as anode material for lithium-ion batteries. Electrochimica Acta, 2014, 121, 21-26.	2.6	25
2990	Synthesis and electrochemical properties of porous double-shelled Mn2O3 hollow microspheres as a superior anode material for lithium ion batteries. Electrochimica Acta, 2014, 132, 323-331.	2.6	39
2991	A Bottomâ€Up Approach to Build 3D Architectures from Nanosheets for Superior Lithium Storage. Advanced Functional Materials, 2014, 24, 125-130.	7.8	247

#	Article	IF	Citations
2992	Noncovalent Functionalization of Boron Nitride Nanotubes in Aqueous Media Opens Application Roads in Nanobiomedicine. Nanobiomedicine, 2014, 1, 7.	4.4	44
2993	Improving Reversible Capacities of High-Surface Lithium Insertion Materials Ã¢â‚¬â€œ The Case of Amorphous TiO2. Frontiers in Energy Research, 2014, 2, .	1.2	7
2994	Self-assembled V<SUB align="right">3O<SUB align="right">7/graphene oxide nanocomposites as cathode material for lithium-ion batteries. International Journal of Nanotechnology, 2014, 11, 808.	0.1	8
2996	Lithium Batteries: Status and Future. , 2014, , 121-162.		0
2997	How Nanotechnologies Can Enhance Sustainability in the Agrifood Sector. , 2014, , 74-93.		2
2998	Electrospinning Process: A Comprehensive Review and Update. , 2014, , 1-108.		0
2999	Effect of Synthesis Parameters on the Electrochemical Properties of Highâ€Surfaceâ€Area Mesoporous Titanium Oxide with Polypyrrole Nanowires in the Pores. ChemElectroChem, 2014, 1, 2153-2162.	1.7	3
3000	A novel silicon/carbon nanocomposite anode for high performance lithium-ion micro-battery. Journal of Physics: Conference Series, 2014, 557, 012059.	0.3	1
3002	Tackling Reversible Conversion Reaction Mechanism for Lithium Based Battery. Microscopy and Microanalysis, 2014, 20, 1618-1619.	0.2	4
3003	Synthesis of Nano-Sized SiOx/C Composite by a Drip Combustion in Fluidized Bed Reactor and Its Electrochemical Properties. Materials Research Society Symposia Proceedings, 2015, 1775, 13-18.	0.1	1
3004	Advanced Technologies for Supercapacitors. Electrochemical Energy Storage and Conversion, 2015, , 451-477.	0.0	0
3005	Introduction to Electrochemical Energy Storage and Conversion. Electrochemical Energy Storage and Conversion, 2015, , 3-32.	0.0	1
3006	Enhancing the electronic conductivity of Lignin-sourced, sub-micron carbon particles. , 2015, , .		5
3007	Surface Segregation of Fe in Ptâ€“Fe Alloy Nanoparticles: Its Precedence and Effect on the Orderedâ€Phase Evolution during Thermal Annealing. ChemCatChem, 2015, 7, 3655-3664.	1.8	25
3008	Vanadium Pentoxide Nanorods Anchored to and Wrapped with Graphene Nanosheets for Highâ€Power Asymmetric Supercapacitors. ChemElectroChem, 2015, 2, 1264-1269.	1.7	31
3009	Nanoporous Metal Papers for Scalable Hierarchical Electrode. Advanced Science, 2015, 2, 1500086.	5.6	26
3010	Reserving Interior Void Space for Volume Change Accommodation: An Example of Cableâ€Like MWNTs@SnO₂@C Composite for Superior Lithium and Sodium Storage. Advanced Science, 2015, 2, 1500097.	5.6	69
3011	Niobium Nitride Nb₄N₅ as a New Highâ€Performance Electrode Material for Supercapacitors. Advanced Science, 2015, 2, 1500126.	5.6	166

#	Article	IF	Citations
3013	A top-down approach for fabricating free-standing bio-carbon supercapacitor electrodes with a hierarchical structure. Scientific Reports, 2015, 5, 14155.	1.6	45
3014	Li-ion diffusion in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Li</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mrow><mml:mathvariant="normal"><mml:mi>O</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LiTi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mrow><mml:mathvariant="normal"><mml:mi>O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	1.6	55
3015	Liâ€ion batteries: basics, progress, and challenges. Energy Science and Engineering, 2015, 3, 385-418.	1.9	736
3016	Paving the way to nanoionics: atomic origin of barriers for ionic transport through interfaces. Scientific Reports, 2015, 5, 17229.	1.6	35
3017	Hierarchical One-Dimensional Ammonium Nickel Phosphate Microrods for High-Performance Pseudocapacitors. Scientific Reports, 2015, 5, 17629.	1.6	71
3018	Breathing silicon anodes for durable high-power operations. Scientific Reports, 2015, 5, 14433.	1.6	51
3019	Investigation of reactions between trace gases and functional CuO nanospheres and octahedrons using NEXAFS-TXM imaging. Scientific Reports, 2015, 5, 17729.	1.6	29
3020	3D hierarchical porous graphene aerogel with tunable meso-pores on graphene nanosheets for high-performance energy storage. Scientific Reports, 2015, 5, 14229.	1.6	139
3023	Mitigate I/O access pattern divergence with heterogeneous architecture in HDFS. , 2015, , .		2
3026	Synthesis of coaxial CoFe2O4 - K0.5Na0.5NbO3 nanotubes by sol-gel technique using inexpensive templates. AIP Conference Proceedings, 2015, , .	0.3	2
3028	Porous VOxNy nanoribbons supported on CNTs as efficient and stable non-noble electrocatalysts for the oxygen reduction reaction. Scientific Reports, 2015, 5, 17385.	1.6	21
3029	Strategy for improved frequency response of electric double-layer capacitors. Applied Physics Letters, 2015, 107, .	1.5	4
3030	Improving battery safety by reducing the formation of Li dendrites with the use of amorphous silicon polymer anodes. Scientific Reports, 2015, 5, 13219.	1.6	14
3031	Unique Urchin-like Ca2Ge7O16 Hierarchical Hollow Microspheres as Anode Material for the Lithium Ion Battery. Scientific Reports, 2015, 5, 11326.	1.6	21
3032	Progress toward Understanding Lithiation Mechanisms of TiO2 Via In-situ TEM. Microscopy and Microanalysis, 2015, 21, 1367-1368.	0.2	1
3033	Layer-by-layer functionalized nanotube arrays: A versatile microfluidic platform for biodetection. Microsystems and Nanoengineering, 2015, 1, .	3.4	16
3034	Hierarchical Co-based Porous Layered Double Hydroxide Arrays Derived via Alkali Etching for High-performance Supercapacitors. Scientific Reports, 2015, 5, 13082.	1.6	48
3035	Enhanced lithium ion storage in nanoimprinted carbon. Applied Physics Letters, 2015, 107, 043904.	1.5	1

#	Article	IF	Citations
3036	Carbon nanotube web-based current collectors for high-performance lithium ion batteries. Materials Today Communications, 2015, 4, 149-155.	0.9	11
3038	Enabling Prominent Highâ€Rate and Cycle Performances in One Lithiumâ€“Sulfur Battery: Designing Permselective Gateways for Li⁺ Transportation in Holeyâ€CNT/S Cathodes. Advanced Materials, 2015, 27, 3774-3781.	11.1	92
3039	Design Considerations for Unconventional Electrochemical Energy Storage Architectures. Advanced Energy Materials, 2015, 5, 1402115.	10.2	271
3040	Programmable Nanocarbonâ€Based Architectures for Flexible Supercapacitors. Advanced Energy Materials, 2015, 5, 1500677.	10.2	87
3041	Flexible /PET/batio₃/ layerâ€“layer composite film with enhanced dielectric properties fabricated by highly loaded /batio₃/ coating with acrylic resin as binder. Journal of Applied Polymer Science, 2015, 132, .	1.3	3
3042	New Insights into Improving Rate Performance of Lithiumâ€Rich Cathode Material. Advanced Materials, 2015, 27, 3915-3920.	11.1	185
3043	Sulfur Atoms Bridging Fewâ€Layered MoS₂ with Sâ€Doped Graphene Enable Highly Robust Anode for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1501106.	10.2	165
3044	Green Templateâ€Free Synthesis of Hierarchical Shuttleâ€Shaped Mesoporous ZnFe₂O₄ Microrods with Enhanced Lithium Storage for Advanced Liâ€Ion Batteries. Chemistry - A European Journal, 2015, 21, 13012-13019.	1.7	55
3045	Hierarchical Transitionâ€Metal Dichalcogenide Nanosheets for Enhanced Electrocatalytic Hydrogen Evolution. Advanced Materials, 2015, 27, 7426-7431.	11.1	123
3047	Facile Synthesis of Hexagonal <scp>NiCo₂O₄</scp> Nanoplates as Highâ€Performance Anode Material for Liâ€Ion Batteries. Bulletin of the Korean Chemical Society, 2015, 36, 2330-2336.	1.0	18
3048	Mesoporous Carbon Nanofibers Embedded with MoS₂ Nanocrystals for Extraordinary Liâ€Ion Storage. Chemistry - A European Journal, 2015, 21, 18248-18257.	1.7	25
3049	Disproportionated Tin Oxide and Its Nanocomposite for Highâ€Performance Lithiumâ€Ion Battery Anodes. Energy Technology, 2015, 3, 658-665.	1.8	8
3050	Physicochemical Interaction of ZnO Fine Particles with 5â€Monoâ€(4â€carboxyphenyl)â€10,15,20â€Triphenylporphyrin. Journal of the Chinese Chemical Society, 2015, 62, 915-924.	0.8	3
3051	On the Li Intercalation Kinetics in Treeâ€like WO₃ Electrodes and Their Implementation in Fast Switchable Electrochromic Devices. Advanced Optical Materials, 2015, 3, 1614-1622.	3.6	30
3052	Sandwichâ€Structured Grapheneâ€“Nickel Silicateâ€“Nickel Ternary Composites as Superior Anode Materials for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2015, 21, 9014-9017.	1.7	32
3053	Twin Polymerizationâ€”a New Principle for Hybrid Material Synthesis. Macromolecular Rapid Communications, 2015, 36, 1623-1639.	2.0	44
3054	A Facile Method for Synthesis of Porous NiCo₂O₄Nanorods as a High-Performance Anode Material for Li-Ion Batteries. Particle and Particle Systems Characterization, 2015, 32, 1012-1019.	1.2	63
3055	Synthesis of Manganese Oxide Microspheres by Ultrasonic Spray Pyrolysis and Their Application as Supercapacitors. Particle and Particle Systems Characterization, 2015, 32, 899-906.	1.2	15

#	Article	IF	Citations
3056	Hierarchical Tubular Structures Composed of Mnâ€Based Mixed Metal Oxide Nanoflakes with Enhanced Electrochemical Properties. Advanced Functional Materials, 2015, 25, 5184-5189.	7.8	124
3057	Porous Si Nanowires from Cheap Metallurgical Silicon Stabilized by a Surface Oxide Layer for Lithium Ion Batteries. Advanced Functional Materials, 2015, 25, 6701-6709.	7.8	173
3058	Grapheneâ€Based Materials for Lithiumâ€Ion Hybrid Supercapacitors. Advanced Materials, 2015, 27, 5296-5308.	11.1	424
3059	Solar Rechargeable Batteries Based on Leadâ€“Organohalide Electrolyte. Advanced Energy Materials, 2015, 5, 1501418.	10.2	35
3060	Morphology and Phase Evolution of CoAl Layered Double Hydroxides in an Alkaline Environment with Enhanced Pseudocapacitive Performance. ChemElectroChem, 2015, 2, 679-683.	1.7	16
3061	TiO₂ Nanomaterials as Anode Materials for Lithiumâ€Ion Rechargeable Batteries. Energy Technology, 2015, 3, 801-814.	1.8	79
3062	Nonâ€Covalent Functionalization of Graphene with Bisphenol A for Highâ€Performance Supercapacitors. Chinese Journal of Chemistry, 2015, 33, 199-206.	2.6	38
3063	The Hydric Effect in Inorganic Nanomaterials for Nanoelectronics and Energy Applications. Advanced Materials, 2015, 27, 3850-3867.	11.1	55
3064	Hierarchical Carbon Framework Wrapped Na₃V₂(PO₄)₃ as a Superior Highâ€Rate and Extended Lifespan Cathode for Sodiumâ€Ion Batteries. Advanced Materials, 2015, 27, 5895-5900.	11.1	448
3065	Direct Observation of Liâ€Ion Transport in Electrodes under Nonequilibrium Conditions Using Neutron Depth Profiling. Advanced Energy Materials, 2015, 5, 1500498.	10.2	76
3066	Structural Engineering of Electrocatalysts for the Hydrogen Evolution Reaction: Order or Disorder?. ChemCatChem, 2015, 7, 2568-2580.	1.8	144
3067	Oneâ€Pot Synthesis of Carbonâ€Coated Nanostructured Iron Oxide on Fewâ€Layer Graphene for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2015, 21, 16154-16161.	1.7	12
3068	Nanotubular Heterostructure of Tin Dioxide/Titanium Dioxide as a Binderâ€Free Anode in Lithiumâ€Ion Batteries. ChemSusChem, 2015, 8, 2363-2371.	3.6	25
3069	Synthesis, Spectroscopic Characterization, Crystal Structures, Energetics, and Thermal Stabilities of Li[AlX₄] (X = Cl, Br): Investigation and Performance of Their Electrolyte Solutions. European Journal of Inorganic Chemistry, 2015, 2015, 3128-3138.	1.0	5
3070	A Hierarchical MoO₂/Au/MnO₂ HeteroÂstructure with Enhanced Electrochemical Performance for Application as Supercapacitor. European Journal of Inorganic Chemistry, 2015, 2015, 3764-3768.	1.0	10
3071	Bio-nanotextured high aspect ratio micropillar arrays for high surface area energy storage devices. Journal of Physics: Conference Series, 2015, 660, 012046.	0.3	1
3072	Hierarchical Porous ZnMn₂O₄ Hollow Nanotubes with Enhanced Lithium Storage toward Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2015, 21, 10771-10777.	1.7	86
3073	Facile Aluminum Reduction Synthesis of Blue TiO₂ with Oxygen Deficiency for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2015, 21, 18309-18315.	1.7	32

#	Article	IF	Citations
3074	Allâ€Solidâ€State Lithiumâ€Ion Batteries with Grafted Ceramic Nanoparticles Dispersed in Solid Polymer Electrolytes. ChemSusChem, 2015, 8, 3039-3043.	3.6	121
3075	Environmental life cycle assessments of emerging anode materials for Liâ€ion batteriesâ€metal oxide <scp>NP</scp>s. Environmental Progress and Sustainable Energy, 2015, 34, 1740-1747.	1.3	23
3076	Selfâ€Assembled Binary Mixtures of Partially Etched Nanowires. Particle and Particle Systems Characterization, 2015, 32, 347-354.	1.2	0
3077	Electrochemically Nanostructured Polyvinylferrocene/Polypyrrole Hybrids with Synergy for Energy Storage. Advanced Functional Materials, 2015, 25, 4803-4813.	7.8	64
3078	Facile Singleâ€Precursor Synthesis and Surface Modification of Hafnium Oxide Nanoparticles for Nanocomposite Î³â€Ray Scintillators. Advanced Functional Materials, 2015, 25, 4607-4616.	7.8	70
3079	A Flexible Fiberâ€Based Supercapacitorâ€“Triboelectricâ€Nanogenerator Power System for Wearable Electronics. Advanced Materials, 2015, 27, 4830-4836.	11.1	322
3080	Morphologically Controlled Bioinspired Dopamineâ€Polypyrrole Nanostructures with Tunable Electrical Properties. Advanced Electronic Materials, 2015, 1, 1500205.	2.6	48
3081	Enhanced Cycling Stability of Lithiumâ€Ion Batteries Using Grapheneâ€Wrapped Fe₃O₄â€Graphene Nanoribbons as Anode Materials. Advanced Energy Materials, 2015, 5, 1500171.	10.2	133
3082	Fabrication of Highâ€Power Liâ€Ion Hybrid Supercapacitors by Enhancing the Exterior Surface Charge Storage. Advanced Energy Materials, 2015, 5, 1500550.	10.2	203
3083	Recent Progress in Flexible Electrochemical Capacitors: Electrode Materials, Device Configuration, and Functions. Advanced Energy Materials, 2015, 5, 1500959.	10.2	208
3084	Formation of Yolkâ€Shelled Niâ€“Co Mixed Oxide Nanoprisms with Enhanced Electrochemical Performance for Hybrid Supercapacitors and Lithium Ion Batteries. Advanced Energy Materials, 2015, 5, 1500981.	10.2	286
3085	Vanadium Pentoxideâ€Based Cathode Materials for Lithiumâ€Ion Batteries: Morphology Control, Carbon Hybridization, and Cation Doping. Particle and Particle Systems Characterization, 2015, 32, 276-294.	1.2	69
3086	Full Protection for Graphene-Incorporated Micro-/Nanocomposites Containing Ultra-small Active Nanoparticles: the Best Li-Storage Properties. Particle and Particle Systems Characterization, 2015, 32, 1020-1027.	1.2	41
3088	First-Principles Investigation of Adsorption and Diffusion of Ions on Pristine, Defective and B-doped Graphene. Materials, 2015, 8, 6163-6178.	1.3	42
3089	Simulation of the Impact of Si Shell Thickness on the Performance of Si-Coated Vertically Aligned Carbon Nanofiber as Li-Ion Battery Anode. Nanomaterials, 2015, 5, 2268-2278.	1.9	4
3090	High-Performance Supercapacitors Based on Ionic Liquids and a Graphene Nanostructure. , 0, , .		8
3091	Highly Conductive Aromatic Functionalized Multi-Walled Carbon Nanotube for Inkjet Printable High Performance Supercapacitor Electrodes. PLoS ONE, 2015, 10, e0131475.	1.1	48
3092	Development of electrostatic supercapacitors by atomic layer deposition on nanoporous anodic aluminum oxides for energy harvesting applications. Frontiers in Physics, 2015, 3, .	1.0	10

#	Article	IF	Citations
3093	Mesoporous Transition Metal Oxides for Supercapacitors. Nanomaterials, 2015, 5, 1667-1689.	1.9	310
3094	Fabrication of Cathode Materials Based on Limn2o4/Cnt and Lini0.5mn1.5o4/Cnt Nanocomposites for Lithium â€“ Ion Batteries Application. Materials Research, 2015, 18, 1044-1052.	0.6	6
3095	Investigation of Supported Pd-Based Electrocatalysts for the Oxygen Reduction Reaction: Performance, Durability and Methanol Tolerance. Materials, 2015, 8, 7997-8008.	1.3	30
3096	Electrodeposition of Nanostructure Materials. , 0, , .		7
3097	Characterization of Trapped Charge in Ge/LixGe Core/Shell Structure during Lithiation using Off-axis Electron Holography. Microscopy and Microanalysis, 2015, 21, 1397-1398.	0.2	0
3099	Surface Coating Effect on Si Nanowires Anodes for Lithium Ion Batteries. Microscopy and Microanalysis, 2015, 21, 321-322.	0.2	0
3101	Transformers: the changing phases of low-dimensional vanadium oxide bronzes. Chemical Communications, 2015, 51, 5181-5198.	2.2	75
3102	Nanoscale, conformal polysiloxane thin film electrolytes for three-dimensional battery architectures. Materials Horizons, 2015, 2, 309-314.	6.4	34
3103	Nanotubular structured Si-based multicomponent anodes for high-performance lithium-ion batteries with controllable pore size via coaxial electro-spinning. Nanoscale, 2015, 7, 6126-6135.	2.8	40
3104	A hybrid aerogel of Coâ€“Al layered double hydroxide/graphene with three-dimensional porous structure as a novel electrode material for supercapacitors. RSC Advances, 2015, 5, 26017-26026.	1.7	30
3105	Use of a tin antimony alloy-filled porous carbon nanofiber composite as an anode in sodium-ion batteries. RSC Advances, 2015, 5, 30793-30800.	1.7	70
3106	Hierarchical donut-shaped LiMn₂O₄ as an advanced cathode material for lithium-ion batteries with excellent rate capability and long cycle life. Journal of Materials Chemistry A, 2015, 3, 8165-8170.	5.2	32
3107	Novel polyvinylimidazolium nanoparticles as high-performance binders for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 7229-7234.	5.2	39
3108	Enhancing sodium-ion battery performance with interlayer-expanded MoS2â€“PEO nanocomposites. Nano Energy, 2015, 15, 453-461.	8.2	269
3109	Facile electrochemical synthesis, using microemulsions with ionic liquid, of highly mesoporous CoPt nanorods with enhanced electrocatalytic performance for clean energy. International Journal of Hydrogen Energy, 2015, 40, 8062-8070.	3.8	25
3110	Engineering of MnO2-based nanocomposites for high-performance supercapacitors. Progress in Materials Science, 2015, 74, 51-124.	16.0	449
3111	Effects of particle shape and concurrent plasticity on stress generation during lithiation in particulate Li-ion battery electrodes. Mechanics of Materials, 2015, 91, 372-381.	1.7	28
3112	Facile synthesis of Pd nanostructures in hexagonal mesophases as a promising electrocatalyst for ethanol oxidation. Journal of Materials Chemistry A, 2015, 3, 9517-9527.	5.2	55

#	Article	IF	Citations
3113	Electrochemical Hierarchical Composites. , 2015, , 239-286.		1
3114	Capacitive effects of nitrogen doping on cellulose-derived carbon nanofibers. Materials Chemistry and Physics, 2015, 160, 59-65.	2.0	26
3115	High charge-capacity polymer electrodes comprising alkali lignin from the Kraft process. Journal of Materials Chemistry A, 2015, 3, 11330-11339.	5.2	47
3116	Synthesis of 3D structured graphene as a high performance catalyst support for methanol electro-oxidation. Nanoscale, 2015, 7, 10896-10902.	2.8	25
3117	At the polymer electrolyte interfaces: the role of the polymer host in interphase layer formation in Li-batteries. Journal of Materials Chemistry A, 2015, 3, 13994-14000.	5.2	101
3118	High-performance Si-based 3D Cu nanostructured electrode assembly for rechargeable lithium batteries. Journal of Materials Chemistry A, 2015, 3, 11912-11919.	5.2	36
3119	Reduced graphene oxide/carbon double-coated 3-D porous ZnO aggregates as high-performance Li-ion anode materials. Nanoscale Research Letters, 2015, 10, 204.	3.1	32
3120	Thermoelectric properties of Na-doped Zintl compound: Mg3â^'Na Sb2. Acta Materialia, 2015, 93, 187-193.	3.8	131
3121	A new method to prepare vanadium oxide nano-urchins as a cathode for lithium ion batteries. RSC Advances, 2015, 5, 47522-47528.	1.7	21
3122	Electrospun porous vanadium pentoxide nanotubes as a high-performance cathode material for lithium-ion batteries. Electrochimica Acta, 2015, 173, 131-138.	2.6	43
3123	Layered double hydroxide nanoparticles for biomedical applications: Current status and recent prospects. Applied Clay Science, 2015, 112-113, 100-116.	2.6	202
3124	Fabrication of high power LiNi0.5Mn1.5O4 battery cathodes by nanostructuring of electrode materials. RSC Advances, 2015, 5, 50433-50439.	1.7	12
3125	Enhanced Electrochemical Performance of Lithium Iron(II) Phosphate Modified Cooperatively via Chemically Reduced Graphene Oxide and Polyaniline. Electrochimica Acta, 2015, 173, 310-315.	2.6	27
3126	Simplistic construction of cadmium sulfoselenide thin films via a hybrid chemical process for enhanced photoelectrochemical performance. RSC Advances, 2015, 5, 40283-40296.	1.7	26
3127	Ionic Liquid Electrolytes with Various Constituent Ions for Graphene-based Supercapacitors. Electrochimica Acta, 2015, 161, 371-377.	2.6	65
3128	Synthesis of graphene@Fe₃O₄@C coreâ€“shell nanosheets for high-performance lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 7036-7043.	5.2	93
3129	Amorphous GeO_x-Coated Reduced Graphene Oxide Balls with Sandwich Structure for Long-Life Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 13952-13959.	4.0	63
3130	Phase stability frustration on ultra-nanosized anatase TiO2. Scientific Reports, 2015, 5, 10928.	1.6	39

#	Article	IF	Citations
3131	Mitigating mechanical failure of crystalline silicon electrodes for lithium batteries by morphological design. Physical Chemistry Chemical Physics, 2015, 17, 17718-17728.	1.3	25
3132	Monolithic organic/inorganic ternary nanohybrids toward electron transfer cascade for enhanced visible-light photocatalysis. RSC Advances, 2015, 5, 23174-23180.	1.7	6
3133	Self-assembly formation of NiCo₂O₄ superstructures with porous architectures for electrochemical capacitors. RSC Advances, 2015, 5, 53259-53266.	1.7	17
3134	High Energy Density Asymmetric Supercapacitors From Mesoporous NiCo2S4 Nanosheets. Electrochimica Acta, 2015, 174, 238-245.	2.6	247
3135	Glassy Metal Alloy Nanofiber Anodes Employing Graphene Wrapping Layer: Toward Ultralong-Cycle-Life Lithium-Ion Batteries. ACS Nano, 2015, 9, 6717-6727.	7.3	55
3136	Structural design of graphene for use in electrochemical energy storage devices. Chemical Society Reviews, 2015, 44, 6230-6257.	18.7	389
3137	Carbon-coated MoO2 dispersed in three-dimensional graphene aerogel for lithium-ion battery. Electrochimica Acta, 2015, 174, 8-14.	2.6	57
3138	Sulfur covalently bonded graphene with large capacity and high rate for high-performance sodium-ion batteries anodes. Nano Energy, 2015, 15, 746-754.	8.2	164
3139	Li⁺ intercalation in isostructural Li₂VO₃ and Li₂VO₂F with O^{2â˜'} and mixed O^{2â˜'}/F^{â˜'} anions. Physical Chemistry Chemical Physics, 2015, 17, 17288-17295.	1.3	67
3140	Synthesis of exfoliated titanium dioxide nanosheets/nickelâ€“aluminum layered double hydroxide as a novel electrode for supercapacitors. RSC Advances, 2015, 5, 49204-49210.	1.7	10
3141	Multilayered paper-like electrodes composed of alternating stacked mesoporous Mo₂N nanobelts and reduced graphene oxide for flexible all-solid-state supercapacitors. Journal of Materials Chemistry A, 2015, 3, 14617-14624.	5.2	75
3142	Highly nanoporous carbons by single-step organic salt carbonization for high-performance supercapacitors. Journal of Applied Electrochemistry, 2015, 45, 839-848.	1.5	5
3143	Boronâ€Doped, Carbonâ€Coated SnO₂/Graphene Nanosheets for Enhanced Lithium Storage. Chemistry - A European Journal, 2015, 21, 5617-5622.	1.7	28
3145	Advances in Lithium-Ion Battery Technology Based on Functionalized Carbon Nanotubes for Electrochemical Energy Storage. , 2015, , 447-478.		1
3146	Hierarchically structured nanofelt-like Î²-NiOOH grown on nickel foam as electrode for high performance pseudocapacitor. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	5
3147	Overview on the synthesis and applications of cadmium hydroxide nanomaterials. Journal of the Iranian Chemical Society, 2015, 12, 1829-1840.	1.2	5
3148	Facile method to prepare CdS nanostructure based on the CdTe films. Applied Surface Science, 2015, 349, 740-745.	3.1	14
3149	High specific capacity retention of graphene/silicon nanosized sandwich structure fabricated by continuous electron beam evaporation as anode for lithium-ion batteries. Electrochimica Acta, 2015, 165, 166-172.	2.6	34

#	Article	IF	Citations
3150	Fabrication of tungsten decorated titania nanotube arrays as electrode materials for supercapacitor applications. International Journal of Hydrogen Energy, 2015, 40, 8769-8777.	3.8	20
3151	In situ synchrotron wide-angle X-ray scattering study on rapid lithiation of graphite anode via direct contact method for Li-ion capacitors. Journal of Power Sources, 2015, 283, 68-73.	4.0	41
3152	Electrochemical properties of the ternary alloy Li 5 AlSi 2 synthesized by reacting LiH, Al and Si as an anodic material for lithium-ion batteries. Journal of Power Sources, 2015, 283, 54-60.	4.0	13
3153	Titanium dioxide encapsulated in nitrogen-doped carbon enhances the activity and durability of platinum catalyst for Methanol electro-oxidation reaction. Journal of Power Sources, 2015, 292, 78-86.	4.0	24
3154	Manganese oxide based Hybrid nanofibers for Supercapacitors. Materials Letters, 2015, 148, 142-146.	1.3	18
3155	Composites of MnO2 nanocrystals and partially graphitized hierarchically porous carbon spheres with improved rate capability for high-performance supercapacitors. Carbon, 2015, 93, 258-265.	5.4	56
3156	Research Background and Motivation. Springer Theses, 2015, , 1-20.	0.0	0
3157	High electrochemical performance and lithiationâ€“delithiation phase evolution in CuO thin films for Li-ion storage. Journal of Materials Chemistry A, 2015, 3, 14202-14209.	5.2	54
3158	Cobalt sulfide nanoparticles decorated on TiO₂ nanotubes via thermal vapor sulfurization of conformal TiO₂-coated Co(CO₃)_{0.5}(OH)Â·0.11H₂O coreâ€“shell nanowires for energy storage applications. RSC Advances, 2015, 5, 48647-48653.	1.7	15
3159	Investigation of Cr₂O₃as Anode Materials for Lithium-Ion Batteries by Electrochemical Impedance Spectroscopy. Journal of the Electrochemical Society, 2015, 162, A1156-A1162.	1.3	25
3160	Tin microparticles for a lithium ion battery anode with enhanced cycling stability and efficiency derived from Se-doping. Journal of Materials Chemistry A, 2015, 3, 13500-13506.	5.2	42
3161	Nanotechnology Advancements on Carbon Nanotube/Polypyrrole Composite Electrodes for Supercapacitors. , 2015, , 479-510.		27
3162	Bio-ingredient assisted formation of porous TiO₂ for Li-ion battery electrodes. RSC Advances, 2015, 5, 34949-34955.	1.7	7
3163	Template synthesis of 1D hierarchical hollow Co3O4 nanotubes as high performance supercapacitor materials. Journal of Alloys and Compounds, 2015, 644, 721-728.	2.8	68
3164	One-step hydrothermal synthesis of three-dimensional porous graphene aerogels/sulfur nanocrystals for lithiumâ€“sulfur batteries. Journal of Alloys and Compounds, 2015, 645, 509-516.	2.8	49
3165	Biomimetic synthesis of novel calcium carbonate heterogeneous dendrites. New Journal of Chemistry, 2015, 39, 5309-5315.	1.4	7
3166	Defects, impurities, and transport phenomenon in oxide crystals. , 2015, , 209-229.		1
3167	Precursor-controlled and template-free synthesis of nitrogen-doped carbon nanoparticles for supercapacitors. RSC Advances, 2015, 5, 50063-50069.	1.7	27

#	Article	IF	Citations
3168	High-performance transition metalâ€“doped Pt ₃ Ni octahedra for oxygen reduction reaction. Science, 2015, 348, 1230-1234.	6.0	1,623
3169	High Performance Supercapacitor Electrode Materials Based on Activated Carbon and Conducting Polypyrrole. Key Engineering Materials, 0, 645-646, 1150-1155.	0.4	1
3170	Synthesis of nanocrystalline LiCoO₂powders by polymeric combustion process: an investigation on the effect of different carboxylic acids as fuel. International Journal of Higher Education Management, 2015, 1, 105-112.	1.0	5
3171	The influence of preparation conditions on nanoporous nickel-based supercapacitor electrode material obtained by anodisation. Materials Research Innovations, 2015, 19, S2-52-S2-57.	1.0	0
3172	Graphitic Carbon Nitride/Graphene Hybrids as New Active Materials for Energy Conversion and Storage. ChemNanoMat, 2015, 1, 298-318.	1.5	117
3173	Pseudocapacitance of Î±-CoMoO4 nanoflakes in non-aqueous electrolyte and its bi-functional electro catalytic activity for methanol oxidation. International Journal of Hydrogen Energy, 2015, 40, 16297-16305.	3.8	37
3174	On-chip supercapacitors with ultrahigh volumetric performance based on electrochemically co-deposited CuO/polypyrrole nanosheet arrays. Nanotechnology, 2015, 26, 425402.	1.3	30
3175	Facile synthesis of free-standing Fe₂O₃/carbon nanotube composite films as high-performance anodes for lithium-ion batteries. RSC Advances, 2015, 5, 106298-106306.	1.7	18
3176	Impact of different nanostructures of a PEDOT decorated 3D multilayered graphene foam by chemical methods on supercapacitive performance. RSC Advances, 2015, 5, 107864-107871.	1.7	17
3177	Three-Dimensional Nanoporous Graphene-Carbon Nanotube Hybrid Frameworks for Confinement of SnS₂ Nanosheets: Flexible and Binder-Free Papers with Highly Reversible Lithium Storage. ACS Applied Materials & Interfaces, 2015, 7, 27823-27830.	4.0	68
3178	Controlled electrosynthesis of polyaniline on branched surface of reduced graphene oxide. Russian Journal of Electrochemistry, 2015, 51, 976-985.	0.3	3
3179	EFFECT OF ELECTRODE DESIGN ON ELECTROCHEMICAL PERFORMANCE OF ALL-SOLID-STATE LITHIUM SECONDARY BATTERIES USING LITHIUM-SILICIDE ANODES. Electrochimica Acta, 2015, 185, 242-249.	2.6	9
3180	Controlled-fabrication, morphology formation mechanism of TiO2-B nanobelts with NiO-doping. Materials and Design, 2015, 88, 713-719.	3.3	9
3181	Self-supported yolkâ€“shell nanocolloids towards high capacitance and excellent cycling performance. Nano Energy, 2015, 18, 273-282.	8.2	53
3182	Interconnected mesoporous NiO sheets deposited onto TiO₂nanosheet arrays as binder-free anode materials with enhanced performance for lithium ion batteries. RSC Advances, 2015, 5, 101247-101256.	1.7	15
3183	Preparation and application of hollow ZnFe2O4@PANI hybrids as high performance anode materials for lithium-ion batteries. RSC Advances, 2015, 5, 107247-107253.	1.7	31
3184	Ultrafast high-volumetric sodium storage of folded-graphene electrodes through surface-induced redox reactions. Energy Storage Materials, 2015, 1, 112-118.	9.5	83
3185	Microwave-assisted synthesis of Co3O4â€“graphene sheet-on-sheet nanocomposites and electrochemical performances for lithium ion batteries. Materials Research Bulletin, 2015, 72, 43-49.	2.7	30

#	Article	IF	Citations
3186	High-performance supercapacitor based on three-dimensional MoS2/graphene aerogel composites. Composites Science and Technology, 2015, 121, 123-128.	3.8	122
3187	A chemically stable PVD multilayer encapsulation for lithium microbatteries. Journal Physics D: Applied Physics, 2015, 48, 395306.	1.3	8
3188	The formation of nanostructured surfaces by electrochemical techniques: a range of emerging surface finishes â€“ Part 1: achieving nanostructured surfaces by electrochemical techniques. Transactions of the Institute of Metal Finishing, 2015, 93, 209-224.	0.6	13
3189	Influence of graphene microstructures on electrochemical performance for supercapacitors. Progress in Natural Science: Materials International, 2015, 25, 379-385.	1.8	329
3190	The synthesizing of porous anode materials processed via rapid solidification of Si-Sn-Al alloys for Li-ion batteries. Journal of the Korean Physical Society, 2015, 67, 1986-1991.	0.3	2
3191	High surface area porous carbon for ultracapacitor application by pyrolysis of polystyrene containing pendant carboxylic acid groups prepared via click chemistry. Materials Today Communications, 2015, 4, 166-175.	0.9	14
3192	Novel hybrid Si film/carbon nanofibers as anode materials in lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 1947-1952.	5.2	28
3193	N-doped carbon foam based three-dimensional electrode architectures and asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 2853-2860.	5.2	70
3194	Sulfur-doped graphitic carbon nitride decorated with graphene quantum dots for an efficient metal-free electrocatalyst. Journal of Materials Chemistry A, 2015, 3, 1841-1846.	5.2	229
3195	Synthesis of mesoporous NiCo2O4 fibers and their electrocatalytic activity on direct oxidation of ethanol in alkaline media. Electrochimica Acta, 2015, 154, 70-76.	2.6	75
3196	Effects of Graphene Oxide Function Groups on SnO2/Graphene Nanocomposites for Lithium Storage Application. Electrochimica Acta, 2015, 154, 338-344.	2.6	34
3197	Bismuth oxyiodide nanosheets: a novel high-energy anode material for lithium-ion batteries. Chemical Communications, 2015, 51, 2798-2801.	2.2	50
3198	Edgeâ€Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dyeâ€Sensitized Solar Cells and Lithium Ion Batteries. Advanced Functional Materials, 2015, 25, 1170-1179.	7.8	174
3199	Low cost and environmentally benign crack-blocking structures for long life and high power Si electrodes in lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 2036-2042.	5.2	53
3200	Conductance measurements of individual polypyrrole nanobelts. Nanoscale, 2015, 7, 2301-2305.	2.8	3
3201	Effect of thermal treatment on the properties of electrospun LiFePO4â€“carbon nanofiber composite cathode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2015, 627, 91-100.	2.8	35
3202	Wetting in nanopores of cylindrical anodic aluminum oxide templates: Production of gradient polymer nanorod arrays on large-area curved surfaces. European Polymer Journal, 2015, 63, 141-148.	2.6	13
3203	Exploration of vanadium benzenedicarboxylate as a cathode for rechargeable lithium batteries. Journal of Power Sources, 2015, 278, 265-273.	4.0	63

#	Article	IF	Citations
3204	Preparation and characterization of Fe3O4 magnetic nanoparticles modified by perfluoropolyether carboxylic acid surfactant. Materials Letters, 2015, 143, 38-40.	1.3	42
3205	Insight into Lithium Diffusion in Conversion-Type Iron Oxide Negative Electrode. Journal of Physical Chemistry C, 2015, 119, 919-925.	1.5	29
3206	Importance of nanostructure for reversible Li-insertion into octahedral sites of LiNi0.5Mn1.5O4 and its application towards aqueous Li-ion chemistry. Journal of Power Sources, 2015, 280, 240-245.	4.0	15
3207	In-situ synthesized mesoporous TiO2-B/anatase microparticles: Improved anodes for lithium ion batteries. Chinese Journal of Chemical Engineering, 2015, 23, 583-589.	1.7	17
3208	Hierarchical self-assembled structures based on nitrogen-doped carbon nanotubes as advanced negative electrodes for Li-ion batteries and 3D microbatteries. Journal of Power Sources, 2015, 279, 581-592.	4.0	41
3209	Towards superior volumetric performance: design and preparation of novel carbon materials for energy storage. Energy and Environmental Science, 2015, 8, 1390-1403.	15.6	364
3210	Tin dioxide dodecahedral nanocrystals anchored on graphene sheets with enhanced electrochemical performance for lithium-ion batteries. Electrochimica Acta, 2015, 159, 46-51.	2.6	28
3211	Ultrathin supercapacitor electrodes with high volumetric capacitance and stability using direct covalent-bonding between pseudocapacitive nanoparticles and conducting materials. Nano Energy, 2015, 12, 612-625.	8.2	48
3212	Self-assembled graphene/sulfur composite as high current discharge cathode for lithium-sulfur batteries. Electrochimica Acta, 2015, 163, 24-31.	2.6	36
3213	A facile synthesis of copper sulfides composite with lithium-storage properties. Journal of Power Sources, 2015, 281, 185-191.	4.0	51
3214	Hollow nanospheres of mesoporous Co 9 S 8 as a high-capacity and long-life anode for advanced lithium ion batteries. Nano Energy, 2015, 12, 528-537.	8.2	303
3215	Interfacial study of the role of SiO2 on Si anodes using electrochemical quartz crystal microbalance. Journal of Power Sources, 2015, 282, 639-644.	4.0	30
3216	Preparation of Ce-doped (Y,Gd)3Al5O12 nanoceramics by sintering and crystallization of glass microspheres. Materials Research Bulletin, 2015, 66, 45-50.	2.7	14
3217	Design and fabrication of energetic superlattice like-PTFE/Al with superior performance and application in functional micro-initiator. Nano Energy, 2015, 12, 597-605.	8.2	83
3218	Chemical vapor deposition prepared bi-morphological carbon-coated Fe3O4 composites as anode materials for lithium-ion batteries. Journal of Power Sources, 2015, 282, 257-264.	4.0	65
3219	Sprayable, paintable layer-by-layer polyaniline nanofiber/graphene electrodes. RSC Advances, 2015, 5, 14994-15001.	1.7	29
3220	Synthesis of surfactant-free SnS nanorods by a solvothermal route with better electrochemical properties towards supercapacitor applications. RSC Advances, 2015, 5, 17228-17235.	1.7	104
3221	Dumbbell-like Au-Fe₃O₄ nanoparticles: a new nanostructure for supercapacitors. Nanoscale, 2015, 7, 4890-4893.	2.8	78

#	Article	IF	Citations
3222	Facile complex-coprecipitation synthesis of mesoporous Fe3O4 nanocages and their high lithium storage capacity as anode material for lithium-ion batteries. Electrochimica Acta, 2015, 160, 114-122.	2.6	70
3223	Promotional effect of phosphorus doping on the activity of the Fe-N/C catalyst for the oxygen reduction reaction. Electrochimica Acta, 2015, 155, 335-340.	2.6	50
3224	Comparative supercapacitance performance of CuO nanostructures for energy storage device applications. RSC Advances, 2015, 5, 20545-20553.	1.7	106
3225	The effect of K-Ion on the electrochemical performance of spinel LiMn2O4. Electronic Materials Letters, 2015, 11, 138-142.	1.0	6
3226	All Solid-State Lithium Batteries Assembled with Hybrid Solid Electrolytes. Journal of the Electrochemical Society, 2015, 162, A704-A710.	1.3	158
3227	Nanoflakeâ€Assembled Hierarchical Na₃V₂(PO₄)₃/C Microflowers: Superior Li Storage Performance and Insertion/Extraction Mechanism. Advanced Energy Materials, 2015, 5, 1401963.	10.2	169
3228	Atomicâ€Scale Structure Evolution in a Quasiâ€Equilibrated Electrochemical Process of Electrode Materials for Rechargeable Batteries. Advanced Materials, 2015, 27, 2134-2149.	11.1	63
3229	Small Changeâ€"Great Effect: Steep Increase of Li Ion Dynamics in Li₄Ti₅O₁₂ at the Early Stages of Chemical Li Insertion. Chemistry of Materials, 2015, 27, 1740-1750.	3.2	102
3230	NiMoO₄@Co(OH)₂ core/shell structure nanowire arrays supported on Ni foam for high-performance supercapacitors. RSC Advances, 2015, 5, 21881-21887.	1.7	37
3231	Shell Structure Control of PPy-Modified CuO Composite Nanoleaves for Lithium Batteries with Improved Cyclic Performance. ACS Sustainable Chemistry and Engineering, 2015, 3, 507-517.	3.2	54
3232	Design of electrocatalysts for oxygen- and hydrogen-involving energy conversion reactions. Chemical Society Reviews, 2015, 44, 2060-2086.	18.7	4,323
3233	Superior performance asymmetric supercapacitors based on ZnCo₂O₄@MnO₂ coreâ€"shell electrode. Journal of Materials Chemistry A, 2015, 3, 5442-5448.	5.2	158
3234	Phytosynthesis and applications of bioactive SnO2 nanoparticles. Materials Characterization, 2015, 101, 97-105.	1.9	43
3235	Sphere-Shaped Hierarchical Cathode with Enhanced Growth of Nanocrystal Planes for High-Rate and Cycling-Stable Li-Ion Batteries. Nano Letters, 2015, 15, 656-661.	4.5	119
3236	Fe3O4@porous carbon hybrid as the anode material for a lithium-ion battery: performance optimization by composition and microstructure tailoring. New Journal of Chemistry, 2015, 39, 3435-3443.	1.4	17
3237	Progress in material selection for solid oxide fuel cell technology: A review. Progress in Materials Science, 2015, 72, 141-337.	16.0	1,143
3238	Highly porous honeycomb manganese oxide@carbon fibers coreâ€"shell nanocables for flexible supercapacitors. Nano Energy, 2015, 13, 47-57.	8.2	65
3239	Stable Alkali Metal Ion Intercalation Compounds as Optimized Metal Oxide Nanowire Cathodes for Lithium Batteries. Nano Letters, 2015, 15, 2180-2185.	4.5	160

#	Article	IF	Citations
3240	Lithium-Ion Batteries. Neutron Scattering Applications and Techniques, 2015, , 139-203.	0.2	2
3241	Grapheneâ€Supported Substoichiometric Sodium Tantalate as a Methanolâ€Tolerant, Nonâ€Nobleâ€Metal Catalyst for the Electroreduction of Oxygen. ChemCatChem, 2015, 7, 911-915.	1.8	29
3242	Effect of porosity on electrochemical and mechanical properties of composite Li-ion anodes. Journal of Composite Materials, 2015, 49, 1849-1862.	1.2	39
3243	Recent advances in graphene and its metal-oxide hybrid nanostructures for lithium-ion batteries. Nanoscale, 2015, 7, 4820-4868.	2.8	169
3244	Flagellar filament bio-templated inorganic oxide materials â€“ towards an efficient lithium battery anode. Scientific Reports, 2015, 5, 7736.	1.6	24
3245	Effect of rigidity of porous structure on electrochemical behavior of pristine Li4Ti5O12 microspheres. Electrochimica Acta, 2015, 156, 216-222.	2.6	16
3246	Human walking-driven wearable all-fiber triboelectric nanogenerator containing electrospun polyvinylidene fluoride piezoelectric nanofibers. Nano Energy, 2015, 14, 226-235.	8.2	287
3247	Nanostructued coreâ€“shell Sn nanowires @ CNTs with controllable thickness of CNT shells for lithium ion battery. Applied Surface Science, 2015, 332, 192-197.	3.1	33
3248	Improved electrochemical performance of zinc oxide coated lithium manganese silicate electrode for lithium-ion batteries. Journal of Alloys and Compounds, 2015, 633, 194-200.	2.8	9
3249	Phosphorous, nitrogen coâ€doped carbon from spent coffee grounds for fuel cell applications. Journal of Applied Polymer Science, 2015, 132, .	1.3	16
3250	Rational design of coaxial mesoporous birnessite manganese dioxide/amorphous-carbon nanotubes arrays for advanced asymmetric supercapacitors. Journal of Power Sources, 2015, 278, 555-561.	4.0	54
3251	In Situ Preparation of Sandwich MoO₃/C Hybrid Nanostructures for Highâ€Rate and Ultralongâ€Life Supercapacitors. Advanced Functional Materials, 2015, 25, 1886-1894.	7.8	116
3252	Anomalous Localization of Electrochemical Activity in Reversible Charge Transfer at a Weierstrass Fractal Electrode: Local Electrochemical Impedance Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 10876-10887.	1.2	14
3253	Nanostructured Mo-based electrode materials for electrochemical energy storage. Chemical Society Reviews, 2015, 44, 2376-2404.	18.7	599
3254	First-Principles Investigation of Transition Metal Dichalcogenide Nanotubes for Li and Mg Ion Battery Applications. Journal of Physical Chemistry C, 2015, 119, 4302-4311.	1.5	47
3255	Charge Storage in Cation Incorporated Î±-MnO₂. Chemistry of Materials, 2015, 27, 1172-1180.	3.2	122
3256	High-Performance Oxygen Redox Catalysis with Multifunctional Cobalt Oxide Nanochains: Morphology-Dependent Activity. ACS Catalysis, 2015, 5, 2017-2027.	5.5	249
3257	Facile general strategy toward hierarchical mesoporous transition metal oxides arrays on three-dimensional macroporous foam with superior lithium storage properties. Nano Energy, 2015, 13, 77-91.	8.2	164

#	Article	IF	Citations
3258	Structural and Chemical Evolution of Amorphous Nickel Iron Complex Hydroxide upon Lithiation/Delithiation. Chemistry of Materials, 2015, 27, 1583-1589.	3.2	20
3259	High performance composite polymer electrolytes for lithium-ion polymer cells composed of a graphite negative electrode and LiFePO₄ positive electrode. RSC Advances, 2015, 5, 18359-18366.	1.7	13
3260	Li-Rich Li-Si Alloy As A Lithium-Containing Negative Electrode Material Towards High Energy Lithium-Ion Batteries. Scientific Reports, 2015, 5, 8085.	1.6	53
3261	Mesoporous Iron Phosphonate Electrodes with Crystalline Frameworks for Lithium-Ion Batteries. Chemistry of Materials, 2015, 27, 1082-1089.	3.2	138
3262	A silver-nanoparticle-catalyzed graphite composite for electrochemical energy storage. Journal of Power Sources, 2015, 275, 688-693.	4.0	19
3263	Ionic Liquid-Derived Nitrogen-Enriched Carbon/Sulfur Composite Cathodes with Hierarchical Microstructureâ€"A Step Toward Durable High-Energy and High-Performance Lithiumâ€"Sulfur Batteries. Chemistry of Materials, 2015, 27, 1674-1683.	3.2	76
3264	Hierarchically Porous Carbon Nanosheets from Waste Coffee Grounds for Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 3684-3690.	4.0	261
3265	Advanced Physical Chemistry of Carbon Nanotubes. Annual Review of Physical Chemistry, 2015, 66, 331-356.	4.8	42
3266	Synthesis of Polymer Electrolytes Based on Poly(ethylene oxide) and an Anion-Stabilizing Hard Polymer for Enhancing Conductivity and Cation Transport. ACS Macro Letters, 2015, 4, 225-230.	2.3	58
3267	High-rate performance of a bacterial iron-oxide electrode material for lithium-ion battery. Materials Letters, 2015, 139, 414-417.	1.3	18
3268	Ionic conduction in Mg2+ and Sr2+ co-doped ceria/carbonates nanocomposite electrolytes. International Journal of Hydrogen Energy, 2015, 40, 3313-3320.	3.8	17
3269	Tailoring Pore Size of Nitrogenâ€Đoped Hollow Carbon Nanospheres for Confining Sulfur in Lithiumâ€"Sulfur Batteries. Advanced Energy Materials, 2015, 5, 1401752.	10.2	273
3270	Storing energy in plastics: a review on conducting polymers & their role in electrochemical energy storage. RSC Advances, 2015, 5, 11611-11626.	1.7	192
3271	Surfactant-assisted encapsulation of uniform SnO₂nanoparticles in graphene layers for high-performance Li-storage. 2D Materials, 2015, 2, 014005.	2.0	18
3272	High Capacity Li-Rich Positive Electrode Materials with Reduced First-Cycle Irreversible Capacity Loss. Chemistry of Materials, 2015, 27, 757-767.	3.2	104
3273	Dually Fixed SnO₂ Nanoparticles on Graphene Nanosheets by Polyaniline Coating for Superior Lithium Storage. ACS Applied Materials & Interfaces, 2015, 7, 2444-2451.	4.0	99
3274	Transitions from Near-Surface to Interior Redox upon Lithiation in Conversion Electrode Materials. Nano Letters, 2015, 15, 1437-1444.	4.5	97
3275	Retransformed graphitic activated carbon from ionic liquid-derived carbon containing nitrogen. Journal of Materials Chemistry A, 2015, 3, 2564-2567.	5.2	14

#	Article	IF	Citations
3276	PEDOT: PSS as a Functional Binder for Cathodes in Lithium Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A674-A678.	1.3	86
3277	Smart construction of three-dimensional hierarchical tubular transition metal oxide core/shell heterostructures with high-capacity and long-cycle-life lithium storage. Nano Energy, 2015, 12, 437-446.	8.2	220
3278	High capacity retention Si/silicide nanocomposite anode materials fabricated by high-energy mechanical milling for lithium-ion rechargeable batteries. Journal of Power Sources, 2015, 281, 293-300.	4.0	31
3279	Cobalt oxide functionalized nanoporous carbon electrodes and their excellent supercapacitive performance. RSC Advances, 2015, 5, 13930-13940.	1.7	20
3280	Lithium-ion batteries (LIBs) for medium- and large-scale energy storage. , 2015, , 213-289.		6
3281	Monolithic Graphene Trees as Anode Material for Lithium Ion Batteries with High Câ€Rates. Small, 2015, 11, 2774-2781.	5.2	19
3282	Sandwich Nanoarchitecture of Si/Reduced Graphene Oxide Bilayer Nanomembranes for Li-Ion Batteries with Long Cycle Life. ACS Nano, 2015, 9, 1198-1205.	7.3	137
3283	Influence of the carrier concentration on the piezotronic effect in a ZnO/Au Schottky junction. Nanoscale, 2015, 7, 4461-4467.	2.8	27
3284	Ferrite Materials. Handbook of Magnetic Materials, 2015, 23, 291-379.	0.6	64
3285	A new approach for the improved interpretation of capacitance measurements for materials utilised in energy storage. RSC Advances, 2015, 5, 12782-12791.	1.7	79
3286	Three-Dimensional Fe2O3 Nanocubes/Nitrogen-doped Graphene Aerogels: Nucleation Mechanism and Lithium Storage Properties. Scientific Reports, 2014, 4, 7171.	1.6	102
3287	Designed fabrication of fluorine-doped carbon coated mesoporous TiO2 hollow spheres for improved lithium storage. Electrochimica Acta, 2015, 157, 1-7.	2.6	46
3288	Sodium Storage Behavior in Natural Graphite using Etherâ€based Electrolyte Systems. Advanced Functional Materials, 2015, 25, 534-541.	7.8	625
3289	One-step hydrothermal synthesis of graphene decorated V2O5 nanobelts for enhanced electrochemical energy storage. Scientific Reports, 2015, 5, 8151.	1.6	170
3290	Binary cooperative NiCo₂O₄ on the nickel foams with quasi-two-dimensional precursors: a bridge between â€˜supercapacitorâ€™ and â€˜batteryâ€™ in electrochemical energy storage. Physical Chemistry Chemical Physics, 2015, 17, 5606-5612.	1.3	8
3291	Solvent responsive silica composite nanofiltration membrane with controlled pores and improved ion selectivity for vanadium flow battery application. Journal of Power Sources, 2015, 274, 1126-1134.	4.0	38
3292	Effects of morphology and chemical doping on electrochemical properties of metal hydroxides in pseudocapacitors. Nanoscale, 2015, 7, 3181-3188.	2.8	49
3293	Highly-crystalline ultrathin Li4Ti5O12 nanosheets decorated with silver nanocrystals as a high-performance anode material for lithium ion batteries. Journal of Power Sources, 2015, 276, 247-254.	4.0	99

#	Article	IF	Citations
3295	Dense integration of graphene and sulfur through the soft approach for compact lithium/sulfur battery cathode. Nano Energy, 2015, 12, 468-475.	8.2	142
3296	A high-density grapheneâ€“sulfur assembly: a promising cathode for compact Liâ€“S batteries. Nanoscale, 2015, 7, 5592-5597.	2.8	92
3297	Fabricating high performance lithium-ion batteries using bionanotechnology. Nanoscale, 2015, 7, 3356-3372.	2.8	39
3298	Flexible and Stackable Laser-Induced Graphene Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 3414-3419.	4.0	352
3299	Recent progress in theoretical and computational investigations of Li-ion battery materials and electrolytes. Physical Chemistry Chemical Physics, 2015, 17, 4799-4844.	1.3	237
3300	Ethylenediamine-assisted crystallization of Fe₂O₃microspindles with controllable size and their pseudocapacitance performance. CrystEngComm, 2015, 17, 1521-1525.	1.3	39
3301	Thermal Conversion of Coreâ€“Shell Metalâ€“Organic Frameworks: A New Method for Selectively Functionalized Nanoporous Hybrid Carbon. Journal of the American Chemical Society, 2015, 137, 1572-1580.	6.6	1,307
3302	Hierarchically Ordered Porous CoOOH Thinâ€Film Electrodes for Highâ€Performance Supercapacitors. ChemElectroChem, 2015, 2, 497-502.	1.7	39
3303	Metallic tin-based nanoparticles synthesis by laser pyrolysis: Parametric studies focused on the decreasing of the crystallite size. Applied Surface Science, 2015, 336, 290-296.	3.1	6
3304	Facile Synthesis of Mesoporous MoS₂â€TiO₂ Nanofibers for Ultrastable Lithium Ion Battery Anodes. ChemElectroChem, 2015, 2, 374-381.	1.7	51
3305	Facile synthesis of porous Fe3O4@C nanospheres as high-performance anode for lithium-ion battery. Journal of Solid State Electrochemistry, 2015, 19, 1211-1215.	1.2	36
3306	Nanoâ€Microstructured Si/C Composite with High Tap Density as an Anode Material for Lithiumâ€Ion Batteries. ChemElectroChem, 2015, 2, 611-616.	1.7	42
3307	Elegant design of electrode and electrode/electrolyte interface in lithium-ion batteries by atomic layer deposition. Nanotechnology, 2015, 26, 024001.	1.3	123
3308	Ultra-fast rate capability of a symmetric supercapacitor with a hierarchical Co₃O₄ nanowire/nanoflower hybrid structure in non-aqueous electrolyte. RSC Advances, 2015, 5, 12700-12709.	1.7	59
3309	Asymmetric Supercapacitors based on Hybrid CuO@Reduced Graphene Oxide@Sponge versus Reduced Graphene Oxide@Sponge Electrodes. Energy Technology, 2015, 3, 168-176.	1.8	57
3310	Facile Synthesis and High Rate Capability of Silicon Carbonitride/Boron Nitride Composite with a Sheet-Like Morphology. Journal of Physical Chemistry C, 2015, 119, 2783-2791.	1.5	44
3311	Highly Stable Supercapacitors with Conducting Polymer Coreâ€Shell Electrodes for Energy Storage Applications. Advanced Energy Materials, 2015, 5, 1401805.	10.2	139
3312	Co₃O₄@MWCNT Nanocable as Cathode with Superior Electrochemical Performance for Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 2280-2285.	4.0	162

#	Article	IF	Citations
3313	Lithium-ion batteries (LIBs) for medium- and large-scale energy storage:. , 2015, , 125-211.		10
3314	Strongly coupled metal oxide nanorod arrays with graphene nanoribbons and nanosheets enable novel solid-state hybrid cells. Journal of Power Sources, 2015, 283, 95-103.	4.0	11
3315	Hierarchical zigzag Na_{1.25}V₃O₈ nanowires with topotactically encoded superior performance for sodium-ion battery cathodes. Energy and Environmental Science, 2015, 8, 1267-1275.	15.6	158
3316	Hierarchical NiMn₂O₄@CNT nanocomposites for high-performance asymmetric supercapacitors. RSC Advances, 2015, 5, 24607-24614.	1.7	73
3317	The S-hindered synthesis of PbSe/PbS nanosheets with enhanced electrochemical activities. New Journal of Chemistry, 2015, 39, 3513-3519.	1.4	5
3318	General Strategy to Synthesize Uniform Mesoporous TiO₂/Graphene/Mesoporous TiO₂ Sandwich-Like Nanosheets for Highly Reversible Lithium Storage. Nano Letters, 2015, 15, 2186-2193.	4.5	273
3319	Crystallization of FeOOH via iron salts: an anion-chemoaffinity controlled hydrolysis toward high performance inorganic pseudocapacitor materials. CrystEngComm, 2015, 17, 1917-1922.	1.3	45
3320	Surface-modified separators prepared with conductive polymer and aluminum fluoride for lithium-ion batteries. Journal of Power Sources, 2015, 279, 737-744.	4.0	36
3321	A strategy for suitable mass production of a hollow Si@C nanostructured anode for lithium ion batteries. RSC Advances, 2015, 5, 6782-6789.	1.7	32
3322	Hydrothermal Synthesis of Akaganeite Nanorods and Their Supercapacitance Property. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 982-985.	1.9	3
3323	High proton conductivity membrane with coconut shell activated carbon. Ionics, 2015, 21, 1665-1674.	1.2	9
3324	Ionothermal synthesis and enhanced electrochemical performance of nanostructure Cr-doped LiMn2O4 for lithium-ion batteries. Ionics, 2015, 21, 1517-1523.	1.2	12
3325	Hierarchical NiCo₂O₄ nanowire arrays on Ni foam as an anode for lithium-ion batteries. RSC Advances, 2015, 5, 23067-23072.	1.7	41
3326	Electrosynthesis of nanostructures and nanomaterials. Russian Chemical Reviews, 2015, 84, 159-193.	2.5	64
3327	Structural transformations of heat-treated bacterial iron oxide. Materials Chemistry and Physics, 2015, 155, 67-75.	2.0	12
3328	Ultrafast spray pyrolysis fabrication of a nanophase ZnMn₂O₄anode towards high-performance Li-ion batteries. RSC Advances, 2015, 5, 13667-13673.	1.7	20
3329	Porous structure design of carbon xerogels for advanced supercapacitor. Applied Energy, 2015, 153, 32-40.	5.1	44
3330	Potentialâ€Induced Electronic Structure Changes in Supercapacitor Electrodes Observed by In Operando Soft Xâ€Ray Spectroscopy. Advanced Materials, 2015, 27, 1512-1518.	11.1	25

#	Article	IF	Citations
3331	Effect of radio frequency power and thickness on the electrochemical properties of Li2â^'x MnO3â^'y thin films. Journal of Solid State Electrochemistry, 2015, 19, 703-713.	1.2	3
3332	Fe3O4 nanoparticles encapsulated in electrospun porous carbon fibers with a compact shell as high-performance anode for lithium ion batteries. Carbon, 2015, 87, 347-356.	5.4	131
3333	Template-directed construction of nanostructure arrays for highly-efficient energy storage and conversion. Nano Energy, 2015, 13, 790-813.	8.2	95
3334	Fabrication of spinel Li 4â^'x Ti 5 O 12 via ion exchange for high-rate lithium-ion batteries. Journal of Power Sources, 2015, 283, 237-242.	4.0	8
3335	Two-dimensional nanosheets based Li-ion full batteries with high rate capability and flexibility. Nano Energy, 2015, 12, 816-823.	8.2	99
3336	Effect of annealing on the magnetic properties of ball milled NiO powders. Journal of Magnetism and Magnetic Materials, 2015, 384, 296-301.	1.0	18
3337	Impact of the atomic layer deposition precursors diffusion on solid-state carbon nanotube based supercapacitors performances. Nanotechnology, 2015, 26, 064002.	1.3	20
3338	Enhanced ionic conductivity in La3+ and Sr2+ co-doped ceria: carbonate nanocomposite. Ionics, 2015, 21, 2277-2283.	1.2	8
3339	Sn@CNT nanopillars grown perpendicularly on carbon paper: A novel free-standing anode for sodium ion batteries. Nano Energy, 2015, 13, 208-217.	8.2	185
3340	A new method of pretreatment of lithium manganese spinels and high-rate electrochemical performance of Li[Li0.033Mn1.967]O4. Materials for Renewable and Sustainable Energy, 2015, 4, 1.	1.5	8
3341	Interwoven Three-Dimensional Architecture of Cobalt Oxide Nanobrush-Graphene@Ni_xCo_{2x}(OH)_{6x} for High-Performance Supercapacitors. Nano Letters, 2015, 15, 2037-2044.	4.5	134
3342	Surfactant Effects on the Morphology and Pseudocapacitive Behavior of V₂O₅â‹…H₂O. ChemSusChem, 2015, 8, 2399-2406.	3.6	44
3343	Solvated Graphene Frameworks as Highâ€Performance Anodes for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 5345-5350.	7.2	124
3344	Piezoelectric-Driven Self-Charging Supercapacitor Power Cell. ACS Nano, 2015, 9, 4337-4345.	7.3	226
3345	Designed synthesis of LiFe_{0.2}Co_{0.8}O₂ nanomeshes to greatly improve the positive performance in lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 6671-6678.	5.2	7
3346	Recent Advances in Continuum Modeling of Interfacial and Transport Phenomena in Electric Double Layer Capacitors. Journal of the Electrochemical Society, 2015, 162, A5158-A5178.	1.3	105
3347	Macroscopic Carbon Nanotubeâ€based 3D Monoliths. Small, 2015, 11, 3263-3289.	5.2	83
3348	Ti³⁺ self-doped Li₄Ti₅O₁₂ nanosheets as anode materials for high performance lithium ion batteries. RSC Advances, 2015, 5, 23278-23282.	1.7	37

#	Article	IF	Citations
3349	High-Performance Lithium-Ion Polymer Cells Assembled with Composite Polymer Electrolytes based on Core-Shell Structured SiO₂Particles Containing Poly(lithium acrylate) in the Shell. Journal of the Electrochemical Society, 2015, 162, A3071-A3076.	1.3	18
3350	Recent developments in electrode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 9353-9378.	5.2	413
3351	Nonfilling Carbon Coating of Porous Silicon Micrometer-Sized Particles for High-Performance Lithium Battery Anodes. ACS Nano, 2015, 9, 2540-2547.	7.3	433
3352	Graphene foam functionalized with electrodeposited nickel hydroxide for energy applications. Diamond and Related Materials, 2015, 57, 63-67.	1.8	15
3353	An in situ self-developed graphite as high capacity anode of lithium-ion batteries. Chemical Communications, 2015, 51, 12118-12121.	2.2	17
3354	Recent advances on multi-component hybrid nanostructures for electrochemical capacitors. Journal of Power Sources, 2015, 294, 31-50.	4.0	107
3355	Enhanced rate performance of LiNi0.5Mn1.5O4 fibers synthesized by electrospinning. Nano Energy, 2015, 15, 616-624.	8.2	27
3356	Controllable preparation of multi-dimensional hybrid materials of nickel-cobalt layered double hydroxide nanorods/nanosheets on electrospun carbon nanofibers for high-performance supercapacitors. Electrochimica Acta, 2015, 174, 456-463.	2.6	107
3357	The design of a high-energy Li-ion battery using germanium-based anode and LiCoO2 cathode. Journal of Power Sources, 2015, 293, 868-875.	4.0	47
3358	Porous Î±-Fe2O3 nanostructures and their lithium storage properties asÂfull cell configuration against LiFePO4. Journal of Power Sources, 2015, 293, 213-220.	4.0	24
3359	Hollow nanospheres composed of titanium dioxide nanocrystals modified with carbon and gold for high performance lithium ion batteries. Journal of Power Sources, 2015, 294, 465-472.	4.0	27
3360	Facile self-templating large scale preparation of biomass-derived 3D hierarchical porous carbon for advanced supercapacitors. Journal of Materials Chemistry A, 2015, 3, 18154-18162.	5.2	424
3361	Highly porous graphitic carbon and Ni₂P₂O₇for a high performance aqueous hybrid supercapacitor. Journal of Materials Chemistry A, 2015, 3, 21553-21561.	5.2	153
3362	Deposition of silver nanoparticles into silicon/carbon composite as a high-performance anode material for Li-ion batteries. Journal of Solid State Electrochemistry, 2015, 19, 3595-3604.	1.2	12
3363	Microbumpers maintain superhydrophobicity of nanostructured surfaces upon touch. Applied Surface Science, 2015, 349, 705-714.	3.1	11
3364	Binary iron-chromium oxide as negative electrode for lithium-ion micro-batteries â€“ spectroscopic and microscopic characterization. Applied Surface Science, 2015, 353, 1170-1178.	3.1	10
3365	The effect of SiO2 nanoparticles in Li3V2(PO4)3/graphene as a cathode material for Li-ion batteries. Materials Letters, 2015, 160, 206-209.	1.3	9
3366	Atomic resolution observation of conversion-type anode RuO₂during the first electrochemical lithiation. Nanotechnology, 2015, 26, 125404.	1.3	14

#	Article	IF	Citations
3367	Enhancing 5 V capacitor performance by adding single walled carbon nanotubes into an ionic liquid electrolyte. Journal of Materials Chemistry A, 2015, 3, 15858-15862.	5.2	11
3368	A facile process to prepare crosslinked nano-graphites uniformly dispersed in titanium oxide films as solar selective absorbers. Solar Energy Materials and Solar Cells, 2015, 143, 198-204.	3.0	9
3369	Bottom-up synthesis of high-performance nitrogen-enriched transition metal/graphene oxygen reduction electrocatalysts both in alkaline and acidic solution. Nanoscale, 2015, 7, 14707-14714.	2.8	29
3370	One-step hydrothermal synthesis of Nb doped brookite TiO₂ nanosheets with enhanced lithium-ion intercalation properties. Journal of Materials Chemistry A, 2015, 3, 18882-18888.	5.2	30
3371	Programmable definition of nanogap electronic devices using self-inhibited reagent depletion. Nature Communications, 2015, 6, 6940.	5.8	18
3372	Influence of ultrasound on the instantaneous synthesis of tridimensional Î±-Ni(OH)2 nanostructures and derived NiO nanoparticles. CrystEngComm, 2015, 17, 6193-6206.	1.3	14
3373	From a metalâ€“organic framework to hierarchical high surface-area hollow octahedral carbon cages. Chemical Communications, 2015, 51, 13945-13948.	2.2	40
3374	N-Type Hyperbranched Polymers for Supercapacitor Cathodes with Variable Porosity and Excellent Electrochemical Stability. Macromolecules, 2015, 48, 5196-5203.	2.2	44
3375	Comparison of surface and bulk nitrogen modification in highly porous carbon for enhanced supercapacitors. Science China Materials, 2015, 58, 521-533.	3.5	25
3376	Charge transfer and storage in nanostructures. Materials Science and Engineering Reports, 2015, 96, 1-69.	14.8	74
3377	Gene expression as an indicator of the molecular response and toxicity in the bacterium Shewanella oneidensis and the water flea Daphnia magna exposed to functionalized gold nanoparticles. Environmental Science: Nano, 2015, 2, 615-629.	2.2	38
3378	Co(OH)2 Nanosheets Coupled With CNT Arrays Grown on Ni Mesh for High-Rate Asymmetric Supercapacitors with Excellent Capacitive Behavior. Electrochimica Acta, 2015, 176, 77-85.	2.6	48
3379	Formation of double layer hollow nanostars of Pd/CuIr by utilizing a Kirkendall effect and a facile Cu atom movement along twinning boundaries and their usage as efficient water splitting catalysts. CrystEngComm, 2015, 17, 4084-4088.	1.3	18
3380	Mesoporous NiCo2O4 nanoneedles grown on three dimensional graphene networks as binder-free electrode for high-performance lithium-ion batteries and supercapacitors. Electrochimica Acta, 2015, 176, 1-9.	2.6	110
3381	Viral nano-hybrids for innovative energy conversion and storage schemes. Journal of Materials Chemistry B, 2015, 3, 6718-6730.	2.9	10
3382	One-Pot Synthesis of Copper Sulfide Nanowires/Reduced Graphene Oxide Nanocomposites with Excellent Lithium-Storage Properties as Anode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 15726-15734.	4.0	122
3383	Carbon nanotube@layered nickel silicate coaxial nanocables as excellent anode materials for lithium and sodium storage. Journal of Materials Chemistry A, 2015, 3, 16551-16559.	5.2	62
3384	Microstructurally Composed Nanoparticle Assemblies as Electroactive Materials for Lithium-Ion Battery Electrodes. Green Energy and Technology, 2015, , 353-391.	0.4	1

#	Article	IF	Citations
3385	Lithium Battery Technologies. , 2015, , 125-166.		4
3386	Polyhedral MnO nanocrystals anchored on reduced graphene oxide as an anode material with superior lithium storage capability. Ceramics International, 2015, 41, 10680-10688.	2.3	13
3387	In Situ-Generated Co⁰-Co₃O₄/N-Doped Carbon Nanotubes Hybrids as Efficient and Chemoselective Catalysts for Hydrogenation of Nitroarenes. ACS Catalysis, 2015, 5, 4783-4789.	5.5	363
3388	Thermochemical conversion of lignin to functional materials: a review and future directions. Green Chemistry, 2015, 17, 4888-4907.	4.6	437
3389	Monodisperse platinum nanoparticles supported on highly ordered mesoporous silicon nitride nanoblocks: superior catalytic activity for hydrogen generation from sodium borohydride. RSC Advances, 2015, 5, 58943-58951.	1.7	41
3390	Electrospun SnO2â€“ZnO nanofibers with improved electrochemical performance as anode materials for lithium-ion batteries. International Journal of Hydrogen Energy, 2015, 40, 14338-14344.	3.8	50
3391	Preliminary study of high energy density Zn/Ni flow batteries. Journal of Power Sources, 2015, 294, 574-579.	4.0	23
3392	Controlled synthesis of series NixCo3-xO4 products: Morphological evolution towards quasi-single-crystal structure for high-performance and stable lithium-ion batteries. Scientific Reports, 2015, 5, 11584.	1.6	16
3393	Graphene activated 3D-hierarchical flower-like Li₂FeSiO₄ for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 16567-16573.	5.2	52
3394	Rational design of octahedron and nanowire CeO₂@MnO₂ coreâ€“shell heterostructures with outstanding rate capability for asymmetric supercapacitors. Chemical Communications, 2015, 51, 14840-14843.	2.2	160
3395	Hierarchical nanosheet-constructed yolkâ€“shell TiO₂ porous microspheres for lithium batteries with high capacity, superior rate and long cycle capability. Nanoscale, 2015, 7, 12979-12989.	2.8	51
3396	Structure and electrochemical performance of hollow microspheres of LiFe_xNi_{1/3âˆ’x}Co_{1/3}Mn_{1/3}O₂(0.000 â‰¤ x â‰¤) Tj ETQq1 1 0.7843		
3397	Novel electrodeposition media to synthesize CoNi-Pt Core@Shell stable mesoporous nanorods with very high active surface for methanol electro-oxidation. Electrochimica Acta, 2015, 174, 630-639.	2.6	29
3398	Engineering a three-dimensional, photoelectrochemically active p-NiO / i-Sb 2 S 3 junction by atomic layer deposition. Electrochimica Acta, 2015, 179, 504-511.	2.6	23
3399	Robust polymeric coating enables the stable operation of silicon micro-plate anodes recovered from photovoltaic industry waste for high-performance Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 15432-15443.	5.2	36
3400	Two-dimensional titanium carbide electrode with large mass loading for supercapacitor. Journal of Power Sources, 2015, 294, 354-359.	4.0	199
3401	Regulating Ion Transport in Peptide Nanotubes by Tailoring the Nanotube Lumen Chemistry. Journal of Physical Chemistry Letters, 2015, 6, 1514-1520.	2.1	14
3402	Multifunctional Iron Oxide Nanoflake/Graphene Composites Derived from Mechanochemical Synthesis for Enhanced Lithium Storage and Electrocatalysis. ACS Applied Materials & Interfaces, 2015, 7, 14446-14455.	4.0	75

#	Article	IF	Citations
3403	High-Performance Supercapacitor Electrode Materials from Cellulose-Derived Carbon Nanofibers. ACS Applied Materials & Interfaces, 2015, 7, 14946-14953.	4.0	189
3404	Nickel oxide grown on carbon nanotubes/carbon fiber paper by electrodeposition as flexible electrode for high-performance supercapacitors. Journal of Materials Science: Materials in Electronics, 2015, 26, 7901-7908.	1.1	11
3405	A Stable Flexible Silicon Nanowire Array as Anode for High-Performance Lithium-ion Batteries. Electrochimica Acta, 2015, 176, 321-326.	2.6	14
3406	Novel Zn 2 V 2 O 7 hierarchical nanostructures: Optical and hydrogen storage properties. International Journal of Hydrogen Energy, 2015, 40, 9359-9364.	3.8	23
3407	Porous Ni0.14Mn0.86O1.43 hollow microspheres as high-performing anodes for lithium-ion batteries. Journal of Power Sources, 2015, 291, 156-162.	4.0	30
3408	Facile synthesis of tin dioxide-based high performance anodes for lithium ion batteries assisted by graphene gel. Journal of Power Sources, 2015, 295, 41-46.	4.0	21
3409	Hydromagnesite Rectangular Thin Sheets as Efficient Heterogeneous Catalysts for the Synthesis of 3-Substituted Indoles via Yonemitsu-Type Condensation in Water. ACS Sustainable Chemistry and Engineering, 2015, 3, 1536-1543.	3.2	22
3410	Utilizing the anti-ferromagnetic functionality of a multiferroic shell to study exchange bias in hybrid coreâ€“shell nanostructures. Nanoscale, 2015, 7, 13398-13403.	2.8	15
3411	Nanostructured conducting polymer hydrogels for energy storage applications. Nanoscale, 2015, 7, 12796-12806.	2.8	160
3412	Oxygen deficient, carbon coated self-organized TiO₂ nanotubes as anode material for Li-ion intercalation. Journal of Materials Chemistry A, 2015, 3, 16469-16477.	5.2	57
3413	Urea-assisted solvothermal synthesis of monodisperse multiporous hierarchical micro/nanostructured ZnCo2O4 microspheres and their lithium storage properties. Ionics, 2015, 21, 2743-2754.	1.2	18
3414	Synthesis of high-voltage spinel LiNi0.5Mn1.5O4 material for lithium-ion batteries by a metal-cholate supramolecular hydrogel as precursor. Journal of Solid State Electrochemistry, 2015, 19, 3365-3372.	1.2	7
3415	Lithium-ion polymer cells assembled with a reactive composite separator containing vinyl-functionalized SiO2 particles. Journal of Power Sources, 2015, 295, 149-155.	4.0	23
3416	Copper Nanowires: A Substitute for Noble Metals to Enhance Photocatalytic H₂ Generation. Nano Letters, 2015, 15, 4853-4858.	4.5	111
3417	A reduced graphene oxide modified metallic cobalt composite with superior electrochemical performance for supercapacitors. RSC Advances, 2015, 5, 63553-63560.	1.7	74
3418	3-dimensional porous NiCo2O4 nanocomposite as a high-rate capacity anode for lithium-ion batteries. Electrochimica Acta, 2015, 176, 575-585.	2.6	72
3419	An optimized mild reduction route towards excellent cobaltâ€“graphene catalysts for water oxidation. RSC Advances, 2015, 5, 64858-64864.	1.7	2
3420	Nickel Oxide/Nickel Foam Composite as Supercapacitor Electrode via Electrophoretic Deposition. Key Engineering Materials, 2015, 654, 58-64.	0.4	3

#	Article	IF	Citations
3421	High reversible capacity and rate capability of ZnCo 2 O 4 /graphene nanocomposite anode for high performance lithium ion batteries. Solid State Sciences, 2015, 48, 90-96.	1.5	10
3422	Molecular-based design and emerging applications of nanoporous carbon spheres. Nature Materials, 2015, 14, 763-774.	13.3	838
3423	Graphene oxide as a dual-function conductive binder for PEEK-derived microporous carbons in high performance supercapacitors. 2D Materials, 2015, 2, 024006.	2.0	3
3424	Relevance of the Semiconductor Microstructure in the Pseudocapacitance of the Electrodes Fabricated by EPD of Binder-Free Î²-Ni(OH)₂Nanoplatelets. Journal of the Electrochemical Society, 2015, 162, D3001-D3012.	1.3	21
3425	Carbon nanotubes decorated by mesoporous cobalt oxide as electrode material for lithium-ion batteries. Chemical Physics Letters, 2015, 635, 185-189.	1.2	21
3426	A.C conductivity and dielectric properties of spinel LiMn2O4 nanorods. Ceramics International, 2015, 41, 14070-14077.	2.3	38
3427	Microwave synthesis of Î±-Fe2O3 nanoparticles and their lithium storage properties: A comparative study. Journal of Alloys and Compounds, 2015, 648, 732-739.	2.8	38
3428	Template-Free Synthesis of Ruthenium Oxide Nanotubes for High-Performance Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2015, 7, 16686-16693.	4.0	22
3429	Nickel Hydroxide-Modified Sulfur/Carbon Composite as a High-Performance Cathode Material for Lithium Sulfur Battery. ACS Applied Materials & Interfaces, 2015, 7, 16715-16722.	4.0	87
3430	FeV₂S₄as a high capacity electrode material for sodium-ion batteries. Chemical Communications, 2015, 51, 13500-13503.	2.2	35
3431	Schiff-base polymer derived nitrogen-rich microporous carbon spheres synthesized by molten-salt route for high-performance supercapacitors. RSC Advances, 2015, 5, 60956-60961.	1.7	11
3432	Design and electro-synthesis of 3-D nanofibers of MnO2 thin films and their application in high performance supercapacitor. Electrochimica Acta, 2015, 176, 523-532.	2.6	54
3433	Controllable synthesis of graphene nanoscroll-wrapped Fe₃O₄ nanoparticles and their lithium-ion battery performance. RSC Advances, 2015, 5, 57906-57911.	1.7	26
3434	Tungsten Oxide Nanofibers Self-assembled Mesoscopic Microspheres as High-performance Electrodes for Supercapacitor. Electrochimica Acta, 2015, 174, 728-734.	2.6	64
3435	Mechanism of crack healing at room temperature revealed by atomistic simulations. Acta Materialia, 2015, 95, 291-301.	3.8	23
3436	Formation of Monocrystalline 1D and 2D Architectures via Epitaxial Attachment: Bottom-Up Routes through Surfactant-Mediated Arrays of Oriented Nanocrystals. Langmuir, 2015, 31, 6197-6201.	1.6	20
3437	Surface Passivation of MoO₃ Nanorods by Atomic Layer Deposition toward High Rate Durable Li Ion Battery Anodes. ACS Applied Materials & Interfaces, 2015, 7, 13154-13163.	4.0	105
3438	One-step synthesis of highly aligned SnO₂ nanorods on a self-produced Na₂Sn(OH)₆ substrate for high-performance lithium-ion batteries. CrystEngComm, 2015, 17, 1754-1757.	1.3	20

#	Article	IF	Citations
3439	Cationâ€“anion double hydrolysis derived layered single metal hydroxide superstructures for boosted supercapacitive energy storage. Journal of Materials Chemistry A, 2015, 3, 14228-14238.	5.2	69
3440	Mesoporous-assembled MnO₂ with large specific surface area. Journal of Materials Chemistry A, 2015, 3, 14567-14572.	5.2	14
3441	Effects of morphology on the electrochemical performances of Li₃V₂(PO₄)₃cathode material for lithium ion batteries. RSC Advances, 2015, 5, 54225-54245.	1.7	24
3442	Eco-friendly synthesis of hierarchical ginkgo-derived carbon nanoparticles/NiAl-layered double hydroxide hybrid electrodes toward high-performance supercapacitors. RSC Advances, 2015, 5, 55109-55118.	1.7	18
3443	New science at the meso frontier: Dense nanostructure architectures for electrical energy storage. Current Opinion in Solid State and Materials Science, 2015, 19, 227-234.	5.6	14
3444	In suit growth of ultradispersed NiCo2S4 nanoparticles on graphene for asymmetric supercapacitors. Electrochimica Acta, 2015, 176, 44-50.	2.6	103
3445	Synthesis of Mn3O4-Based Aerogels and Their Lithium-Storage Abilities. Nanoscale Research Letters, 2015, 10, 960.	3.1	13
3446	Nanomaterials: Science and applications in the lithiumâ€“sulfur battery. Nano Today, 2015, 10, 315-338.	6.2	324
3447	Cu²⁺ underpotential-deposition assisted synthesis of Au and Auâ€“Pd alloy nanocrystals with systematic shape evolution. CrystEngComm, 2015, 17, 5556-5561.	1.3	16
3448	Porous Fe₃O₄ hollow spheres with chlorine-doped-carbon coating as superior anode materials for lithium ion batteries. RSC Advances, 2015, 5, 52993-52997.	1.7	23
3449	A review on porous negative electrodes for high performance lithium-ion batteries. Journal of Porous Materials, 2015, 22, 1313-1343.	1.3	52
3450	Facile electrodeposition of 3D concentration-gradient Ni-Co hydroxide nanostructures on nickel foam as high performance electrodes for asymmetric supercapacitors. Nano Research, 2015, 8, 2744-2754.	5.8	90
3451	Electrochemical Studies of Microwave Synthesised Bimetallic Sulfides Nanostructures As Faradaic Electrodes.. Electrochimica Acta, 2015, 174, 778-786.	2.6	12
3452	Polyanthraquinone-based nanostructured electrode material capable of high-performance pseudocapacitive energy storage in aprotic electrolyte. Nano Energy, 2015, 15, 654-661.	8.2	63
3453	Nanostructured conductive polymers for advanced energy storage. Chemical Society Reviews, 2015, 44, 6684-6696.	18.7	719
3454	Phase dependent thermal and spectroscopic responses of Al₂O₃nanostructures with different morphogenesis. Nanoscale, 2015, 7, 13313-13344.	2.8	180
3455	Carbon nanotube-assisted growth of single-/multi-layer SnS₂and SnO₂nanoflakes for high-performance lithium storage. RSC Advances, 2015, 5, 58514-58521.	1.7	31
3456	Cycling performance of lithium-ion polymer cells assembled with a cross-linked composite polymer electrolyte using a fibrous polyacrylonitrile membrane and vinyl-functionalized SiO₂ nanoparticles. Journal of Materials Chemistry A, 2015, 3, 12163-12170.	5.2	34

#	Article	IF	Citations
3457	Optimizing Hybridization of 1T and 2H Phases in MoS₂Monolayers to Improve Capacitances of Supercapacitors. Materials Research Letters, 2015, 3, 177-183.	4.1	149
3458	In situ fabrication of graphene decorated microstructured globe artichokes of partial molar nickel cobaltite anchored on a Ni foam as a high-performance supercapacitor electrode. RSC Advances, 2015, 5, 38407-38416.	1.7	55
3459	Zinc oxide nanostructures by chemical vapour deposition as anodes for Li-ion batteries. Journal of Alloys and Compounds, 2015, 640, 321-326.	2.8	93
3460	Designing Heterogeneous 1D Nanostructure Arrays Based on AAO Templates for Energy Applications. Small, 2015, 11, 3408-3428.	5.2	92
3461	Magnesium Sulphide as Anode Material for Lithium-Ion Batteries. Electrochimica Acta, 2015, 169, 180-185.	2.6	10
3462	Gradual-order enhanced stability: a frozen section of electrospun nanofibers for energy storage. Nanoscale, 2015, 7, 8715-8719.	2.8	19
3463	Facile preparation of a three-dimensional Fe₃O₄/macroporous graphene composite for high-performance Li storage. Journal of Materials Chemistry A, 2015, 3, 12031-12037.	5.2	51
3464	Synthesis of Li4Ti5O12/carbon nanocomposites in supercritical methanol for anode in Li-ion batteries: Effect of surface modifiers. Journal of Supercritical Fluids, 2015, 101, 72-80.	1.6	25
3465	Enhanced electrochemical performance of Li-ion batteries with nanoporous titania as negative electrodes. Journal of Energy Chemistry, 2015, 24, 157-170.	7.1	14
3466	Combined chemical looping for energy storage and conversion. Journal of Power Sources, 2015, 286, 362-370.	4.0	41
3467	Surfactants assisted synthesis and electrochemical properties of nano-LiFePO 4 /C cathode materials for low temperature applications. Journal of Power Sources, 2015, 288, 337-344.	4.0	49
3468	Porous carbon-coated CuCo₂O₄ concave polyhedrons derived from metalâ€“organic frameworks as anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 12038-12043.	5.2	115
3469	Diameter-dependent electrochemical supercapacitive properties of anodized titanium oxide nanotubes. Scripta Materialia, 2015, 104, 60-63.	2.6	11
3470	High-performance asymmetric full-cell supercapacitors based on CoNi2S4 nanoparticles and activated carbon. Journal of Solid State Electrochemistry, 2015, 19, 2177-2188.	1.2	25
3471	Hydroxyapatite wrapped multiwalled carbon nanotubes composite, aÂhighly efficient template for palladium loading for electrooxidation of alcohols. Journal of Power Sources, 2015, 287, 458-464.	4.0	9
3472	Effect of Nanoparticles on Ion Transport in Polymer Electrolytes. Macromolecules, 2015, 48, 2773-2786.	2.2	78
3473	Ultrasmall metal oxide nanoparticles anchored on three-dimensional hierarchical porous gaphene-like networks as anode for high-performance lithium ion batteries. Nano Energy, 2015, 13, 563-572.	8.2	78
3474	Cobalt oxide modified porous carbon anode enhancing electrochemical performance for Li-ion batteries. Electrochimica Acta, 2015, 167, 246-253.	2.6	31

#	Article	IF	Citations
3475	Facile Synthesis of Cu2O/RGO/Ni(OH)2 Nanocomposite and its Double Synergistic Effect on Supercapacitor Performance. Electrochimica Acta, 2015, 165, 314-322.	2.6	58
3476	Synthesis of ZnOâ€“ZnCo2O4 hybrid hollow microspheres with excellent lithium storage properties. Electrochimica Acta, 2015, 169, 283-290.	2.6	64
3477	Hierarchical Si hydrogel architecture with conductive polyaniline channels on sulfonated-graphene for high-performance Li ion battery anodes having a robust cycle life. Journal of Materials Chemistry A, 2015, 3, 10238-10242.	5.2	22
3478	Semiconductor nanowire battery electrodes. , 2015, , 441-469.		1
3479	Graphene based integrated tandem supercapacitors fabricated directly on separators. Nano Energy, 2015, 15, 1-8.	8.2	30
3480	Holey Graphene Nanosheets with Surface Functional Groups as Highâ€Performance Supercapacitors in Ionicâ€Liquid Electrolyte. ChemSusChem, 2015, 8, 1779-1786.	3.6	43
3481	Facile synthesis of three-dimensional structured carbon fiber-NiCo2O4-Ni(OH)2 high-performance electrode for pseudocapacitors. Scientific Reports, 2015, 5, 9277.	1.6	78
3482	Electron Bottleneck in the Charge/Discharge Mechanism of Lithium Titanates for Batteries. ChemSusChem, 2015, 8, 1737-1744.	3.6	19
3483	High energy density asymmetric supercapacitors based on polyaniline nanotubes and tungsten trioxide rods. Ionics, 2015, 21, 2309-2317.	1.2	20
3484	Electrocatalytic properties of nanomaterials synthesized from â€œBromide Anion Exchangeâ€•method - Investigations of glucose and glycerol oxidation. Electrochimica Acta, 2015, 162, 205-214.	2.6	36
3485	Ultraâ€Fast Microwave Synthesis of 3D Flowerâ€Like Co₉S₈ Hierarchical Architectures for Highâ€Performance Supercapacitor Applications. European Journal of Inorganic Chemistry, 2015, 2015, 2457-2462.	1.0	64
3486	The Development of Pseudocapacitive Properties in Nanosized-MoO₂. Journal of the Electrochemical Society, 2015, 162, A5083-A5090.	1.3	170
3487	Ultrahigh-rate and high-density lithium-ion capacitors through hybriding nitrogen-enriched hierarchical porous carbon cathode with prelithiated microcrystalline graphite anode. Nano Energy, 2015, 15, 43-53.	8.2	156
3488	High-Performance Solid-State Supercapacitors Fabricated by Pencil Drawing and Polypyrrole Depositing on Paper Substrate. Nano-Micro Letters, 2015, 7, 276-281.	14.4	43
3489	Carbon-supported PtCo2Ni2 alloy with enhanced activity and stability for oxygen reduction. Science China Materials, 2015, 58, 179-185.	3.5	17
3490	Sandwich-Structured Graphene-Fe₃O₄@Carbon Nanocomposites for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 9709-9715.	4.0	141
3491	Synthesis of TiO2(B)/SnO2 composite materials as an anode for lithium-ion batteries. Ceramics International, 2015, 41, 9527-9533.	2.3	22
3492	One-pot synthesis of sandwich-like reduced graphene oxide@CoNiAl layered double hydroxide with excellent pseudocapacitive properties. Journal of Materials Chemistry A, 2015, 3, 10858-10863.	5.2	64

#	Article	IF	Citations
3493	Diffusion-induced stress and delamination of layered electrode plates with composition-gradient. Mechanics of Materials, 2015, 91, 351-362.	1.7	31
3494	Glycine/sucrose-based solution combustion synthesis of high-purity LiMn2O4 with improved yield as cathode materials for lithium-ion batteries. Advanced Powder Technology, 2015, 26, 665-671.	2.0	34
3495	Switchable electrolyte properties and redox chemistry in aqueous media based on temperature-responsive polymers. Journal of Applied Electrochemistry, 2015, 45, 921-930.	1.5	6
3496	Efficient Electrolytes for LithiumÃ¢â‚¬â€œSulfur Batteries. Frontiers in Energy Research, 2015, 3, .	1.2	42
3497	Construction of unique Co₃O₄@CoMoO₄ core/shell nanowire arrays on Ni foam by the action exchange method for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 14578-14584.	5.2	84
3498	Electrochemical fabrication of Ni(OH)₂/Ni 3D porous composite films as integrated capacitive electrodes. RSC Advances, 2015, 5, 12931-12936.	1.7	69
3499	Structural and electrochemical analysis of a novel co-electrodeposited Mn₂O₃â€“Au nanocomposite thin film. Dalton Transactions, 2015, 44, 9158-9169.	1.6	22
3500	2D hybrid anode based on SnS nanosheet bonded with graphene to enhance electrochemical performance for lithium-ion batteries. RSC Advances, 2015, 5, 46941-46946.	1.7	76
3501	Silicon-nanoparticles isolated by in situ grown polycrystalline graphene hollow spheres for enhanced lithium-ion storage. Journal of Materials Chemistry A, 2015, 3, 7810-7821.	5.2	41
3502	N- and S-doped high surface area carbon derived from soya chunks as scalable and efficient electrocatalysts for oxygen reduction. Science and Technology of Advanced Materials, 2015, 16, 014803.	2.8	28
3503	Facile pH-mediated synthesis of morphology-tunable MnCO₃and their transformation to truncated octahedral spinel LiMn₂O₄cathode materials for superior lithium storage. Journal of Materials Chemistry A, 2015, 3, 3633-3640.	5.2	79
3504	Electrochemical tuning of olivine-type lithium transition-metal phosphates as efficient water oxidation catalysts. Energy and Environmental Science, 2015, 8, 1719-1724.	15.6	167
3505	Truncated octahedral platinumâ€“nickelâ€“iridium ternary electro-catalyst for oxygen reduction reaction. Journal of Power Sources, 2015, 291, 201-208.	4.0	36
3506	Flexible Boron-Doped Laser-Induced Graphene Microsupercapacitors. ACS Nano, 2015, 9, 5868-5875.	7.3	542
3507	Chemical vapor deposition and atomic layer deposition for advanced lithium ion batteries and supercapacitors. Energy and Environmental Science, 2015, 8, 1889-1904.	15.6	236
3508	Electrochemical studies of CNT/Siâ€“SnSb nanoparticles for lithium ion batteries. Materials Research Bulletin, 2015, 70, 478-485.	2.7	41
3509	One dimensional nickel oxide-decorated cobalt oxide (Co3O4) composites for high-performance supercapacitors. Journal of Electroanalytical Chemistry, 2015, 749, 89-95.	1.9	19
3510	Carbon Nitrogen Nanotubes as Efficient Bifunctional Electrocatalysts for Oxygen Reduction and Evolution Reactions. ACS Applied Materials & Interfaces, 2015, 7, 11991-12000.	4.0	120

#	Article	IF	Citations
3511	Enhanced Performance of nano-Bi2WO6-Graphene as Pseudocapacitor Electrodes by Charge Transfer Channel. Scientific Reports, 2015, 5, 8624.	1.6	22
3512	Coaxial lithography. Nature Nanotechnology, 2015, 10, 319-324.	15.6	97
3513	Polypyrrole encapsulation on flower-like porous NiO for advanced high-performance supercapacitors. Chemical Communications, 2015, 51, 7669-7672.	2.2	110
3514	Designed hybrid nanostructure with catalytic effect: beyond the theoretical capacity of SnO2 anode material for lithium ion batteries. Scientific Reports, 2015, 5, 9164.	1.6	119
3515	The Optimized Tin Dioxide-Carbon Nanocomposites as High-performance Anode for Lithium ion Battery with a long cycle life. Electrochimica Acta, 2015, 167, 69-74.	2.6	14
3516	Hierarchical micro-architectures of electrodes for energy storage. Journal of Power Sources, 2015, 284, 435-445.	4.0	70
3518	Ternary metal fluorides as high-energy cathodes with low cycling hysteresis. Nature Communications, 2015, 6, 6668.	5.8	138
3519	Manganese dioxide nanoparticle enrichment in porous conducting polymer as high performance supercapacitor electrode materials. Electrochimica Acta, 2015, 165, 323-329.	2.6	49
3520	Bowl-like sulfur particles wrapped by graphene oxide as cathode material of lithiumâ€“sulfur batteries. RSC Advances, 2015, 5, 28832-28835.	1.7	12
3521	Self-assembled graphene-constructed hollow Fe₂O₃ spheres with controllable size for high lithium storage. RSC Advances, 2015, 5, 21740-21744.	1.7	13
3522	In situ strain evolution during a disconnection event in a battery nanoparticle. Physical Chemistry Chemical Physics, 2015, 17, 10551-10555.	1.3	40
3523	Stannous sulfate as an electrolyte additive for lead acid battery made from a novel ultrafine leady oxide. Journal of Power Sources, 2015, 285, 485-492.	4.0	16
3524	Ultralong SrLi2Ti6O14 nanowires composed of single-crystalline nanoparticles: Promising candidates for high-power lithium ions batteries. Nano Energy, 2015, 13, 18-27.	8.2	79
3525	Fast and reversible hydrogen sensing properties of Pd/Mg thin film modified by hydrophobic porous silicon substrate. Sensors and Actuators B: Chemical, 2015, 213, 252-260.	4.0	43
3526	Lamellar K2Co3(P2O7)2Â·2H2O nanocrystal whiskers: High-performance flexible all-solid-state asymmetric micro-supercapacitors via inkjet printing. Nano Energy, 2015, 15, 303-312.	8.2	170
3527	Pore collapse and regrowth in silicon electrodes for rechargeable batteries. Physical Chemistry Chemical Physics, 2015, 17, 11301-11312.	1.3	26
3528	Carbothermal synthesis of metal-functionalized nanostructures for energy and environmental applications. Journal of Materials Chemistry A, 2015, 3, 13114-13188.	5.2	206
3529	Antiferroelectric Materials, Applications and Recent Progress on Multiferroic Heterostructures. Spin, 2015, 05, 1530001.	0.6	27

#	Article	IF	Citations
3530	Fast lithium-ion storage of Nb₂O₅ nanocrystals in situ grown on carbon nanotubes for high-performance asymmetric supercapacitors. RSC Advances, 2015, 5, 41179-41185.	1.7	51
3531	Rational synthesis of ZnMn₂O₄ porous spheres and graphene nanocomposite with enhanced performance for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 11430-11436.	5.2	57
3532	Silicon anode supported by carbon scaffold for high performance lithium ion micro-battery. , 2015, , .		5
3533	Metal hydride-based materials towards high performance negative electrodes for all-solid-state lithium-ion batteries. Chemical Communications, 2015, 51, 9773-9776.	2.2	64
3534	An â€œall-in-oneâ€•mesh-typed integrated energy unit for both photoelectric conversion and energy storage in uniform electrochemical system. Nano Energy, 2015, 13, 670-678.	8.2	54
3535	Fast Li+ Self-Diffusion in Amorphous Liâ€“Si Electrochemically Prepared from Semiconductor Grade, Monocrystalline Silicon: Insights from Spin-Locking Nuclear Magnetic Relaxometry. Journal of Physical Chemistry C, 2015, 119, 12183-12192.	1.5	19
3536	Graphene Nanoplatelets with Selectively Functionalized Edges as Electrode Material for Electrochemical Energy Storage. Langmuir, 2015, 31, 5676-5683.	1.6	33
3537	Growth of Hierarchal Mesoporous NiO Nanosheets on Carbon Cloth as Binder-free Anodes for High-performance Flexible Lithium-ion Batteries. Scientific Reports, 2014, 4, 7413.	1.6	119
3538	Novel aligned sodium vanadate nanowire arrays for high-performance lithium-ion battery electrodes. RSC Advances, 2015, 5, 42955-42960.	1.7	26
3539	MnO-carbon hybrid nanofiber composites as superior anode materials for lithium-ion batteries. Electrochimica Acta, 2015, 170, 164-170.	2.6	57
3540	Metal-Free Catalysts for Oxygen Reduction Reaction. Chemical Reviews, 2015, 115, 4823-4892.	23.0	2,083
3541	Preparation of NiCo2S4 flaky arrays on Ni foam as binder-free supercapacitor electrode. Applied Surface Science, 2015, 347, 690-695.	3.1	93
3542	Efficient charge transport of a radical polyether/SWCNT composite electrode for an organic radical battery with high charge-storage density. RSC Advances, 2015, 5, 15448-15452.	1.7	60
3543	An Electrochemical Cell for Selective Lithium Capture from Seawater. Environmental Science & Technology, 2015, 49, 9415-9422.	4.6	74
3544	Band edge engineering of TiO₂@DNA nanohybrids and implications for capacitive energy storage devices. Nanoscale, 2015, 7, 10438-10448.	2.8	37
3545	Synthesis of nickel carbonate hydroxide@zeolitic imidazolate framework-67 (Ni2CO3(OH)2@ZIF-67) for pseudocapacitor applications. Journal of Applied Electrochemistry, 2015, 45, 541-547.	1.5	19
3546	A Mo-doped TiNb₂O₇ anode for lithium-ion batteries with high rate capability due to charge redistribution. Chemical Communications, 2015, 51, 9849-9852.	2.2	125
3547	Scalable Synthesis of Freestanding Sandwich-structured Graphene/Polyaniline/Graphene Nanocomposite Paper for Flexible All-Solid-State Supercapacitor. Scientific Reports, 2015, 5, 9359.	1.6	147

#	Article	IF	Citations
3548	Porous Flower-like Î±-Fe2O3 Nanostructure: A High Performance Anode Material for Lithium-ion Batteries. Electrochimica Acta, 2015, 167, 330-339.	2.6	86
3549	Preparation of La2NiO4+Î´ powders as a cathode material for SOFC via a PVP-assisted hydrothermal route. Journal of Solid State Electrochemistry, 2015, 19, 957-965.	1.2	5
3550	Microstructure control of the graphite anode with a high density for Li ion batteries with high energy density. Electrochimica Acta, 2015, 166, 367-371.	2.6	28
3551	Mesoporous CuCo₂O₄ nanograsses as multi-functional electrodes for supercapacitors and electro-catalysts. Journal of Materials Chemistry A, 2015, 3, 9769-9776.	5.2	192
3552	Conducting polymers and their inorganic composites for advanced Li-ion batteries: a review. RSC Advances, 2015, 5, 42109-42130.	1.7	157
3553	Systematic increase of electrocatalytic turnover at nanoporous platinum surfaces prepared by atomic layer deposition. Journal of Materials Chemistry A, 2015, 3, 8450-8458.	5.2	19
3554	Interconnected Nanorodsâ€“Nanoflakes Li₂Co₂(MoO₄)₃ Framework Structure with Enhanced Electrochemical Properties for Supercapacitors. Advanced Energy Materials, 2015, 5, 1500060.	10.2	42
3555	Alkali-Templated Surface Nanopatterning of Chalcogenide Thin Films: A Novel Approach Toward Solar Cells with Enhanced Efficiency. Nano Letters, 2015, 15, 3334-3340.	4.5	108
3556	Engineering Mixed Ionic Electronic Conduction in La_{0.8}Sr_{0.2}MnO_{3+Î´} Nanostructures through Fast Grain Boundary Oxygen Diffusivity. Advanced Energy Materials, 2015, 5, 1500377.	10.2	75
3557	Cobalt sulfide nanosheets coated on NiCo₂S₄ nanotube arrays as electrode materials for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 10492-10497.	5.2	161
3558	Graphene nanoribbon wrapped cobalt manganite nanocubes for high performance all-solid-state flexible supercapacitors. Journal of Materials Chemistry A, 2015, 3, 9925-9931.	5.2	58
3559	Reversible oxygen scavenging at room temperature using electrochemically reduced titanium oxide nanotubes. Nature Nanotechnology, 2015, 10, 418-422.	15.6	69
3560	Perspectives of energy materials grown by APCVD. Solar Energy Materials and Solar Cells, 2015, 140, 1-8.	3.0	39
3561	Fabrication of Cu-coated TiO2 nanotubes and enhanced electrochemical performance of lithium ion batteries. Journal of Electroanalytical Chemistry, 2015, 744, 45-52.	1.9	31
3562	On the interaction of water-soluble binders and nano silicon particles: alternative binder towards increased cycling stability at elevated temperatures. Physical Chemistry Chemical Physics, 2015, 17, 5632-5641.	1.3	33
3563	Interconnected MnO2 nanoflakes assembled on graphene foam as a binder-free and long-cycle life lithium battery anode. Carbon, 2015, 92, 177-184.	5.4	78
3564	Synthesis and elucidation of electrochemical characteristics of nanorods, microsized and nanosized CuO as cathode materials for Zn/CuO alkaline battery. Journal of Solid State Electrochemistry, 2015, 19, 2155-2165.	1.2	5
3565	Creating high quality Ca:TiO₂-B (CaTi₅O₁₁) and TiO₂-B epitaxial thin films by pulsed laser deposition. Chemical Communications, 2015, 51, 8584-8587.	2.2	15

#	Article	IF	Citations
3568	Nanostructured transition metal oxides as advanced anodes for lithium-ion batteries. Science Bulletin, 2015, 60, 823-838.	4.3	217
3569	Folded three-dimensional graphene with uniformly distributed mesopores for high-performance supercapacitors. RSC Advances, 2015, 5, 33767-33771.	1.7	4
3570	Triboelectric Charging Sequence Induced by Surface Functionalization as a Method To Fabricate High Performance Triboelectric Generators. ACS Nano, 2015, 9, 4621-4627.	7.3	216
3571	Synthesis of a Coâ€“Ni doped LiMn2O4 spinel cathode material for high-power Li-ion batteries by a solâ€“gel mediated solid-state route. Journal of Alloys and Compounds, 2015, 640, 82-89.	2.8	50
3572	Plate-like LiFePO 4 /C composite with preferential (010) lattice plane synthesized by cetyltrimethylammonium bromide-assisted hydrothermal carbonization. Journal of Alloys and Compounds, 2015, 651, 34-41.	2.8	18
3573	Composite Gel Electrolytes for Suppressing Lithium Dendrite Growth and Improving Cycling Performance of LiNi_{0.5}Mn_{1.5}O₄Electrodes. Journal of the Electrochemical Society, 2015, 162, A2628-A2634.	1.3	8
3574	Exploring N-Rich Phases in Li_xN_y Clusters for Hydrogen Storage at Nanoscale. Journal of Physical Chemistry Letters, 2015, 6, 3726-3730.	2.1	12
3575	Flexible Hybrid Membranes with Ni(OH)₂ Nanoplatelets Vertically Grown on Electrospun Carbon Nanofibers for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 22669-22677.	4.0	153
3576	The Morphology of TiO₂ (B) Nanoparticles. Journal of the American Chemical Society, 2015, 137, 13612-13623.	6.6	55
3577	Multifunctional high strength and high energy epoxy composite structural supercapacitors with wet-dry operational stability. Journal of Materials Chemistry A, 2015, 3, 20097-20102.	5.2	38
3578	A review of negative electrode materials for electrochemical supercapacitors. Science China Technological Sciences, 2015, 58, 1799-1808.	2.0	84
3579	Synthesis of curved Si flakes using Mg powder as both the template and reductant and their derivatives for lithium-ion batteries. RSC Advances, 2015, 5, 67315-67322.	1.7	5
3580	Incorporating nanoporous polyaniline into layer-by-layer ionic liquidâ€“carbon nanotubeâ€“graphene paper: towards freestanding flexible electrodes with improved supercapacitive performance. Nanotechnology, 2015, 26, 374002.	1.3	26
3581	Enhanced electrochemical performance of carbon-coated TiO2 nanobarbed fibers as anode material for lithium-ion batteries. Electrochemistry Communications, 2015, 60, 204-207.	2.3	18
3582	Self-template processed hierarchical V2O5 nanobelts as cathode for high performance lithium ion battery. Electrochimica Acta, 2015, 182, 621-628.	2.6	28
3583	Hierarchical NiCo₂S₄ hollow spheres as a high performance anode for lithium ion batteries. RSC Advances, 2015, 5, 84711-84717.	1.7	46
3584	Self-assembled novel dandelion-like NiCo₂O₄ microspheres@nanomeshes with superior electrochemical performance for supercapacitors and lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 22393-22403.	5.2	78
3585	Structural and Electrochemical Study of Hierarchical LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 21939-21947.	4.0	95

#	Article	IF	Citations
3586	Coreâ€“shell MnO₂@Fe₂O₃ nanospindles as a positive electrode for aqueous supercapacitors. Journal of Materials Chemistry A, 2015, 3, 22066-22072.	5.2	60
3587	Paper-based devices for energy applications. Renewable and Sustainable Energy Reviews, 2015, 52, 1453-1472.	8.2	92
3588	Materials insights into low-temperature performances of lithium-ion batteries. Journal of Power Sources, 2015, 300, 29-40.	4.0	250
3589	High-performance characteristics of silicon inverse opal synthesized by the simple magnesium reduction as anodes for lithium-ion batteries. Journal of Power Sources, 2015, 300, 182-189.	4.0	39
3590	Hierarchical nanosheet-based CoMoO₄â€“NiMoO₄nanotubes for applications in asymmetric supercapacitors and the oxygen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 22750-22758.	5.2	140
3591	Exploration and progress of high-energy supercapacitors and related electrode materials. Science China Technological Sciences, 2015, 58, 1851-1863.	2.0	15
3592	Lithium Intercalation in Graphene/MoS₂ Composites: First-Principles Insights. Journal of Physical Chemistry C, 2015, 119, 25860-25867.	1.5	78
3593	Elastic Reduced Graphene Oxide Nanosheets Embedded in Germanium Nanofiber Matrix as Anode Material for High-Performance Li-Ion Battery. Electrochimica Acta, 2015, 186, 64-70.	2.6	26
3594	Anodic oxidization of Tiâ€“Niâ€“Si amorphous alloy ribbons and their capacitive and resistive properties. Thin Solid Films, 2015, 595, 1-4.	0.8	5
3595	Recent advances in surface and interface engineering for electrocatalysis. Chinese Journal of Catalysis, 2015, 36, 1476-1493.	6.9	48
3596	Ultrafine Iron Pyrite (FeS₂) Nanocrystals Improve Sodiumâ€“Sulfur and Lithiumâ€“Sulfur Conversion Reactions for Efficient Batteries. ACS Nano, 2015, 9, 11156-11165.	7.3	270
3597	Bio-inspired formation of nanostructured arrays on flexible substrates with superoleophobicity. CrystEngComm, 2015, 17, 8441-8448.	1.3	7
3598	Si Nanoparticles Intercalated into Interlayers of Slightly Exfoliated Graphite filled by Carbon as Anode with High Volumetric Capacity for Lithium-ion Battery. Electrochimica Acta, 2015, 184, 364-370.	2.6	24
3599	Hierarchical MnO2 nanosheet arrays on carbon fiber for high-performance pseudocapacitors. Journal of Electroanalytical Chemistry, 2015, 759, 95-100.	1.9	12
3600	Hollow Nanostructured Metal Silicates with Tunable Properties for Lithium Ion Battery Anodes. ACS Applied Materials & Interfaces, 2015, 7, 25725-25732.	4.0	71
3601	General Synthesis of MnOx (MnO2, Mn2O3, Mn3O4, MnO) Hierarchical Microspheres as Lithium-ion Battery Anodes. Electrochimica Acta, 2015, 184, 250-256.	2.6	152
3602	Catalytic hydrogen generation from hydrolysis of ammonia borane using octahedral Au@Pt nanoparticles. International Journal of Hydrogen Energy, 2015, 40, 16316-16322.	3.8	24
3603	Characterization of modified SiC@SiO₂ nanocables/MnO₂ and their potential application as hybrid electrodes for supercapacitors. Dalton Transactions, 2015, 44, 19974-19982.	1.6	22

#	Article	IF	Citations
3604	Self-Assembly of Charged Nanoparticles by an Autocatalytic Reaction Front. Langmuir, 2015, 31, 12019-12024.	1.6	10
3605	Sub-micron Polymerâ€“Zeolitic Imidazolate Framework Layered Hybrids via Controlled Chemical Transformation of Naked ZnO Nanocrystal Films. Chemistry of Materials, 2015, 27, 7673-7679.	3.2	45
3606	Simultaneous Purification and Perforation of Low-Grade Si Sources for Lithium-Ion Battery Anode. Nano Letters, 2015, 15, 7742-7747.	4.5	62
3607	Nanoporous iron oxide@carbon composites with low carbon content as high-performance anodes for lithium-ion batteries. RSC Advances, 2015, 5, 89092-89098.	1.7	5
3608	Coreâ€“shell nanospherical polypyrrole/graphene oxide composites for high performance supercapacitors. RSC Advances, 2015, 5, 91645-91653.	1.7	73
3609	Challenges in Accommodating Volume Change of Si Anodes for Liâ€Ion Batteries. ChemElectroChem, 2015, 2, 1645-1651.	1.7	204
3610	Factors Contributing to Path Hysteresis of Displacement and Conversion Reactions in Li Ion Batteries. Chemistry of Materials, 2015, 27, 7593-7600.	3.2	27
3611	Preparation of chestnut-like porous NiO nanospheres as electrodes for supercapacitors. RSC Advances, 2015, 5, 96165-96169.	1.7	41
3612	3D hierarchically porous zincâ€“nickelâ€“cobalt oxide nanosheets grown on Ni foam as binder-free electrodes for electrochemical energy storage. Journal of Materials Chemistry A, 2015, 3, 24022-24032.	5.2	67
3613	Pure Nanoscale Morphology Effect Enhancing the Energy Storage Characteristics of Processable Hierarchical Polypyrrole. Langmuir, 2015, 31, 11904-11913.	1.6	24
3614	Electrochemical Properties of Chemically Etched-NbO₂ as a Negative Electrode Material for Lithium Ion Batteries. Advanced Materials Research, 0, 1120-1121, 115-118.	0.3	6
3615	A facile reflux procedure to increase active surface sites form highly active and durable supported palladium@platinum bimetallic nanodendrites. Journal of Power Sources, 2015, 297, 59-67.	4.0	22
3616	Self-assembled LiNi1/3Co1/3Mn1/3O2 nanosheet cathodes with tunable rate capability. Nano Energy, 2015, 17, 36-42.	8.2	105
3617	Flexible Nitrogen Doped SiC Nanoarray for Ultrafast Capacitive Energy Storage. ACS Nano, 2015, 9, 8054-8063.	7.3	75
3618	The dispersion state of magnetic nanorods in homopolymers and block copolymers. Journal of Chemical Physics, 2015, 142, 184903.	1.2	3
3619	Preparation and characterization of SPION functionalized via caffeic acid. Journal of Magnetism and Magnetic Materials, 2015, 395, 199-204.	1.0	34
3620	Y-doped Li₈ZrO₆: A Li-Ion Battery Cathode Material with High Capacity. Journal of the American Chemical Society, 2015, 137, 10992-11003.	6.6	54
3621	Flux growth of hexagonal cylindrical LiCoO₂crystals surrounded by Li-ion conducting preferential facets and their electrochemical properties studied by single-particle measurements. Journal of Materials Chemistry A, 2015, 3, 17016-17021.	5.2	20

#	Article	IF	Citations
3622	Ab initio study of radiation effects on the Li4Ti5O12 electrode used in lithium-ion batteries. AIP Advances, 2015, 5, .	0.6	11
3623	Size-controlled nickel oxide nanoparticle synthesis using mesoporous silicon thin films. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	11
3624	Mechanisms of LiCoO₂ Cathode Degradation by Reaction with HF and Protection by Thin Oxide Coatings. ACS Applied Materials & Interfaces, 2015, 7, 24265-24278.	4.0	98
3625	Conductive polymer-mediated 2D and 3D arrays of Mn3O4 nanoblocks and mesoporous conductive polymers as their replicas. Nanoscale, 2015, 7, 18471-18476.	2.8	5
3626	Microwave-assisted rapid synthesis of mesoporous nanostructured ZnCo₂O₄ anode materials for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 24303-24308.	5.2	34
3627	Heterogeneous Nanostructures for Sodium Ion Batteries and Supercapacitors. ChemNanoMat, 2015, 1, 458-476.	1.5	28
3628	Porous ZnMn2O4 nanowires as an advanced anode material for lithium ion battery. Electrochimica Acta, 2015, 182, 1140-1144.	2.6	51
3629	Preparation of a Î³â€Fe₂O₃/Ag Nanowire Coaxial Nanocable for Highâ€Performance Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2015, 21, 11129-11133.	1.7	24
3630	Threeâ€Dimensional Nitrogenâ€Doped Hierarchical Porous Carbon as an Electrode for Highâ€Performance Supercapacitors. Chemistry - A European Journal, 2015, 21, 17293-17298.	1.7	63
3631	The electrochemical performance of transition metal and graphene added Li3V2(PO4)3 cathode material for Li-ion Batteries. Materials Letters, 2015, 160, 194-199.	1.3	6
3632	Synthesis of rGO-Fe3O4-SnO2-C Quaternary Hybrid Mesoporous Nanosheets as a High-performance Anode Material for Lithium Ion Batteries. Electrochimica Acta, 2015, 182, 715-722.	2.6	24
3633	Aligned polyaniline nanowires grown on the internal surface of macroporous carbon for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 23307-23315.	5.2	77
3634	Reviewâ€"Advances in Anode and Electrolyte Materials for the Progress of Lithium-Ion and beyond Lithium-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A2582-A2588.	1.3	104
3635	Super long-life supercapacitor electrode materials based on hierarchical porous hollow carbon microcapsules. RSC Advances, 2015, 5, 87077-87083.	1.7	21
3636	Nitrogen-enriched porous carbon nanorods templated by cellulose nanocrystals as high performance supercapacitor electrodes. Journal of Materials Chemistry A, 2015, 3, 23768-23777.	5.2	87
3637	Facile synthesis of nanostructured TiNb₂O₇ anode materials with superior performance for high-rate lithium ion batteries. Chemical Communications, 2015, 51, 17293-17296.	2.2	108
3638	Lithiation of Rutile TiO₂-Coated Si NWs Observed by in Situ TEM. Chemistry of Materials, 2015, 27, 6929-6933.	3.2	17
3639	Reviewâ€"Understanding and Mitigating Some of the Key Factors that Limit Non-Aqueous Lithium-Air Battery Performance. Journal of the Electrochemical Society, 2015, 162, A2439-A2446.	1.3	27

#	Article	IF	Citations
3640	Structurally Ordered Pt₃Cr as Oxygen Reduction Electrocatalyst: Ordering Control and Origin of Enhanced Stability. Chemistry of Materials, 2015, 27, 7538-7545.	3.2	93
3641	Hierarchical Co@C Nanoflowers: Synthesis and Electrochemical Properties as an Advanced Negative Material for Alkaline Secondary Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23978-23983.	4.0	19
3642	Layered double hydroxides toward electrochemical energy storage and conversion: design, synthesis and applications. Chemical Communications, 2015, 51, 15880-15893.	2.2	361
3643	Characterization of thin films of the solid electrolyte Li_xMg_{1â"2x}Al_{2+x}O₄ (x = 0, 0.05, 0.15, 0.25). Physical Chemistry Chemical Physics, 2015, 17, 29045-29056.	1.3	8
3644	A hybrid gel of hypergravity prepared NiO and polyaniline as Li-ion battery anodes. RSC Advances, 2015, 5, 88419-88424.	1.7	7
3645	Single-crystalline Ni(OH)2nanosheets vertically aligned on a three-dimensional nanoporous metal for high-performance asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 23412-23419.	5.2	45
3646	Conversion of Î±-Fe2O3 from spindle nanorods to nanotubes, and their lithium-storage performance. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 202, 15-24.	1.7	19
3647	Spray-On Polyaniline/Poly(acrylic acid) Electrodes with Enhanced Electrochemical Stability. ACS Applied Materials & Interfaces, 2015, 7, 24150-24158.	4.0	29
3648	Electrodeposition of high-capacitance 3D CoS/graphene nanosheets on nickel foam for high-performance aqueous asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 20619-20626.	5.2	301
3649	Can the Degree of Crystallinity of Ball Milled Mg₂Ni Intermetallic Compound Decide its Electrochemical Characteristics?. Journal of Nano Research, 2015, 33, 137-149.	0.8	0
3650	Design of polymers with an intrinsic disordered framework for Li-ion conducting solid polymer electrolytes. Polymer, 2015, 75, 10-16.	1.8	8
3651	A Hybrid DNA-Templated Gold Nanocluster For Enhanced Enzymatic Reduction of Oxygen. Journal of the American Chemical Society, 2015, 137, 11678-11687.	6.6	128
3652	Doped Si nanoparticles with conformal carbon coating and cyclized-polyacrylonitrile network as high-capacity and high-rate lithium-ion battery anodes. Nanotechnology, 2015, 26, 365401.	1.3	9
3653	Preparation and Electrochemical Characterization of Pt-Supported Flake-like Graphitic Carbon Nitride on Reduced Graphene Oxide as Fuel Cell Catalysts. Journal of the Electrochemical Society, 2015, 162, F1181-F1190.	1.3	19
3654	Sustainable Energy Application. , 2015, , 181-231.		1
3655	Sustainable Energy Application. , 2015, , 233-296.		6
3656	A Novel High-Power Battery-Pseudocapacitor Hybrid Based on Fast Lithium Reactions in Silicon Anode and Titanium Dioxide Cathode Coated on Vertically Aligned Carbon Nanofibers. Electrochimica Acta, 2015, 178, 797-805.	2.6	17
3657	Co3O4 Nanorods with Self-assembled Nanoparticles in Queue for Supercapacitor. Electrochimica Acta, 2015, 180, 104-111.	2.6	84

#	Article	IF	Citations
3658	Solution-combustion synthesized aluminium-doped spinel (LiAl x Mn2â^'x O4) as a high-performance lithium-ion battery cathode material. Applied Physics A: Materials Science and Processing, 2015, 121, 51-57.	1.1	16
3659	Facile fabrication of 3D SnO₂/nitrogen-doped graphene aerogels for superior lithium storage. RSC Advances, 2015, 5, 68822-68828.	1.7	4
3660	Sandwich-like cobalt sulfideâ€“graphene composite â€“ an anode material with excellent electrochemical performance for sodium ion batteries. RSC Advances, 2015, 5, 71644-71651.	1.7	77
3661	Thermally-responsive, nonflammable phosphonium ionic liquid electrolytes for lithium metal batteries: operating at 100 degrees celsius. Chemical Science, 2015, 6, 6601-6606.	3.7	39
3662	Interfacial lattice-strain effects on improving the overall performance of micro-solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 20031-20050.	5.2	81
3663	Binary metal sulfides and polypyrrole on vertically aligned carbon nanotube arrays/carbon fiber paper as high-performance electrodes. Journal of Materials Chemistry A, 2015, 3, 22043-22052.	5.2	36
3664	Flexible all-solid-state asymmetric supercapacitor assembled using coaxial NiMoO 4 nanowire arrays with chemically integrated conductive coatingâ€. Electrochimica Acta, 2015, 178, 429-438.	2.6	66
3665	Porous Hierarchical Nitrogen-doped Carbon Coated ZnFe2O4 Composites as High Performance Anode Materials for Lithium Ion Batteries. Electrochimica Acta, 2015, 180, 622-628.	2.6	56
3666	High power organic cathodes using thin films of electropolymerized benzidine polymers. Chemical Communications, 2015, 51, 14674-14677.	2.2	12
3667	Graphene-carbon nanotube papers for energy conversion and storage under sunlight and heat. Carbon, 2015, 95, 150-156.	5.4	24
3668	Synthesis of CNT@Fe3O4-C hybrid nanocables as anode materials with enhanced electrochemical performance for lithium ion batteries. Electrochimica Acta, 2015, 176, 1332-1337.	2.6	61
3669	Carbon nanotube-supported Cu₃N nanocrystals as a highly active catalyst for oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 18983-18990.	5.2	52
3670	Ternary nickel cobaltite nanostructures for energy conversion. Functional Materials Letters, 2015, 08, 1530002.	0.7	8
3671	Janus Solidâ€“Liquid Interface Enabling Ultrahigh Charging and Discharging Rate for Advanced Lithium-Ion Batteries. Nano Letters, 2015, 15, 6102-6109.	4.5	90
3672	A Group of Cyclic Siloxane and Silazane Polymer Films as Nanoscale Electrolytes for Microbattery Architectures. Macromolecules, 2015, 48, 5222-5229.	2.2	27
3673	A nanoporous metal recuperated MnO₂anode for lithium ion batteries. Nanoscale, 2015, 7, 15111-15116.	2.8	58
3674	Review and prospects of Mn-based spinel compounds as cathode materials for lithium-ion batteries. Ionics, 2015, 21, 3001-3030.	1.2	45
3675	Ion Dynamics in Solid Electrolytes: NMR Reveals the Elementary Steps of Li⁺ Hopping in the Garnet Li_{6.5}La₃Zr_{1.75}Mo_{0.25}O₁₂. Chemistry of Materials, 2015, 27, 6571-6582.	3.2	60

#	Article	IF	Citations
3676	Nano-composite LiMnPO4 as new insertion electrode for electrochemical supercapacitors. Current Applied Physics, 2015, 15, 1624-1633.	1.1	13
3677	Improved Cycle Life and Stability of Lithium Metal Anodes through Ultrathin Atomic Layer Deposition Surface Treatments. Chemistry of Materials, 2015, 27, 6457-6462.	3.2	299
3678	Nonstoichiometric Oxides as Low-Cost and Highly-Efficient Oxygen Reduction/Evolution Catalysts for Low-Temperature Electrochemical Devices. Chemical Reviews, 2015, 115, 9869-9921.	23.0	770
3679	Mesoporous carbons: recent advances in synthesis and typical applications. RSC Advances, 2015, 5, 83239-83285.	1.7	147
3680	Boron-doped onion-like carbon with enriched substitutional boron: the relationship between electronic properties and catalytic performance. Journal of Materials Chemistry A, 2015, 3, 21805-21814.	5.2	81
3682	Effect of Microstructure and Morphology of Electrospun Ultra-Small Carbon Nanofibers on Anode Performances for Lithium Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A1085-A1093.	1.3	36
3683	Spherical nano-Sb@C composite as a high-rate and ultra-stable anode material for sodium-ion batteries. Nano Research, 2015, 8, 3384-3393.	5.8	165
3684	One-pot high temperature hydrothermal synthesis of Fe3O4@C/graphene nanocomposite as anode for high rate lithium ion battery. Electrochimica Acta, 2015, 180, 1041-1049.	2.6	36
3685	Layer-by-layer grown scalable redox-active ruthenium-based molecular multilayer thin films for electrochemical applications and beyond. Nanoscale, 2015, 7, 17685-17692.	2.8	32
3686	Rare earth ferrites LuFe 2 O 4Â±x polymorphism, polytypism and metastable phases. Solid State Sciences, 2015, 48, A1-A16.	1.5	7
3687	Perforated Metal Oxideâ€“Carbon Nanotube Composite Microspheres with Enhanced Lithium-Ion Storage Properties. ACS Nano, 2015, 9, 10173-10185.	7.3	91
3688	Hybrid Cellular Nanosheets for High-Performance Lithium-Ion Battery Anodes. Journal of the American Chemical Society, 2015, 137, 11954-11961.	6.6	114
3689	MoS₂â€“graphene nanosheetâ€“CNT hybrids with excellent electrochemical performances for lithium-ion batteries. RSC Advances, 2015, 5, 77518-77526.	1.7	52
3690	MnO₂-based nanostructures for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 21380-21423.	5.2	817
3691	Free-standing high-voltage LiCoO₂/multi-wall carbon nanotube paper electrodes with extremely high areal mass loading for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 23180-23184.	5.2	26
3692	Three-dimensional CoS2/RGO hierarchical architecture as superior-capability anode for lithium ion batteries. RSC Advances, 2015, 5, 71790-71795.	1.7	45
3693	Nanosized Pt anchored onto 3D nitrogen-doped graphene nanoribbons towards efficient methanol electrooxidation. Journal of Materials Chemistry A, 2015, 3, 19696-19701.	5.2	60
3694	An electrospun hierarchical LiV3O8 nanowire-in-network for high-rate and long-life lithium batteries. Journal of Materials Chemistry A, 2015, 3, 19850-19856.	5.2	61

#	Article	IF	Citations
3695	A new approach to synthesize MoO₂@C for high-rate lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 21314-21320.	5.2	72
3696	RF-PECVD synthesis of carbon nanowalls and their field emission properties. Applied Surface Science, 2015, 357, 1-7.	3.1	42
3697	Computational Study of Pressure-Driven Gas Transport in Nanostructured Carbons: An Alternative Approach. Journal of Physical Chemistry B, 2015, 119, 12299-12307.	1.2	10
3698	Advances of graphene application in electrode materials for lithium ion batteries. Science China Technological Sciences, 2015, 58, 1829-1840.	2.0	17
3699	3D interconnected porous NiMoO₄ nanoplate arrays on Ni foam as high-performance binder-free electrode for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 22081-22087.	5.2	98
3700	The energy-chemistry nexus: A vision of the future from sustainability perspective. Journal of Energy Chemistry, 2015, 24, 535-547.	7.1	52
3701	Controllable synthesis of micro/nano-structured MnCo₂O₄ with multiporous coreâ€“shell architectures as high-performance anode materials for lithium-ion batteries. New Journal of Chemistry, 2015, 39, 8416-8423.	1.4	21
3702	La₂O₂CO₃ Encapsulated La₂O₃ Nanoparticles Supported on Carbon as Superior Electrocatalysts for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2015, 7, 26914-26922.	4.0	77
3703	Ultrafast, low temperature microwave-assisted solvothermal synthesis of nanostructured lithium iron phosphate optimized by a chemometric approach. Electrochimica Acta, 2015, 184, 381-386.	2.6	12
3704	Synthesis of NiCoP hollow spheres and its electrochemical property. Chemical Physics Letters, 2015, 638, 52-55.	1.2	16
3705	Carbon-coated manganese silicate exhibiting excellent rate performance and high-rate cycling stability for lithium-ion storage. Electrochimica Acta, 2015, 186, 572-578.	2.6	28
3706	The large electrochemical capacitance of nitrogen-doped mesoporous carbon derived from egg white by using a ZnO template. RSC Advances, 2015, 5, 98177-98183.	1.7	19
3707	Synthesis of ternary graphene/molybdenum oxide/poly(p-phenylenediamine) nanocomposites for symmetric supercapacitors. RSC Advances, 2015, 5, 98278-98287.	1.7	23
3708	Synthesis and characterization of oriented linked LiFePO4 nanoparticles with fast electron and ion transport for high-power lithium-ion batteries. Nano Research, 2015, 8, 3803-3814.	5.8	25
3709	Multi-dimensional construction of a novel active yolk@conductive shell nanofiber web as a self-standing anode for high-performance lithium-ion batteries. Nanoscale, 2015, 7, 19930-19934.	2.8	13
3710	Synthesis of highly durable sulfur doped graphite nanoplatelet electrocatalyst by a fast and simple wet ball milling process. Materials Letters, 2015, 161, 399-403.	1.3	13
3711	Electrochemically Functionalized Seamless Three-Dimensional Graphene-Carbon Nanotube Hybrid for Direct Electron Transfer of Glucose Oxidase and Bioelectrocatalysis. Langmuir, 2015, 31, 13054-13061.	1.6	61
3712	Î³-Fe₂O₃ Nanocrystalline Microspheres with Hybrid Behavior of Battery-Supercapacitor for Superior Lithium Storage. ACS Applied Materials & Interfaces, 2015, 7, 26284-26290.	4.0	58

#	Article	IF	Citations
3713	Porous nanoarchitectures of spinel-type transition metal oxides for electrochemical energy storage systems. Physical Chemistry Chemical Physics, 2015, 17, 30963-30977.	1.3	142
3714	Graphene Supported Ni-based Nanocomposites as Electrode Materials with High Capacitance. Electrochimica Acta, 2015, 155, 69-77.	2.6	13
3715	Compressible graphene aerogel supported CoO nanostructures as a binder-free electrode for high-performance lithium-ion batteries. RSC Advances, 2015, 5, 8929-8932.	1.7	32
3716	Carbon innercoated ordered porous TiO2 as anode materials for lithium-ion batteries. Ionics, 2015, 21, 1553-1559.	1.2	9
3717	Building sponge-like robust architectures of CNTâ€“grapheneâ€“Si composites with enhanced rate and cycling performance for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 3962-3967.	5.2	51
3718	Oxidative Intercalation for Monometallic Ni²⁺-Ni³⁺Layered Double Hydroxide and Enhanced Capacitance in Exfoliated Nanosheets. Small, 2015, 11, 2044-2050.	5.2	48
3719	Electrochemical stability of optimized Si/C composites anode for lithium-ion batteries. Ionics, 2015, 21, 579-585.	1.2	20
3720	Polyaniline/partially exfoliated multi-walled carbon nanotubes based nanocomposites for supercapacitors. Electrochimica Acta, 2015, 155, 402-410.	2.6	76
3721	Fabrication of 3D Coreâ€“Shell Multiwalled Carbon Nanotube@RuO₂ Lithium-Ion Battery Electrodes through a RuO₂ Atomic Layer Deposition Process. ACS Nano, 2015, 9, 464-473.	7.3	62
3722	Graphene-based materials for flexible electrochemical energy storage. International Journal of Energy Research, 2015, 39, 727-740.	2.2	72
3723	Hydrogen-Enriched Reduced Graphene Oxide with Enhanced Electrochemical Performance in Lithium Ion Batteries. Chemistry of Materials, 2015, 27, 266-275.	3.2	53
3724	The effect of graphene on the performance of an electrochemical flow capacitor. Journal of Materials Chemistry A, 2015, 3, 2717-2725.	5.2	26
3725	Additive-free thick graphene film as an anode material for flexible lithium-ion batteries. Nanoscale, 2015, 7, 7065-7071.	2.8	46
3726	Hybrid annealing method synthesis of Li[Li_{0.2}Ni_{0.2}Mn_{0.6}]O₂ composites with enhanced electrochemical performance for lithium-ion batteries. RSC Advances, 2015, 5, 3352-3357.	1.7	2
3727	Free-standing Fe2O3 nanomembranes enabling ultra-long cycling life and high rate capability for Li-ion batteries. Scientific Reports, 2014, 4, 7452.	1.6	83
3728	Graphene oxide wrapped hierarchical porous carbonâ€“sulfur composite cathode with enhanced cycling and rate performance for lithium sulfur batteries. RSC Advances, 2015, 5, 5516-5522.	1.7	29
3729	Effect of catalytic graphitization on the electrochemical behavior of wood derived carbons for use in supercapacitors. Journal of Power Sources, 2015, 278, 18-26.	4.0	101
3730	Supercapacitors Performance Evaluation. Advanced Energy Materials, 2015, 5, 1401401.	10.2	1,090

#	Article	IF	Citations
3731	Thermodynamic stability and correlation with synthesis conditions, structure and phase transformations in orthorhombic and monoclinic Li₂M(SO₄)₂ (M) Tj ETQq0 0 0 rgBT /Overlock 1	5.2	22
3732	Hierarchical NiCo₂O₄Nanosheets Grown on Ni Nanofoam as High-Performance Electrodes for Supercapacitors. Small, 2015, 11, 804-808.	5.2	232
3733	Confined distribution of conductive particles in polyvinylidene fluoride-based multilayered dielectrics: Toward high permittivity and breakdown strength. Carbon, 2015, 84, 355-364.	5.4	89
3734	Multilayered silicon embedded porous carbon/graphene hybrid film as a high performance anode. Carbon, 2015, 84, 434-443.	5.4	144
3735	Spray-Assisted Deep-Frying Process for the In Situ Spherical Assembly of Graphene for Energy-Storage Devices. Chemistry of Materials, 2015, 27, 457-465.	3.2	92
3736	A flexible spiral-type supercapacitor based on ZnCo₂O₄ nanorod electrodes. Nanoscale, 2015, 7, 1921-1926.	2.8	228
3737	Shaped-controlled synthesis of porous NiCo₂O₄ with 1-3 dimensional hierarchical nanostructures for high-performance supercapacitors. RSC Advances, 2015, 5, 1697-1704.	1.7	41
3738	Conducting additive-free amorphous GeO₂/C composite as a high capacity and long-term stability anode for lithium ion batteries. Nanoscale, 2015, 7, 2552-2560.	2.8	62
3739	Multi-walled carbon nanotubes composited with nanomagnetite for anodes in lithium ion batteries. RSC Advances, 2015, 5, 7237-7244.	1.7	34
3740	Development of hybrid materials based on sponge supported reduced graphene oxide and transition metal hydroxides for hybrid energy storage devices. Scientific Reports, 2014, 4, 7349.	1.6	85
3741	Porous and Shapeâ€Anisotropic Single Crystals of the Semiconductor Perovskite CH₃NH₃PbI₃ from a Singleâ€Source Precursor. Angewandte Chemie - International Edition, 2015, 54, 1341-1346.	7.2	54
3742	Enhanced methanol electro-oxidation over in-situ carbon and graphene supported one dimensional NiMoO 4 nanorods. Journal of Power Sources, 2015, 277, 350-359.	4.0	113
3743	Micro-sized nano-porous Si/C anodes for lithium ion batteries. Nano Energy, 2015, 11, 490-499.	8.2	253
3744	Porous poly(3,4-ethylenedioxythiophene) nanoarray used for flexible supercapacitor. Microporous and Mesoporous Materials, 2015, 204, 163-172.	2.2	54
3745	Facile Fabrication of Binder-free Metallic Tin Nanoparticle/Carbon Nanofiber Hybrid Electrodes for Lithium-ion Batteries. Electrochimica Acta, 2015, 153, 468-475.	2.6	50
3746	Metal-organic chemical vapor-deposited cobalt oxide films as negative electrodes for thin film Li-ion battery. Journal of Power Sources, 2015, 277, 198-204.	4.0	16
3747	Chemical Vapor Synthesized WS2-Embedded Polystyrene-derived Porous Carbon as Superior Long-term Cycling Life Anode Material for Li-ion Batteries. Electrochimica Acta, 2015, 153, 49-54.	2.6	33
3748	Bulk graphdiyne powder applied for highly efficient lithium storage. Chemical Communications, 2015, 51, 1834-1837.	2.2	178

#	Article	IF	Citations
3749	Coreâ€“Shell LiFePO₄/Carbonâ€Coated Reduced Graphene Oxide Hybrids for Highâ€Power Lithiumâ€Ion Battery Cathodes. Chemistry - A European Journal, 2015, 21, 2132-2138.	1.7	44
3750	Electrochemical capacitor behavior of SO42-/MxOy (M-Fe, Ti, Zr, Sn). Ceramics International, 2015, 41, 3791-3799.	2.3	3
3751	One-step template-free electrodeposition of novel poly(indole-7-carboxylic acid) nanowires and their high capacitance properties. RSC Advances, 2015, 5, 3215-3223.	1.7	30
3752	Hierarchical ZnO@MnO2 Core-Shell Pillar Arrays on Ni Foam for Binder-Free Supercapacitor Electrodes. Electrochimica Acta, 2015, 152, 172-177.	2.6	85
3753	Chlorine-doped carbonated cobalt hydroxide for supercapacitors with enormously high pseudocapacitive performance and energy density. Nano Energy, 2015, 11, 267-276.	8.2	121
3754	Facile Synthesis of 3D Hierarchical Flower-like Co3-xFexO4 ferrite on Nickel Foam as High-Performance Electrodes for Supercapacitors. Electrochimica Acta, 2015, 152, 13-18.	2.6	28
3755	Micro-sized porous carbon spheres with ultra-high rate capability for lithium storage. Nanoscale, 2015, 7, 1791-1795.	2.8	88
3756	LiMn2O4/CNTs and LiNi0.5Mn1.5O4/CNTs Nanocomposites as High-Performance Cathode Materials for Lithium-Ion Batteries. Acta Metallurgica Sinica (English Letters), 2015, 28, 122-128.	1.5	6
3757	One-minute deposition of micrometre-thick porous Si anodes for lithium ion batteries. RSC Advances, 2015, 5, 2938-2946.	1.7	7
3758	Self-assembled three-dimensional hierarchical graphene hybrid hydrogels with ultrathin Î²-MnO₂ nanobelts for high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 1540-1548.	5.2	97
3759	High-performance heterogeneous catalysis with surface-exposed stable metal nanoparticles. Scientific Reports, 2014, 4, 7228.	1.6	48
3760	Lithium-rich Li_{1.2}Ni_{0.13}Co_{0.13}Mn_{0.54}O₂ oxide coated by Li₃PO₄ and carbon nanocomposite layers as high performance cathode materials for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 2634-2641.	5.2	103
3761	Nanostructured anode materials for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 2454-2484.	5.2	690
3762	Structure, luminescence and photocatalytic activity of Mg-doped ZnO nanoparticles prepared by auto combustion method. Materials Science in Semiconductor Processing, 2015, 29, 372-379.	1.9	102
3763	Mesoporous MnCo₂O₄ with a Flakeâ€Like Structure as Advanced Electrode Materials for Lithiumâ€Ion Batteries and Supercapacitors. Chemistry - A European Journal, 2015, 21, 1526-1532.	1.7	183
3764	Superior Lithiumâ€Ion Storage Properties of Siâ€Based Composite Powders with Unique Si@Carbon@Void@Graphene Configuration. Chemistry - A European Journal, 2015, 21, 2076-2082.	1.7	23
3765	Gram-Scale Synthesis of Graphene-Mesoporous SnO2 Composite as Anode for Lithium-ion Batteries. Electrochimica Acta, 2015, 152, 178-186.	2.6	61
3766	Construction of desirable NiCo2S4 nanotube arrays on nickel foam substrate for pseudocapacitors with enhanced performance. Electrochimica Acta, 2015, 151, 35-41.	2.6	206

#	Article	IF	Citations
3767	Low-temperature performance of aqueous electrochemical capacitors based on manganese oxides. Electrochimica Acta, 2015, 157, 333-344.	2.6	16
3768	Controlled growth of nanostructured MnO2 on carbon nanotubes for high-performance electrochemical capacitors. Electrochimica Acta, 2015, 152, 480-488.	2.6	77
3769	The effect of titanium in Li₃V₂(PO₄)₃/graphene composites as cathode material for high capacity Li-ion batteries. RSC Advances, 2015, 5, 4872-4879.	1.7	22
3770	Super-high rate stretchable polypyrrole-based supercapacitors with excellent cycling stability. Nano Energy, 2015, 11, 518-525.	8.2	248
3771	Electrospun nanofibers: A prospective electro-active material for constructing high performance Li-ion batteries. Chemical Communications, 2015, 51, 2225-2234.	2.2	131
3772	Binder-free Fe2N nanoparticles on carbon textile with high power density as novel anode for high-performance flexible lithium ion batteries. Nano Energy, 2015, 11, 348-355.	8.2	180
3773	Nickel cobaltite as an emerging material for supercapacitors: An overview. Nano Energy, 2015, 11, 377-399.	8.2	437
3774	Branched Au Nanostructures Enriched with a Uniform Facet: Facile Synthesis and Catalytic Performances. Scientific Reports, 2015, 4, 5259.	1.6	34
3775	A nano-granular Sn impregnated NiTi alloy matrix anode for high voltage Li-ion pouch cells. RSC Advances, 2015, 5, 3844-3853.	1.7	2
3776	Is there a universal reaction mechanism of Li insertion into oxidic spinels: a case study using MgFe₂O₄. Journal of Materials Chemistry A, 2015, 3, 1549-1561.	5.2	30
3777	Anomalous capacity increase at high-rates in lithium-ion battery anodes based on silicon-coated vertically aligned carbon nanofibers. Journal of Power Sources, 2015, 276, 73-79.	4.0	30
3778	Materials Screening Through GPU Accelerated Topological Mapping. Materials and Manufacturing Processes, 2015, 30, 529-537.	2.7	4
3779	TiNb₂O₇ nanoparticles assembled into hierarchical microspheres as high-rate capability and long-cycle-life anode materials for lithium ion batteries. Nanoscale, 2015, 7, 619-624.	2.8	129
3780	Polyaniline-graphene composites with a three-dimensional array-based nanostructure for high-performance supercapacitors. Carbon, 2015, 83, 79-89.	5.4	116
3781	From a historic review to horizons beyond: lithiumâ€“sulphur batteries run on the wheels. Chemical Communications, 2015, 51, 18-33.	2.2	170
3782	Nanostructuring effect of multi-walled carbon nanotubes on electrochemical properties of carbon foam as constructive electrode for lead acid battery. Applied Nanoscience (Switzerland), 2015, 5, 53-61.	1.6	11
3783	Advances in spinel Li₄Ti₅O₁₂anode materials for lithium-ion batteries. New Journal of Chemistry, 2015, 39, 38-63.	1.4	207
3784	Controlled synthesis and characterization of iron oxide micro-particles for Fe-air battery electrode material. Colloid and Polymer Science, 2015, 293, 49-63.	1.0	13

#	Article	IF	Citations
3785	Solution processible hyperbranched inverse-vulcanized polymers as new cathode materials in Liâ€“S batteries. Polymer Chemistry, 2015, 6, 973-982.	1.9	52
3786	Titanium Silicide Coated Porous Silicon Nanospheres as Anode Materials for Lithium Ion Batteries. Electrochimica Acta, 2015, 151, 256-262.	2.6	46
3787	Lithiumâ€“sulfur batteries: from liquid to solid cells. Journal of Materials Chemistry A, 2015, 3, 936-958.	5.2	343
3788	Defining role of the surface and bulk contributions in camphoric carbon grafted lithium nickel manganese oxide powders for lithium ion batteries. Ceramics International, 2015, 41, 3269-3276.	2.3	8
3789	Abnormal drop in electrical resistivity with impurity doping of single-crystal Ag. Scientific Reports, 2014, 4, 5450.	1.6	33
3790	Fabrication of three-dimensional porous grapheneâ€“manganese dioxide composites as electrode materials for supercapacitors. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 465, 32-38.	2.3	36
3791	Laser-induced pinpoint hydrogen evolution from benzene and water using metal free single-walled carbon nanotubes with high quantum yields. Chemical Science, 2015, 6, 666-674.	3.7	7
3792	Significant impact of 2D graphene nanosheets on large volume change tin-based anodes in lithium-ion batteries: A review. Journal of Power Sources, 2015, 274, 869-884.	4.0	343
3793	Preparation and electrochemical properties of nanocrystalline LiBxMn2â^'xO4 cathode particles for Li-ion batteries by ultrasonic spray pyrolysis method. Journal of Alloys and Compounds, 2015, 620, 399-406.	2.8	28
3794	High-rate amorphous SnO₂ nanomembrane anodes for Li-ion batteries with a long cycling life. Nanoscale, 2015, 7, 282-288.	2.8	66
3795	One-pot solvothermal synthesis of graphene wrapped rice-like ferrous carbonate nanoparticles as anode materials for high energy lithium-ion batteries. Nanoscale, 2015, 7, 232-239.	2.8	46
3796	Ultrahigh intercalation pseudocapacitance of mesoporous orthorhombic niobium pentoxide from a novel cellulose nanocrystal template. Materials Chemistry and Physics, 2015, 149-150, 495-504.	2.0	52
3797	Design and construction of three dimensional graphene-based composites for lithium ion battery applications. Energy and Environmental Science, 2015, 8, 456-477.	15.6	243
3798	Cobaltâ€“Manganeseâ€Based Spinels as Multifunctional Materials that Unify Catalytic Water Oxidation and Oxygen Reduction Reactions. ChemSusChem, 2015, 8, 164-171.	3.6	233
3799	Insertion study of alkali metal cations into layered vanadium oxide foam. Journal of Sol-Gel Science and Technology, 2015, 73, 215-219.	1.1	4
3800	Ni-induced stepwise capacity increase in Ni-poor Li-rich cathode materials for high performance lithium ion batteries. Nano Research, 2015, 8, 808-820.	5.8	25
3801	The effects of Co doping on the crystal structure and electrochemical performance of Mg(Mn2Ââ^'ÂxCox)O4 negative materials for lithium ion battery. Solid State Sciences, 2015, 39, 23-28.	1.5	15
3802	Observation of lithiation-induced structural variations in TiO₂ nanotube arrays by X-ray absorption fine structure. Journal of Materials Chemistry A, 2015, 3, 412-419.	5.2	48

#	Article	IF	Citations
3803	Microstructure and electrochemical properties of iron oxide film fabricated by aerosol deposition method for lithium ion battery. Journal of Power Sources, 2015, 275, 336-340.	4.0	17
3804	Self-assembled porous MoO2/graphene microspheres towards high performance anodes for lithium ion batteries. Journal of Power Sources, 2015, 275, 351-361.	4.0	133
3805	Carbon materialization of ionic liquids: from solvents to materials. Materials Horizons, 2015, 2, 168-197.	6.4	165
3806	Na₃V₂(PO₄)₃ particles partly embedded in carbon nanofibers with superb kinetics for ultra-high power sodium ion batteries. Journal of Materials Chemistry A, 2015, 3, 1005-1009.	5.2	92
3807	Selfâ€Sacrifice Template Fabrication of Hierarchical Mesoporous Biâ€Componentâ€Active ZnO/ZnFe₂O₄ Subâ€Microcubes as Superior Anode Towards Highâ€Performance Lithiumâ€Ion Battery. Advanced Functional Materials, 2015, 25, 238-246.	7.8	334
3808	Highly uniform silicon nanoparticle/porous carbon nanofiber hybrids towards free-standing high-performance anodes for lithium-ion batteries. Carbon, 2015, 82, 337-345.	5.4	117
3809	Advances in sealed liquid cells for in-situ TEM electrochemial investigation of lithium-ion battery. Nano Energy, 2015, 11, 196-210.	8.2	75
3810	Scalable Roomâ€Temperature Synthesis of Mesoporous Nanocrystalline ZnMn₂O₄ with Enhanced Lithium Storage Properties for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2015, 21, 1262-1268.	1.7	62
3811	Surface and Interface Engineering of Electrode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2015, 27, 527-545.	11.1	426
3812	Titanium carbide nanocube core induced interfacial growth of crystalline polypyrrole/polyvinyl alcohol lamellar shell for wide-temperature range supercapacitors. Journal of Power Sources, 2015, 274, 1118-1125.	4.0	47
3813	Preparation of free-standing mesoporous metal catalysts and their applications in heterogeneous enantioselective hydrogenations. Catalysis Science and Technology, 2015, 5, 638-649.	2.1	8
3814	New understanding of Li3VO4/C as potential anode for Li-ion batteries: Preparation, structure characterization and lithium insertion mechanism. Journal of Power Sources, 2015, 274, 345-354.	4.0	108
3815	High energy xLi2MnO3â€"(1â^'x)LiNi2/3Co1/6Mn1/6O2 composite cathode for advanced Li-ion batteries. Journal of Power Sources, 2015, 274, 440-450.	4.0	16
3816	Conversion mechanisms of cobalt oxide anode for Li-ion battery: In situ X-ray absorption fine structure studies. Journal of Power Sources, 2015, 274, 748-754.	4.0	58
3817	Endowing manganese oxide with fast adsorption ability through controlling the manganese carbonate precursor assembled in ionic liquid. Journal of Colloid and Interface Science, 2015, 438, 149-158.	5.0	32
3818	Flexible electronics based on inorganic nanowires. Chemical Society Reviews, 2015, 44, 161-192.	18.7	429
3819	Nanostructured Mn-based oxides for electrochemical energy storage and conversion. Chemical Society Reviews, 2015, 44, 699-728.	18.7	740
3820	Learning from Nature: Binary Cooperative Complementary Nanomaterials. Small, 2015, 11, 1072-1096.	5.2	88

#	Article	IF	Citations
3821	Biomass-derived materials for electrochemical energy storages. Progress in Polymer Science, 2015, 43, 136-164.	11.8	251
3822	Controlled Growth of NiMoO₄ Nanosheet and Nanorod Arrays on Various Conductive Substrates as Advanced Electrodes for Asymmetric Supercapacitors. Advanced Energy Materials, 2015, 5, 1401172.	10.2	559
3823	A new lithium-ion battery: CuO nanorod array anode versus spinel LiNi0.5Mn1.5O4 cathode. Journal of Power Sources, 2015, 273, 561-565.	4.0	49
3824	Facile synthesis of ultrathin nickel hydroxides nanoflakes on nickel foam for high-performance supercapacitors. Materials Letters, 2015, 138, 5-8.	1.3	14
3825	Sputtered amorphous thin film nanocomposites as an anode for lithium-ion batteries. Journal of Power Sources, 2015, 273, 707-715.	4.0	15
3826	Nanocoaxes for optical and electronic devices. Analyst, The, 2015, 140, 39-58.	1.7	15
3827	Nonclassical Crystallization and Size Control of Ultra-Small MoO₂Nanoparticles in Water. Particle and Particle Systems Characterization, 2015, 32, 251-257.	1.2	2
3828	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. Nanoscale, 2015, 7, 4598-4810.	2.8	2,452
3829	Study of compaction and sintering of nanosized oxide powders by in situ electrical measurements and dilatometry: Nano CeO2â€"case study. Journal of Electroceramics, 2015, 34, 82-90.	0.8	15
3830	Recent trends in nanomaterials immobilised enzymes for biofuel production. Critical Reviews in Biotechnology, 2016, 36, 108-119.	5.1	171
3831	Capacity Optimization Nanotechnologies for Enhanced Energy Storage Systems. , 0, , .		0
3832	Nanostructuring of Metal Oxides in Aqueous Solutions. , 2016, , 369-458.		0
3833	Electrochemical Properties of Single-crystalline MnO Nanostructures and their Capacitive Performance in Basic Electrolyte. International Journal of Electrochemical Science, 2016, 11, 8155-8162.	0.5	25
3834	Lithium-Sulfur Batteries: Overview and Advances. Nanoscience and Nanotechnology - Asia, 2016, 6, 28-48.	0.3	4
3835	A Brief Review on Electrode Materials for Supercapacitor. International Journal of Electrochemical Science, 2016, 11, 10628-10643.	0.5	605
3836	Enhanced Performance of LiNiCoMnO Cathodes at Elevated Temperatures Using an Imidazolium-Based Electrolyte with Lithium Difluoro(oxalate)Borate. International Journal of Electrochemical Science, 2016, 11, 6149-6163.	0.5	1
3837	Mesoporous Carbon/Co3O4 Hybrid as Efficient Electrode for Methanol Electrooxidation in Alkaline Conditions. International Journal of Electrochemical Science, 2016, , 8374-8390.	0.5	18
3838	Salinity gradient engines. , 2016, , 219-256.		5

#	Article	IF	Citations
3839	MnFe2O4 Colloidal Nanocrystal Assemblies as Anode Materials for Lithium-Ion Batteries. International Journal of Electrochemical Science, 2016, , 7309-7317.	0.5	1
3840	Zinc Electrode Morphology Evolution in High Energy Density Nickel-Zinc Batteries. Journal of Nanomaterials, 2016, 2016, 1-9.	1.5	12
3841	Stepwise Growth of Hollow HexagonalÎ±-Fe2O3Nanocrystals. Journal of Nanomaterials, 2016, 2016, 1-5.	1.5	2
3842	Electrodeposited Ge Nanostructures Prepared by Different Non-Aqueous Solutions and their Application in Lithium Ion Battery: A Review. Recent Patents on Nanotechnology, 2016, 10, 26-43.	0.7	7
3843	Temperature- and Angle-Dependent Magnetic Properties of Ni Nanotube Arrays Fabricated by Electrodeposition in Polycarbonate Templates. Nanomaterials, 2016, 6, 231.	1.9	11
3844	Three-Dimensional Carbon Nanostructures for Advanced Lithium-Ion Batteries. Journal of Carbon Research, 2016, 2, 23.	1.4	6
3845	N-doped TiO2 Nanotubes as an Effective Additive to Improve the Catalytic Capability of Methanol Oxidation for Pt/Graphene Nanocomposites. Nanomaterials, 2016, 6, 40.	1.9	17
3846	Porphyrin-Based Nanostructures for Photocatalytic Applications. Nanomaterials, 2016, 6, 51.	1.9	150
3847	Mesoporous hollow carbon spheres for lithiumâ€“sulfur batteries: distribution of sulfur and electrochemical performance. Beilstein Journal of Nanotechnology, 2016, 7, 1229-1240.	1.5	28
3848	Facile Synthesis of MnPO4Â·H2O Nanowire/Graphene Oxide Composite Material and Its Application as Electrode Material for High Performance Supercapacitors. Catalysts, 2016, 6, 198.	1.6	23
3849	A Mini Review: Nanostructured Silicon-based Materials for Lithium Ion Battery. Nanoscience and Nanotechnology - Asia, 2016, 6, 3-27.	0.3	10
3850	Hydrothermal Synthesis of CuWO₄-Reduced Graphene Oxide Hybrids and Supercapacitor Application. American Journal of Engineering and Applied Sciences, 2016, 9, 584-590.	0.3	19
3851	Metal Hydride-Based Materials as Negative Electrode for All- Solid-State Lithium-Ion Batteries. , 0, , .		3
3853	Robust vanadium pentoxide electrodes for sodium and calcium ion batteries: thermodynamic and diffusion mechanical insights. Journal of Materials Chemistry A, 2016, 4, 12516-12525.	5.2	26
3854	Insight into the Growth Reaction Mechanism of Ceramic Co₃TeO₆: Synchrotron Structural and Thermal Analysis. Journal of the American Ceramic Society, 2016, 99, 3443-3448.	1.9	6
3855	One-pot synthesis of reduced graphene oxide supported gold-based nanomaterials as robust nanocatalysts for glucose electrooxidation. Electrochimica Acta, 2016, 212, 864-875.	2.6	62
3856	Hierarchical LiNixCoyO2 mesostructures as high-performance cathode materials for lithium ion batteries. Journal of Power Sources, 2016, 326, 279-284.	4.0	7
3857	From oxide to proton conduction: A quantumâ€chemical perspective on the versatility of Sr₂Fe_{1.5}Mo_{0.5}O_{6â^'Î´}â€based materials. International Journal of Quantum Chemistry, 2016, 116, 1501-1506.	1.0	13

#	Article	IF	Citations
3858	Nanoscale Engineering of Heterostructured Anode Materials for Boosting Lithiumâ€Ion Storage. Advanced Materials, 2016, 28, 7580-7602.	11.1	224
3859	Lowâ€Cost Higher Loading of a Sulfur Cathode. Advanced Energy Materials, 2016, 6, 1502059.	10.2	92
3860	Grapheneâ€Based Nanocomposites for Energy Storage. Advanced Energy Materials, 2016, 6, 1502159.	10.2	306
3861	Recent Developments and Understanding of Novel Mixed Transitionâ€Metal Oxides as Anodes in Lithium Ion Batteries. Advanced Energy Materials, 2016, 6, 1502175.	10.2	756
3862	Largeâ€Area, Ultrathin Inorganic Network Coveragesâ€“Graphene Hierarchical Electrodes for Flexible, Heatâ€Resistant Energy Storage Application. Advanced Energy Materials, 2016, 6, 1600146.	10.2	23
3863	Revisiting Surface Modification of Graphite: Dualâ€Layer Coating for Highâ€Performance Lithium Battery Anode Materials. Chemistry - an Asian Journal, 2016, 11, 1711-1717.	1.7	20
3864	Designed Formation of MnO₂@NiO/NiMoO₄ Nanowires@Nanosheets Hierarchical Structures with Enhanced Pseudocapacitive Properties. ChemElectroChem, 2016, 3, 1347-1353.	1.7	32
3865	Coreâ€“Shell Ge@Graphene@TiO₂ Nanofibers as a Highâ€Capacity and Cycleâ€Stable Anode for Lithium and Sodium Ion Battery. Advanced Functional Materials, 2016, 26, 1104-1111.	7.8	265
3866	Anionâ€Selective Redox Electrodes: Electrochemically Mediated Separation with Heterogeneous Organometallic Interfaces. Advanced Functional Materials, 2016, 26, 3394-3404.	7.8	106
3867	Highly Ordered Dual Porosity Mesoporous Cobalt Oxide for Sodiumâ€Ion Batteries. Advanced Materials Interfaces, 2016, 3, 1500464.	1.9	60
3868	Highâ€Rate, Durable Sodiumâ€Ion Battery Cathode Enabled by Carbonâ€Coated Microâ€Sized Na₃V₂(PO₄)₃ Particles with Interconnected Vertical Nanowalls. Advanced Materials Interfaces, 2016, 3, 1500740.	1.9	46
3869	Bridging Unilamellar Nanosheets for High Performance Additiveâ€Free Supercapacitor Electrodes. Advanced Materials Interfaces, 2016, 3, 1600108.	1.9	3
3870	Investigation of rareâ€earth metalâ€doped Ba_{0.96}Sr_{0.04}Zr_{0.04}Ti_{0.96}O₃ ceramics. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2147-2151.	0.8	0
3871	Simple Synthesis of TiO2/MnOx Composite with Enhanced Performances as Anode Materials for Li-Ion Battery. Electrochimica Acta, 2016, 211, 832-841.	2.6	19
3872	Charge storage performances of micro-supercapacitor predominated by two-dimensional (2D) crystal structure. Nano Energy, 2016, 27, 58-67.	8.2	39
3873	Cumulative effect of transition metals on nitrogen and fluorine co-doped graphite nanofibers: an efficient and highly durable non-precious metal catalyst for the oxygen reduction reaction. Nanoscale, 2016, 8, 14650-14664.	2.8	61
3874	Influence of molecular weight and degree of segregation on local segmental dynamics of ordered block copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 859-864.	2.4	31
3875	Ordered Mesoporous Cobalt Phosphate with Crystallized Walls toward Highly Active Water Oxidation Electrocatalysts. Small, 2016, 12, 1709-1715.	5.2	153

#	Article	IF	Citations
3876	Threeâ€Dimensional Coralâ€Like Structure Constructed of Carbonâ€Coated Interconnected Monocrystalline SnO₂ Nanoparticles with Improved Lithiumâ€Storage Properties. ChemElectroChem, 2016, 3, 1098-1106.	1.7	9
3877	iCVD Cyclic Polysiloxane and Polysilazane as Nanoscale Thin-Film Electrolyte: Synthesis and Properties. Macromolecular Rapid Communications, 2016, 37, 446-452.	2.0	28
3878	Preparation of MnCo₂O₄@Ni(OH)₂ Coreâ€“Shell Flowers for Asymmetric Supercapacitor Materials with Ultrahigh Specific Capacitance. Advanced Functional Materials, 2016, 26, 4085-4093.	7.8	517
3879	Strong, Machinable Carbon Aerogels for High Performance Supercapacitors. Advanced Functional Materials, 2016, 26, 4976-4983.	7.8	79
3880	Integration: An Effective Strategy to Develop Multifunctional Energy Storage Devices. Advanced Energy Materials, 2016, 6, 1501867.	10.2	138
3881	Morphologyâ€dependent electrocatalytic activity of nanostructured Pt/C particles from hybrid aerosolâ€“colloid process. AIChE Journal, 2016, 62, 440-450.	1.8	21
3882	Moisture Battery Formed by Direct Contact of Magnesium with Foamed Polyaniline. Angewandte Chemie - International Edition, 2016, 55, 1805-1809.	7.2	31
3883	Nanoscale order in the frustrated mixed conductor La_{5.6}WO_{12â^'Î´}. Journal of Applied Crystallography, 2016, 49, 997-1008.	1.9	15
3884	Heteroatomâ€Containing Porous Carbons Derived from Ionic Liquidâ€Doped Alkali Organic Salts for Supercapacitors. Small, 2016, 12, 1935-1944.	5.2	56
3885	A reduced graphene oxide/SnO2/polyaniline nanocomposite for the anode material of Li-ion batteries. Solid State Ionics, 2016, 294, 6-14.	1.3	15
3886	A review of the development of full cell lithium-ion batteries: The impact of nanostructured anode materials. Nano Research, 2016, 9, 2823-2851.	5.8	198
3887	Dendriteâ€Free Lithium Deposition Induced by Uniformly Distributed Lithium Ions for Efficient Lithium Metal Batteries. Advanced Materials, 2016, 28, 2888-2895.	11.1	877
3888	High Pressure Chemical Vapor Deposition of Hydrogenated Amorphous Silicon Films and Solar Cells. Advanced Materials, 2016, 28, 5939-5942.	11.1	11
3889	Silk Fibroin for Flexible Electronic Devices. Advanced Materials, 2016, 28, 4250-4265.	11.1	466
3890	Study on the capacitive performance of polyaniline/activated carbon nanocomposite for supercapacitor application. Journal of Polymer Research, 2016, 23, 1.	1.2	13
3891	Li 4 Ti 5 O 12 /reduced graphene oxide composite as a high-rate anode material for lithium ion batteries. Electrochimica Acta, 2016, 209, 235-243.	2.6	33
3892	Carbon-coated nanoparticle superlattices for energy applications. Nanoscale, 2016, 8, 14359-14368.	2.8	11
3893	Freeâ€Standing Grapheneâ€Encapsulated Silicon Nanoparticle Aerogel as an Anode for Lithium Ion Batteries. ChemNanoMat, 2016, 2, 671-674.	1.5	29

#	Article	IF	Citations
3894	Lithium Fluoride Additives for Stable Cycling of Lithium Batteries at High Current Densities. Advanced Electronic Materials, 2016, 2, 1500246.	2.6	284
3895	Atomic Layerâ€byâ€Layer Co₃O₄/Graphene Composite for High Performance Lithiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1501835.	10.2	316
3896	Wetâ€Chemical Processing of Phosphorus Composite Nanosheets for Highâ€Rate and Highâ€Capacity Lithiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1502409.	10.2	211
3897	Nanocomposites of TiO₂/cyanoethylated cellulose with ultra high dielectric constants. Nanotechnology, 2016, 27, 195402.	1.3	20
3898	Aqueous Degradation of Polyamide Membrane Materials in Halogenated Environments. MRS Advances, 2016, 1, 2421-2426.	0.5	1
3899	Piezoelectric and Triboelectric Dual Effects in Mechanical-Energy Harvesting Using BaTiO₃/Polydimethylsiloxane Composite Film. ACS Applied Materials & Interfaces, 2016, 8, 34335-34341.	4.0	194
3900	Nanorobotics for NEMS Using Helical Nanostructures. , 2016, , 2659-2666.		1
3901	Electrochemical supercapacitor based on double perovskite Y₂NiMnO₆ nanowires. RSC Advances, 2016, 6, 114722-114726.	1.7	98
3902	Nanoengineered Concrete. , 2016, , 2369-2379.		1
3904	Low-cost superior solid-state symmetric supercapacitors based on hematite nanocrystals. Nanotechnology, 2016, 27, 505404.	1.3	13
3905	Improved electrochemical performance of amorphous TiS₃ electrodes compared to its crystal for all-solid-state rechargeable lithium batteries. Journal of the Ceramic Society of Japan, 2016, 124, 242-246.	0.5	14
3906	The Large Scale Synthesis of Aligned Plate Nanostructures. Scientific Reports, 2016, 6, 29972.	1.6	7
3907	Strain Engineering to Modify the Electrochemistry of Energy Storage Electrodes. Scientific Reports, 2016, 6, 27542.	1.6	42
3908	Flow and dispersion in anisotropic porous media: A lattice-Boltzmann study. Physics of Fluids, 2016, 28, 102001.	1.6	24
3909	Nanoscale self-templating for oxide epitaxy with large symmetry mismatch. Scientific Reports, 2016, 6, 38168.	1.6	18
3910	Longitudinal Hierarchy Co3O4 Mesocrystals with High-dense Exposure Facets and Anisotropic Interfaces for Direct-Ethanol Fuel Cells. Scientific Reports, 2016, 6, 24330.	1.6	56
3911	Visualizing non-equilibrium lithiation of spinel oxide via in situ transmission electron microscopy. Nature Communications, 2016, 7, 11441.	5.8	162
3912	Quantum-chemical modeling of lithiationâ€“delithiation of infinite fibers [Si n C m] k (k = âˆž) for n = 12â€“16 and m = 8â€“19 and small silicon clusters. Russian Journal of Inorganic Chemistry, 2016, 61, 1677-1687.	0.3	6

#	Article	IF	Citations
3913	Preparation of NASICON-Type Nanosized Solid Electrolyte Li1.4Al0.4Ti1.6(PO4)3 by Evaporation-Induced Self-Assembly for Lithium-Ion Battery. Nanoscale Research Letters, 2016, 11, 551.	3.1	17
3914	Shaping the Light: The Key Factors Affecting the Photophysical Properties of Fluorescent Polymer Nanostructures. Macromolecular Rapid Communications, 2016, 37, 2037-2044.	2.0	4
3915	Structure diagram of binary Lennard-Jones clusters. Journal of Chemical Physics, 2016, 145, 024302.	1.2	7
3916	Influence of nanoparticle-ion and nanoparticle-polymer interactions on ion transport and viscoelastic properties of polymer electrolytes. Journal of Chemical Physics, 2016, 144, 154905.	1.2	20
3917	Superior electric storage on an amorphous perfluorinated polymer surface. Scientific Reports, 2016, 6, 22012.	1.6	12
3918	Nanotechnology for environmentally sustainable electromobility. Nature Nanotechnology, 2016, 11, 1039-1051.	15.6	117
3920	Vacuum template synthesis of multifunctional nanotubes with tailored nanostructured walls. Scientific Reports, 2016, 6, 20637.	1.6	14
3921	Forming solid electrolyte interphase in situ in an ionic conducting Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ -polypropylene (PP) based separator for Li-ion batteries. Chinese Physics B, 2016, 25, 078204.	0.7	25
3922	Understanding the Percolation Characteristics of Nonlinear Composite Dielectrics. Scientific Reports, 2016, 6, 30597.	1.6	67
3923	Mesoporous Nano-Silica Serves as the Degradation Inhibitor in Polymer Dielectrics. Scientific Reports, 2016, 6, 28749.	1.6	18
3924	Enhanced exchange bias and improved ferromagnetic properties in Permalloyâ€“BiFe0.95Co0.05O3 coreâ€“shell nanostructures. Scientific Reports, 2016, 5, 18203.	1.6	27
3925	Carbon Quantum Dot Surface-Engineered VO₂Interwoven Nanowires: A Flexible Cathode Material for Lithium and Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 9733-9744.	4.0	158
3926	Phosphonate-Derived Nanoporous Metal Phosphates and Their Superior Energy Storage Application. ACS Applied Materials & Interfaces, 2016, 8, 9790-9797.	4.0	71
3927	Asymmetric supercapacitor based on VS₂ nanosheets and activated carbon materials. RSC Advances, 2016, 6, 38990-39000.	1.7	109
3928	Recent advances in nanostructured Nb-based oxides for electrochemical energy storage. Nanoscale, 2016, 8, 8443-8465.	2.8	172
3929	Advanced catalyst supports for PEM fuel cell cathodes. Nano Energy, 2016, 29, 314-322.	8.2	146
3930	Excellent cycling stability and superior rate capability of a grapheneâ€“amorphous FePO₄porous nanowire hybrid as a cathode material for sodium ion batteries. Nanoscale, 2016, 8, 8495-8499.	2.8	42
3931	Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis. Chemical Reviews, 2016, 116, 3722-3811.	23.0	2,051

#	Article	IF	Citations
3932	Nanostructured MnxOy for oxygen reduction reaction (ORR) catalysts. Applied Surface Science, 2016, 388, 631-639.	3.1	42
3933	Mesoporous Spinel LiMn2O4 Cathode Material by a Soft-templating Route. Electrochimica Acta, 2016, 199, 51-58.	2.6	42
3934	A particleâ€“carbon matrix architecture for long-term cycle stability of ZnFe₂O₄ anode. RSC Advances, 2016, 6, 35110-35117.	1.7	10
3935	Threeâ€Tier Hierarchical Clusters of Carbonâ€Coated Li₄Ti₅O₁₂ Single Crystals as Highâ€Power and Highâ€Energy Anodes for Lithiumâ€Ion Batteries. ChemElectroChem, 2016, 3, 91-97.	1.7	9
3936	Extraordinary Performance of Carbonâ€Coated Anatase TiO₂ as Sodiumâ€Ion Anode. Advanced Energy Materials, 2016, 6, 1501489.	10.2	205
3937	Electrochemical properties of carbon nanocoils and hollow graphite fibers as anodes for rechargeable lithium ion batteries. Electrochimica Acta, 2016, 199, 204-209.	2.6	25
3938	The effect of block copolymer additives for a highly active polymeric metal-free oxygen reduction electrode. RSC Advances, 2016, 6, 28809-28814.	1.7	9
3939	Partial oxidation of step-bound water leads to anomalous pH effects on metal electrode step-edges. Physical Chemistry Chemical Physics, 2016, 18, 16216-16223.	1.3	40
3940	A dual mesopore C-aerogel electrode for a high energy density supercapacitor. Current Applied Physics, 2016, 16, 658-664.	1.1	16
3941	Improvement in electrochemical performance of calcined LiNi0.5Mn1.5O4/GO. Solid State Ionics, 2016, 292, 15-21.	1.3	19
3942	Atomic layer deposition assisted sacrificial template synthesis of mesoporous TiO2 electrode for high performance lithium ion battery anodes. Energy Storage Materials, 2016, 2, 27-34.	9.5	29
3943	Synthesis of carbon-coated Li4Ti5O12 nanosheets as anode materials for high-performance lithium-ion batteries. Journal of Alloys and Compounds, 2016, 687, 232-239.	2.8	38
3944	A carbon-free lithium-ion solid dispersion redox couple with low viscosity for redox flow batteries. Journal of Power Sources, 2016, 323, 97-106.	4.0	43
3945	Diffusion-induced 7Li NMR spin-lattice relaxation of fully lithiated, mixed-conducting Li7Ti5O12. Solid State Ionics, 2016, 287, 77-82.	1.3	18
3946	Repeat protein scaffolds: ordering photo- and electroactive molecules in solution and solid state. Chemical Science, 2016, 7, 4842-4847.	3.7	26
3947	Molten salt synthesis of nitrogen doped porous carbon: a new preparation methodology for high-volumetric capacitance electrode materials. Journal of Materials Chemistry A, 2016, 4, 9832-9843.	5.2	163
3948	Three-dimensional polymer-derived ceramic/graphene paper as a Li-ion battery and supercapacitor electrode. RSC Advances, 2016, 6, 53894-53902.	1.7	37
3949	Graphene grown in situ on TiO₂ hollow nanocrystals for advanced photocatalysis and lithium-ion batteries. New Journal of Chemistry, 2016, 40, 6714-6719.	1.4	5

#	Article	IF	Citations
3950	Petrochemical-waste-derived high-performance anode material for Li-ion batteries. Journal of Industrial and Engineering Chemistry, 2016, 36, 125-131.	2.9	14
3951	Enhancement of the electrochemical performance of silicon anodes through alloying with inert metals and encapsulation by graphene nanosheets. Electrochimica Acta, 2016, 209, 278-284.	2.6	19
3952	The effect of LaMnO3 with high electronic conductivity on the high rate charge-discharge performance of LiMn2O4. Journal of Electroanalytical Chemistry, 2016, 775, 306-310.	1.9	7
3953	Ion exchange conversion of solid electrolyte, potassium sodiostannate, into isomorphous metastable sodium stannate. Mendeleev Communications, 2016, 26, 246-247.	0.6	3
3954	Radiation-grafted materials for energy conversion and energy storage applications. Progress in Polymer Science, 2016, 63, 1-41.	11.8	64
3955	Nanomaterials for Rechargeable Lithium Batteries. Nanoscience and Technology, 2016, , 471-512.	1.5	13
3956	Mesoporous In₂O₃nanofibers assembled by ultrafine nanoparticles as a high capacity anode for Li-ion batteries. RSC Advances, 2016, 6, 49782-49786.	1.7	17
3957	Composite of few-layer MoO₃nanosheets with graphene as a high performance anode for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 9466-9471.	5.2	70
3958	Preparation and capacitance performance of nitrided lithium titanate nanoarrays. Ceramics International, 2016, 42, 9717-9727.	2.3	14
3959	Diffusion induced concave Co3O4@CoFe2O4 hollow heterostructures for high performance lithium ion battery anode. Energy Storage Materials, 2016, 4, 145-153.	9.5	50
3960	In situ and operando atomic force microscopy of high-capacity nano-silicon based electrodes for lithium-ion batteries. Nanoscale, 2016, 8, 14048-14056.	2.8	64
3961	Three-dimensional tungsten nitride nanowires as high performance anode material for lithium ion batteries. Journal of Power Sources, 2016, 322, 163-168.	4.0	37
3962	Synergistic sodiation of cobalt oxide nanoparticles and conductive carbon nanotubes (CNTs) for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 8669-8675.	5.2	30
3963	Ruthenium and ruthenium oxide nanofiber supports for enhanced activity of platinum electrocatalysts in the methanol oxidation reaction. Physical Chemistry Chemical Physics, 2016, 18, 14859-14866.	1.3	31
3964	Three-dimensional nickel nitride (Ni₃N) nanosheets: free standing and flexible electrodes for lithium ion batteries and supercapacitors. Journal of Materials Chemistry A, 2016, 4, 9844-9849.	5.2	203
3965	Super high-rate, long cycle life of europium-modified, carbon-coated, hierarchical mesoporous lithium-titanate anode materials for lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 9949-9957.	5.2	86
3966	Nitrogen and sulfur self-doped porous carbon from brussel sprouts as electrode materials for high stable supercapacitors. RSC Advances, 2016, 6, 57464-57472.	1.7	60
3967	Enhanced lithium adsorption/diffusion and improved Li capacity on SnS₂ nanoribbons: A computational investigation. Journal of Materials Research, 2016, 31, 878-885.	1.2	31

#	Article	IF	Citations
3968	Hybrid capacitors utilizing halogen-based redox reactions at interface between carbon positive electrode and aqueous electrolytes. Journal of Power Sources, 2016, 326, 580-586.	4.0	20
3969	Copper Nanoparticle-Incorporated Carbon Fibers as Free-Standing Anodes for Lithium-Ion Batteries. Nanoscale Research Letters, 2016, 11, 172.	3.1	14
3970	Nanowires assembled from MnCo2O4@C nanoparticles for water splitting and all-solid-state supercapacitor. Nano Research, 2016, 9, 1300-1309.	5.8	87
3971	Lowâ€Cost Hollow Mesoporous Polymer Spheres and Allâ€Solidâ€State Lithium, Sodium Batteries. Advanced Energy Materials, 2016, 6, 1501802.	10.2	132
3972	General Polyethyleneimineâ€Mediated Synthesis of Ultrathin Hexagonal Co₃O₄ Nanosheets with Reactive Facets for Lithiumâ€Ion Batteries. ChemElectroChem, 2016, 3, 55-65.	1.7	35
3973	Electrochemical analysis of interface adsorption phenomena on three-dimensional nano-nickel electrode deposited on silicon microchannel plate. Electrochimica Acta, 2016, 194, 253-262.	2.6	6
3974	Revealing particle growth mechanisms by combining high-surface-area catalysts made with monodisperse particles and electron microscopy conducted at atmospheric pressure. Journal of Catalysis, 2016, 337, 240-247.	3.1	36
3975	Graphdiyne applied for lithium-ion capacitors displaying high power and energy densities. Nano Energy, 2016, 22, 615-622.	8.2	190
3976	Synthesis of N-Doped Hollow-Structured Mesoporous Carbon Nanospheres for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 7194-7204.	4.0	190
3977	Hierarchical NiOâ€“In₂O₃ microflower (3D)/ nanorod (1D) hetero-architecture as a supercapattery electrode with excellent cyclic stability. Journal of Materials Chemistry A, 2016, 4, 4820-4830.	5.2	102
3978	Comparision between different metal oxide nanostructures and nanocomposites for sensing, energy generation, and energy harvesting. , 2016, , .		0
3979	Fabrication of Functionalized Graphene-Based MnO₂Nanoflower through Electrodeposition for High-Performance Supercapacitor Electrodes. Journal of the Electrochemical Society, 2016, 163, D230-D238.	1.3	34
3980	Graphene and its nanocomposites used as an active materials for supercapacitors. Journal of Solid State Electrochemistry, 2016, 20, 1509-1526.	1.2	23
3981	Wearable Selfâ€Charging Power Textile Based on Flexible Yarn Supercapacitors and Fabric Nanogenerators. Advanced Materials, 2016, 28, 98-105.	11.1	723
3982	Effect of Mn₃O₄ nanoparticle composition and distribution on graphene as a potential hybrid anode material for lithium-ion batteries. RSC Advances, 2016, 6, 33022-33030.	1.7	19
3983	Transition from Diffusionâ€Controlled Intercalation into Extrinsically Pseudocapacitive Charge Storage of MoS₂ by Nanoscale Heterostructuring. Advanced Energy Materials, 2016, 6, 1501115.	10.2	185
3984	Direct conversion of electrodeposited nanocrystalline Îµ-MnO2 into LiMn2O4 by microwave calcination. Journal of Solid State Electrochemistry, 2016, 20, 2019-2027.	1.2	2
3985	Synthesis of lithium titanium oxide (Li4Ti5O12) with ultrathin carbon layer using supercritical fluids for anode materials in lithium batteries. Journal of Materials Science, 2016, 51, 6220-6234.	1.7	12

#	Article	IF	Citations
3986	Facile hydrothermal-assisted synthesis of Gd 3+ doped PbI 2 nanostructures and their characterization. Materials Letters, 2016, 176, 135-138.	1.3	69
3987	Computer Simulations of Ion Transport in Polymer Electrolyte Membranes. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 349-371.	3.3	84
3988	Enhanced electrochemical supercapacitance of binder-free nanoporous ternary metal oxides/metal electrode. Journal of Colloid and Interface Science, 2016, 474, 18-24.	5.0	22
3989	Nano-array integrated monolithic devices: toward rational materials design and multi-functional performance by scalable nanostructures assembly. CrystEngComm, 2016, 18, 2980-2993.	1.3	23
3990	Single-crystal Î²-NiS nanorod arrays with a hollow-structured Ni₃S₂ framework for supercapacitor applications. Journal of Materials Chemistry A, 2016, 4, 7700-7709.	5.2	168
3991	Facile hydrothermal synthesis of one-dimensional nanostructured Î±-MnO 2 for supercapacitors. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 83, 41-46.	1.3	14
3992	NiCo2O4@TiN Core-shell Electrodes through Conformal Atomic Layer Deposition for All-solid-state Supercapacitors. Electrochimica Acta, 2016, 196, 611-621.	2.6	41
3993	Selective hydrogenation of aromatic carboxylic acids over basic N-doped mesoporous carbon supported palladium catalysts. Applied Catalysis A: General, 2016, 520, 73-81.	2.2	60
3994	Palladium Nanoparticles Supported on Nitrogen and Sulfur Dual-Doped Graphene as Highly Active Electrocatalysts for Formic Acid and Methanol Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 10858-10865.	4.0	193
3995	A mixed-solvent route to unique PtAuCu ternary nanotubes templated from Cu nanowires as efficient dual electrocatalysts. Science China Materials, 2016, 59, 112-121.	3.5	45
3996	Beaded manganese oxide (Mn₂O₃) nanofibers: preparation and application for capacitive energy storage. Journal of Materials Chemistry A, 2016, 4, 7883-7891.	5.2	59
3997	Three-Dimensional Network of N-Doped Carbon Ultrathin Nanosheets with Closely Packed Mesopores: Controllable Synthesis and Application in Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2016, 8, 11720-11728.	4.0	93
3998	Degradation of polymer electrolyte membrane fuel cell by siloxane in biogas. Journal of Power Sources, 2016, 316, 44-52.	4.0	7
3999	Shape-controlled synthesis of Auâ€“Pd bimetallic nanocrystals for catalytic applications. Chemical Society Reviews, 2016, 45, 3916-3934.	18.7	228
4000	Design and synthesis of one-dimensional Co₃O₄/Co₃V₂O₈ hybrid nanowires with improved Li-storage properties. RSC Advances, 2016, 6, 36418-36424.	1.7	15
4001	Reconstructing solute-induced phase transformations within individual nanocrystals. Nature Materials, 2016, 15, 768-774.	13.3	72
4002	Construction of 3D nanostructure hierarchical porous graphitic carbons by charge-induced self-assembly and nanocrystal-assisted catalytic graphitization for supercapacitors. Chemical Communications, 2016, 52, 6673-6676.	2.2	106
4003	A three-dimensional porous MoP@C hybrid as a high-capacity, long-cycle life anode material for lithium-ion batteries. Nanoscale, 2016, 8, 10330-10338.	2.8	116

#	Article	IF	Citations
4004	In situ hydrothermal fabrication of a MnO₂@CoMoO₄@Ni nanohybrid electrode and ultrahigh energy density of ASCs. RSC Advances, 2016, 6, 46508-46515.	1.7	9
4005	Facile synthesis of a mesostructured TiO₂â€“graphitized carbon (TiO₂â€“gC) composite through the hydrothermal process and its application as the anode of lithium ion batteries. RSC Advances, 2016, 6, 39484-39491.	1.7	22
4006	Morphology controlled La2O3/Co3O4/MnO2â€“CNTs hybrid nanocomposites with durable bi-functional air electrode in high-performance zincâ€“air energy storage. Applied Energy, 2016, 175, 495-504.	5.1	68
4007	The effects of LiTi₂(PO₄)₃ modification on the performance of spherical Li_{1.5}Ni_{0.25}Mn_{0.75}O_{2+Î´} cathode material. RSC Advances, 2016, 6, 46325-46335.	1.7	21
4008	A promising sol-gel method to synthesize NaVO3 as anode material for lithium ion batteries. Journal of Solid State Electrochemistry, 2016, 20, 1803-1812.	1.2	15
4009	Synthesis, Properties, and Applications of Hollow Micro-/Nanostructures. Chemical Reviews, 2016, 116, 10983-11060.	23.0	1,215
4010	Fabrication of carbon nanorods and graphene nanoribbons from a metalâ€“organic framework. Nature Chemistry, 2016, 8, 718-724.	6.6	913
4011	Enhanced electrochemical properties of MgF2 and C co-coated Li3V2(PO4)3 composite for Li-ion batteries. Journal of Electroanalytical Chemistry, 2016, 762, 1-6.	1.9	14
4012	In situ synthesis of chemically bonded NaTi2(PO4)3/rGO 2D nanocomposite for high-rate sodium-ion batteries. Nano Research, 2016, 9, 1844-1855.	5.8	69
4013	Substrate Integrated Nickelâ€“Iron Ultrabattery with Extraordinarily Enhanced Performances. ACS Energy Letters, 2016, 1, 82-88.	8.8	29
4014	Bacteria Absorption-Based Mn₂P₂O₇â€“Carbon@Reduced Graphene Oxides for High-Performance Lithium-Ion Battery Anodes. ACS Nano, 2016, 10, 5516-5524.	7.3	81
4015	Advanced cathode materials for lithium-ion batteries using nanoarchitectonics. Nanoscale Horizons, 2016, 1, 423-444.	4.1	119
4016	Highly sensitive and selective hydrogen gas sensor using sputtered grown Pd decorated MnO2 nanowalls. Sensors and Actuators B: Chemical, 2016, 234, 8-14.	4.0	114
4017	RuO₂@Co₃O₄ heterogeneous nanofibers: a high-performance electrode material for supercapacitors. RSC Advances, 2016, 6, 49173-49178.	1.7	16
4018	Self-Organized Al₂Cu Nanocrystals at the Interface of Aluminum-Based Reactive Nanolaminates to Lower Reaction Onset Temperature. ACS Applied Materials & Interfaces, 2016, 8, 13104-13113.	4.0	22
4019	Shape-selective synthesis of Sn(MoO₄)₂ nanomaterials for catalysis and supercapacitor applications. Dalton Transactions, 2016, 45, 8897-8915.	1.6	27
4020	Facile shape-controlled growth of hierarchical mesoporous Î´-MnO₂for the development of asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 8384-8394.	5.2	58
4021	Large-scale synthesis of LiNi_{0.75}Fe_{0.25}PO₄covalently anchored on graphene nanosheets for remarkable electrochemical water oxidation. Journal of Materials Chemistry A, 2016, 4, 8149-8154.	5.2	10

#	Article	IF	Citations
4022	Supercapacitive composite metal oxide electrodes formed with carbon, metal oxides and conducting polymers. Journal of Alloys and Compounds, 2016, 682, 381-403.	2.8	131
4023	Lattice-Gas Model for Energy Storage Materials: Phase Diagram and Equilibrium Potential as a Function of Nanoparticle Size. Journal of Physical Chemistry C, 2016, 120, 11192-11203.	1.5	4
4024	Facile Synthesis of Carbon-Coated Silicon/Graphite Spherical Composites for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 12109-12117.	4.0	130
4025	Synthesis of hierarchical ZnO/ZnCo₂O₄ nanosheets with mesostructures for lithium-ion anodes. RSC Advances, 2016, 6, 43551-43555.	1.7	11
4026	Disordered spinel LiNi0.5Mn1.5O4 cathode with improved rate performance for lithium-ion batteries. Electrochimica Acta, 2016, 206, 374-380.	2.6	28
4027	Porous graphite prepared by molybdenum oxide catalyzed gasification as anode material for lithium ion batteries. Materials Letters, 2016, 176, 151-154.	1.3	43
4028	Cellulose Tailored Anatase TiO₂ Nanospindles in Three-Dimensional Graphene Composites for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 12165-12175.	4.0	91
4029	Functionalization of chemically derived graphene for improving its electrocapacitive energy storage properties. Energy and Environmental Science, 2016, 9, 1891-1930.	15.6	205
4030	TiO2fibre/particle nanohybrids as efficient anodes for lithium-ion batteries. RSC Advances, 2016, 6, 45802-45808.	1.7	8
4031	Synthesis of Li4Ti5O12-reduced graphene oxide composite and its application for hybrid supercapacitors. Ionics, 2016, 22, 1829-1836.	1.2	5
4032	Preparation and electrochemical properties of double-shell LiNi_{0.5}Mn_{1.5}O₄ hollow microspheres as cathode materials for Li-ion batteries. RSC Advances, 2016, 6, 45369-45375.	1.7	16
4033	A polydopamine coating ultralight graphene matrix as a highly effective polysulfide absorbent for high-energy Li S batteries. Renewable Energy, 2016, 96, 333-340.	4.3	24
4034	Impact of Nanostructuring on the Phase Behavior of Insertion Materials: The Hydrogenation Kinetics of a Magnesium Thin Film. Journal of Physical Chemistry C, 2016, 120, 10185-10191.	1.5	23
4035	Structure and crystallization behavior of poly(ethylene oxide)/Ti3C2Tx MXene nanocomposites. Polymer, 2016, 102, 119-126.	1.8	77
4036	Hierarchical porous microspheres of activated carbon with a high surface area from spores for electrochemical double-layer capacitors. Journal of Materials Chemistry A, 2016, 4, 15968-15979.	5.2	80
4037	Energy Storage Performance Enhancement by Surface Engineering of Electrode Materials. Advanced Materials Interfaces, 2016, 3, 1600430.	1.9	17
4038	Cobalt nanoparticles encapsulated in N-doped graphene nanoshells as an efficient cathode electrocatalyst for a mechanical rechargeable zincâ€“air battery. RSC Advances, 2016, 6, 90069-90075.	1.7	22
4039	Hollow porous SiO₂ nanobelts containing sulfur for long-life lithiumâ€“sulfur batteries. RSC Advances, 2016, 6, 91179-91184.	1.7	12

#	Article	IF	Citations
4040	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. Journal of Materials Chemistry A, 2016, 4, 15041-15048.	5.2	35
4041	Distinctive Extrinsic Atom Effects on the Structural, Optical, and Electronic Properties of Bi₂S_{3-x}Se_x Solid Solutions. Chemistry of Materials, 2016, 28, 6544-6552.	3.2	36
4043	Synthesis and characterization of nanocomposites based on poly(3-hexylthiophene)-graft-carbon nanotubes with LiNi0.5Mn1.5O4 and its application as potential cathode materials for lithium-ion batteries. Bulletin of Materials Science, 2016, 39, 1177-1184.	0.8	4
4044	Low Temperature Performance of Amorphous Monolithic Silicon Anodes: Comparative Study of Silicon and Graphite Electrodes. Journal of the Electrochemical Society, 2016, 163, A2407-A2412.	1.3	45
4045	High electrochemical performance of hybrid cobalt oxyhydroxide/nickel foam graphene. Journal of Colloid and Interface Science, 2016, 484, 77-85.	5.0	25
4046	Phosphorus-Rich Copper Phosphide Nanowires for Field-Effect Transistors and Lithium-Ion Batteries. ACS Nano, 2016, 10, 8632-8644.	7.3	79
4047	Electrospun Li2MnO3-modified Li1.2NixCo0.1Mn0.9-xO2 nanofibers: Synthesis and enhanced electrochemical performance for lithium-ion batteries. Electronic Materials Letters, 2016, 12, 804-811.	1.0	10
4048	2D and 3D photonic crystal materials for photocatalysis and electrochemical energy storage and conversion. Science and Technology of Advanced Materials, 2016, 17, 563-582.	2.8	77
4049	A chemically modified graphene oxide wrapped porous hematite nano-architecture as a high rate lithium-ion battery anode material. RSC Advances, 2016, 6, 82698-82706.	1.7	12
4050	Dodecylamine-derived thin carbon-coated single Fe₃O₄ nanocrystals for advanced lithium ion batteries. RSC Advances, 2016, 6, 37923-37928.	1.7	6
4051	Polymerized ionic liquid diblock copolymer as solid-state electrolyte and separator in lithium-ion battery. Polymer, 2016, 101, 311-318.	1.8	43
4052	Performance of High Energy Density Symmetric Supercapacitor Based on Sputtered MnO₂ Nanorods. ChemistrySelect, 2016, 1, 3885-3891.	0.7	57
4053	An accurate method to determine the through-plane electrical conductivity and to study transport properties in film samples. Organic Electronics, 2016, 38, 264-270.	1.4	10
4054	Orientation symmetry breaking in self-assembled Ce_{1â^'x}Gd_xO_{2â^'y}nanowires derived from chemical solutions. RSC Advances, 2016, 6, 97226-97236.	1.7	8
4055	A high-performance flexible pseudo-supercapacitor constructed on conductive cloth. , 2016, , .		1
4056	Facile fabrication of large-area hybrid Ni-Co hydroxide/Cu(OH)2/copper foam composites. Electrochimica Acta, 2016, 218, 294-302.	2.6	41
4057	YCrO₃/Al₂O₃ Coreâ€Shell Design: The Effect of the Nanometric Al₂O₃â€Shell on Dielectric Properties. Journal of the American Ceramic Society, 2016, 99, 3382-3388.	1.9	3
4058	One-pot preparation of new copolymer electrolytes with tunable network structure for all-solid-state lithium battery. Journal of Power Sources, 2016, 331, 322-331.	4.0	65

#	Article	IF	Citations
4059	Soft Landing of Complex Ions for Studies in Catalysis and Energy Storage. Journal of Physical Chemistry C, 2016, 120, 23305-23322.	1.5	31
4060	Nanostructured positive electrode materials for post-lithium ion batteries. Energy and Environmental Science, 2016, 9, 3570-3611.	15.6	241
4061	Redox Active Polymers as Soluble Nanomaterials for Energy Storage. Accounts of Chemical Research, 2016, 49, 2649-2657.	7.6	115
4062	Facile one-pot synthesis of a nitrogen-doped mesoporous carbon architecture with cobalt oxides encapsulated in graphitic layers as a robust bicatalyst for oxygen reduction and evolution reactions. Journal of Materials Chemistry A, 2016, 4, 16920-16927.	5.2	55
4063	All-fiber transparent piezoelectric harvester with a cooperatively enhanced structure. Nanotechnology, 2016, 27, 435403.	1.3	15
4065	Scalable synthesis of ultrasmall SnO 2 nanocrystals in carbon conductive matrices: High loading and excellent electrochemical performance. Journal of Alloys and Compounds, 2016, 686, 122-129.	2.8	7
4066	Lowly loaded carbon nanotubes induced high electrical conductivity and giant magnetoresistance in ethylene/1-octene copolymers. Polymer, 2016, 103, 315-327.	1.8	69
4067	Germanium-based multiphase material as a high-capacity and cycle-stable anode for lithium-ion batteries. RSC Advances, 2016, 6, 89176-89180.	1.7	6
4068	Metalâ€“Organic Framework-Templated Synthesis of Bifunctional N-Doped TiO₂â€“Carbon Nanotablets via Solid-State Thermolysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 6744-6753.	3.2	35
4069	Improved performance in micron-sized silicon anodes by in situ polymerization of acrylic acid-based slurry. Journal of Materials Chemistry A, 2016, 4, 16982-16991.	5.2	47
4070	A Universal Model of Water Flow Through Nanopores in Unconventional Reservoirs: Relationships Between Slip, Wettability and Viscosity. , 2016, , .		6
4071	Designed Repeat Proteins as Building Blocks for Nanofabrication. Advances in Experimental Medicine and Biology, 2016, 940, 61-81.	0.8	15
4072	Organic-inorganic hybrid solid electrolytes for solid-state lithium cells operating at room temperature. Electrochimica Acta, 2016, 218, 271-277.	2.6	77
4073	Rosin-Embedded Poly(acrylic acid) Binder for Silicon/Graphite Negative Electrode. ACS Sustainable Chemistry and Engineering, 2016, 4, 6362-6370.	3.2	22
4074	Solution-processed ultra-low-k thin films comprising single-walled aluminosilicate nanotubes. Nanoscale, 2016, 8, 17427-17432.	2.8	11
4075	Tuning porous nanostructures of MnCo₂O₄for application in supercapacitors and catalysis. RSC Advances, 2016, 6, 96296-96305.	1.7	47
4076	Mutual transformation between crystalline phases in silicon after treatment in a planetary mill: HRTEM studies. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 733-737.	0.5	12
4077	Introduction to Plasmonics, Templated Electrochemical Synthesis, and On-Wire Lithography. Springer Theses, 2016, , 1-10.	0.0	0

#	Article	IF	Citations
4078	Hollow carbon nanosphere embedded with ultrafine Fe 3 O 4 nanoparticles as high performance Li-ion battery anode. Electrochimica Acta, 2016, 219, 356-362.	2.6	27
4079	Oxygen reduction and evolution in an ionic liquid ([BMP][TFSA]) based electrolyte: A model study of the cathode reactions in Mg-air batteries. Journal of Power Sources, 2016, 333, 173-183.	4.0	30
4080	Ballistic energy conversion: physical modeling and optical characterization. Nano Energy, 2016, 30, 252-259.	8.2	10
4081	N-Doped hierarchical porous carbon prepared by simultaneous-activation of KOH and NH₃ for high performance supercapacitors. RSC Advances, 2016, 6, 101372-101379.	1.7	43
4082	Achieving homogeneous anodic TiO2 nanotube layers through grain refinement of the titanium substrate. Materials and Design, 2016, 110, 346-353.	3.3	15
4083	Nanoporous ionic organic networks: from synthesis to materials applications. Chemical Society Reviews, 2016, 45, 6627-6656.	18.7	152
4084	Nanospace-confined synthesis of oriented porous carbon nanosheets for high-performance electrical double layer capacitors. Journal of Materials Chemistry A, 2016, 4, 16879-16885.	5.2	33
4085	Synthesis of Hierarchically Porous Sandwichâ€Like Carbon Materials for Highâ€Performance Supercapacitors. Chemistry - A European Journal, 2016, 22, 16863-16871.	1.7	38
4086	Highly active nickelâ€“cobalt/nanocarbon thin films as efficient water splitting electrodes. Nanoscale, 2016, 8, 18507-18515.	2.8	56
4087	Phase Inversion: A Universal Method to Create Highâ€Performance Porous Electrodes for Nanoparticleâ€Based Energy Storage Devices. Advanced Functional Materials, 2016, 26, 8427-8434.	7.8	132
4088	Silicon-Reduced Graphene Oxide Self-Standing Composites Suitable as Binder-Free Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 28800-28808.	4.0	50
4089	Rapid, Large-Area Synthesis of Hierarchical Nanoporous Silica Hybrid Films on Flexible Substrates. Journal of the American Chemical Society, 2016, 138, 13473-13476.	6.6	33
4090	Structure and electric properties of sodium ion hydrate shell in nanopore with hydrophilic walls. Russian Journal of Electrochemistry, 2016, 52, 910-919.	0.3	3
4091	Precise Perforation and Scalable Production of Si Particles from Low-Grade Sources for High-Performance Lithium Ion Battery Anodes. Nano Letters, 2016, 16, 7210-7215.	4.5	105
4092	The influences of operating conditions and design configurations on the performance of symmetric electrochemical capacitors. Physical Chemistry Chemical Physics, 2016, 18, 28626-28647.	1.3	10
4093	Efficient Access of Voltammetric Charge in Hybrid Supercapacitor Configured with Potassium Incorporated Nanographitic Structure Derived from Cotton (Gossypium arboreum) as Negative and Ni(OH)₂/rGO Composite as Positive Electrode. Industrial & Engineering Chemistry Research, 2016, 55, 11074-11084.	1.8	16
4094	Structurally Defined 3D Nanographene Assemblies via Bottomâ€Up Chemical Synthesis for Highly Efficient Lithium Storage. Advanced Materials, 2016, 28, 10250-10256.	11.1	72
4095	Three-dimensional NiCo₂O₄/NiCo₂S₄hybrid nanostructure on Ni-foam as a high-performance supercapacitor electrode. RSC Advances, 2016, 6, 95760-95767.	1.7	46

#	Article	IF	Citations
4096	Atomic electron tomography: 3D structures without crystals. Science, 2016, 353, .	6.0	181
4097	Digital selective laser methods for nanomaterials: From synthesis to processing. Nano Today, 2016, 11, 547-564.	6.2	118
4098	Polymer-Based Organic Batteries. Chemical Reviews, 2016, 116, 9438-9484.	23.0	919
4099	3D graphene-based hybrid materials: synthesis and applications in energy storage and conversion. Nanoscale, 2016, 8, 15414-15447.	2.8	127
4100	Nanowire-Enabled Energy Storage. Nanoscience and Technology, 2016, , 203-225.	1.5	0
4101	Flaky CoS₂and graphene nanocomposite anode materials for sodium-ion batteries with improved performance. RSC Advances, 2016, 6, 70632-70637.	1.7	70
4102	A flexible and high-performance all-solid-state supercapacitor device based on Ni3S2 nanosheets coated ITO nanowire arrays on carbon fabrics. RSC Advances, 2016, 6, 75186-75193.	1.7	29
4103	Facile synthesis of uniform AuPd@Pd nanocrystals supported on three-dimensional porous N-doped reduced graphene oxide hydrogels as highly active catalyst for methanol oxidation reaction. Electrochimica Acta, 2016, 213, 565-573.	2.6	55
4104	Selfâ€Supported Lithium Titanium Oxide Nanosheet Arrays Decorated with Molybdenum Disulfide for Highâ€Performance Lithiumâ€Ion Batteries. Energy Technology, 2016, 4, 1420-1426.	1.8	11
4105	Ice Templated Freeâ€Standing Hierarchically WS₂/CNTâ€rGO Aerogel for Highâ€Performance Rechargeable Lithium and Sodium Ion Batteries. Advanced Energy Materials, 2016, 6, 1601057.	10.2	276
4106	Synthesis of graphitized carbon, nanodiamond and graphene supported Li4Ti5O12 and comparison of their electrochemical performance as anodes for lithium ion batteries. Applied Surface Science, 2016, 389, 428-437.	3.1	12
4107	N-doped carbon layer derived from polydopamine to improve the electrochemical performance of spray-dried Si/graphite composite anode material for lithium ion batteries. Journal of Alloys and Compounds, 2016, 689, 130-137.	2.8	71
4108	Nanostructured CuS networks composed of interconnected nanoparticles for asymmetric supercapacitors. Physical Chemistry Chemical Physics, 2016, 18, 24471-24476.	1.3	82
4109	Advantages of Ge anode for Na-ion batteries: Ge vs. Si and Sn. Journal of Alloys and Compounds, 2016, 688, 158-163.	2.8	35
4110	Superior Oxide Ion Conductivity of Novel Acceptor Doped Cerium Oxide Electrolytes for Intermediate-Temperature Solid Oxide Fuel Cell Applications. Journal of Physical Chemistry C, 2016, 120, 18452-18461.	1.5	33
4111	All-Elastomer-Based Triboelectric Nanogenerator as a Keyboard Cover To Harvest Typing Energy. ACS Nano, 2016, 10, 7973-7981.	7.3	96
4112	Cheese-like bulk carbon with nanoholes prepared from egg white as an anode material for lithium and sodium ion batteries. RSC Advances, 2016, 6, 80986-80993.	1.7	14
4113	Self-healing of cracks formed in Silicon-Aluminum anodes electrochemically cycled at high lithiation rates. Journal of Power Sources, 2016, 328, 300-310.	4.0	17

#	Article	IF	Citations
4114	Diffusion of H₂ and D₂ Confined in Single-Walled Carbon Nanotubes: Quantum Dynamics and Confinement Effects. Journal of Physical Chemistry A, 2016, 120, 6501-6512.	1.1	16
4115	Shape-controlled iron oxide nanocrystals: synthesis, magnetic properties and energy conversion applications. CrystEngComm, 2016, 18, 6303-6326.	1.3	61
4116	Rapid Largeâ€Scale Synthesis of Vanadate Nanoscrolls with Controllable Lengths. ChemNanoMat, 2016, 2, 54-60.	1.5	7
4117	Three-dimensional porous MXene/layered double hydroxide composite for high performance supercapacitors. Journal of Power Sources, 2016, 327, 221-228.	4.0	253
4118	High Performance and Costâ€Effective Direct Methanol Fuel Cells: Feâ€Nâ€C Methanolâ€Tolerant Oxygen Reduction Reaction Catalysts. ChemSusChem, 2016, 9, 1986-1995.	3.6	100
4119	Silicon Nitride Encapsulated Silicon Nanocrystals for Lithium Ion Batteries. Plasma Processes and Polymers, 2016, 13, 116-123.	1.6	8
4120	Carbon supported Co9S8 hollow spheres assembled from ultrathin nanosheets for high-performance supercapacitors. Materials Letters, 2016, 183, 290-295.	1.3	24
4121	Conducting Polymers for Pseudocapacitive Energy Storage. Chemistry of Materials, 2016, 28, 5989-5998.	3.2	389
4122	High performance bifunctional electrocatalytic activity of a reduced graphene oxideâ€“molybdenum oxide hybrid catalyst. Journal of Materials Chemistry A, 2016, 4, 13271-13279.	5.2	62
4123	High rate capability of mesoporous NiWO4â€“CoWO4 nanocomposite as a positive material for hybrid supercapacitor. Materials Chemistry and Physics, 2016, 182, 394-401.	2.0	45
4124	Engineering a hierarchical hollow hematite nanostructure for lithium storage. Journal of Materials Chemistry A, 2016, 4, 14687-14692.	5.2	13
4125	Synthesis and electrochemical characterization of Ni-B/ZIF-8 as electrode materials for supercapacitors. Electronic Materials Letters, 2016, 12, 645-650.	1.0	9
4126	Bio-inspired 2-line ferrihydrite as a high-capacity and high-rate-capability anode material for lithium-ion batteries. Journal of Power Sources, 2016, 328, 503-509.	4.0	7
4127	DFT simulation towards evaluation the molecular structure and properties of the heterogeneous C16Mg8O8 nanoâ€“cage as selective nanoâ€“sensor for H2 and N2 gases. Journal of Molecular Graphics and Modelling, 2016, 70, 163-169.	1.3	16
4128	Intrinsic factors attenuate the performance of anhydride organic cathode materials of lithium battery. Journal of Electroanalytical Chemistry, 2016, 773, 22-26.	1.9	12
4129	Ultrasmall tungsten carbide catalysts stabilized in graphitic layers for high-performance oxygen reduction reaction. Nano Energy, 2016, 28, 261-268.	8.2	78
4130	Kinetically Controlled Synthesis of LiNi_{0.5}Mn_{1.5}O₄ Micro- and Nanostructured Hollow Spheres as High-Rate Cathode Materials for Lithium Ion Batteries. Industrial & Engineering Chemistry Research, 2016, 55, 9352-9361.	1.8	25
4131	Non-trivial network driven modifications of ion transport in an ionic liquid confined inside a polymer system. Molecular Systems Design and Engineering, 2016, 1, 391-401.	1.7	6

#	Article	IF	Citations
4132	Solvent stable nanoporous poly (ethylene-co-vinyl alcohol) barrier membranes for liquid-liquid extraction of lithium from a salt lake brine. Journal of Membrane Science, 2016, 520, 596-606.	4.1	66
4133	Hierarchical porous SnO 2 /reduced graphene oxide composites for high-performance lithium-ion battery anodes. Electrochimica Acta, 2016, 215, 42-49.	2.6	19
4134	Enhanced photoelectric conversion efficiency of dye sensitized solar cells via the incorporation of one dimensional luminescent BaWO₄:Eu³⁺ nanowires. Chemical Communications, 2016, 52, 11124-11126.	2.2	22
4135	High temperature electrical energy storage: advances, challenges, and frontiers. Chemical Society Reviews, 2016, 45, 5848-5887.	18.7	268
4136	Quinone-Wrapped Nanostructured MnO2: A Synergetic Approach to Enhanced Supercapacitive Behavior and Magnetic Properties. Journal of the Electrochemical Society, 2016, 163, A1743-A1752.	1.3	5
4137	Highly porous three-dimensional carbon nanotube foam as a freestanding anode for a lithium-ion battery. RSC Advances, 2016, 6, 79734-79744.	1.7	44
4138	Synthesis, characterization and catalytic potential of MgNiO2 nanoparticles obtained from a novel [MgNi(opba)] Â·9nH2O chain. Ceramics International, 2016, 42, 13635-13641.	2.3	9
4139	A direct phase separation approach synthesis of hierarchically porous functional carbon as an advanced electrocatalyst for oxygen reduction reaction. Carbon, 2016, 109, 306-313.	5.4	6
4140	Flexible hierarchical membranes of WS₂nanosheets grown on graphene-wrapped electrospun carbon nanofibers as advanced anodes for highly reversible lithium storage. Nanoscale, 2016, 8, 16387-16394.	2.8	84
4141	Electrochemical Tailoring of Fibrous Polyaniline and Electroless Decoration with Gold and Platinum Nanoparticles. Langmuir, 2016, 32, 8834-8842.	1.6	10
4142	Fabrication and characterization of semiconductor nickel oxide (NiO) nanoparticles manufactured using a facile thermal treatment. Results in Physics, 2016, 6, 1024-1030.	2.0	77
4143	Electrospinning Synthesis of Mesoporous MnCoNiO_x@Double-Carbon Nanofibers for Sodium-Ion Battery Anodes with Pseudocapacitive Behavior and Long Cycle Life. ACS Applied Materials & Interfaces, 2016, 8, 34342-34352.	4.0	36
4144	Dimensionality tuning of the electronic structure in Fe3Ga4 magnetic materials. Scientific Reports, 2016, 6, 28364.	1.6	10
4145	One-step pyrolysis synthesis of octahedral Fe₃O₄/C nanocomposites as superior anodes for sodium-ion batteries. CrystEngComm, 2016, 18, 9231-9235.	1.3	14
4146	Catalyst morphology matters for lithiumâ€“oxygen battery cathodes. Nanotechnology, 2016, 27, 495404.	1.3	12
4147	Analytical ABF-STEM imaging of Li ions in rechargeable batteries. Microscopy (Oxford, England), 2016, 66, 25-38.	0.7	11
4148	Chapter 4 Block Copolymer Assisted Sol-Gel Templating. , 2016, , 111-140.		0
4149	Lithium Germanate (Li₂GeO₃): A Highâ€Performance Anode Material for Lithiumâ€Ion Batteries. Angewandte Chemie, 2016, 128, 16293-16297.	1.6	11

#	Article	IF	Citations
4150	Lithium Germanate (Li₂GeO₃): A Highâ€Performance Anode Material for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 16059-16063.	7.2	32
4151	Gravimetric/volumetric capacitances, leakage current, and gas evolution of activated carbon supercapacitors. Electrochimica Acta, 2016, 222, 1153-1159.	2.6	32
4152	Photopolymerization of Diacetylene on Aligned Multiwall Carbon Nanotube Microfibers for High-Performance Energy Devices. ACS Applied Materials & Interfaces, 2016, 8, 32643-32648.	4.0	25
4153	Improved Lithium Ionic Conductivity in Composite Polymer Electrolytes with Oxide-Ion Conducting Nanowires. ACS Nano, 2016, 10, 11407-11413.	7.3	311
4154	Hybrid coordination-network-engineering for bridging cascaded channels to activate long persistent phosphorescence in the second biological window. Scientific Reports, 2016, 6, 20275.	1.6	18
4155	Sputtered Synthesis of MnO2 Nanorods as Binder Free Electrode for High Performance Symmetric Supercapacitors. Electrochimica Acta, 2016, 222, 1761-1769.	2.6	52
4156	Nanostructured energy materials for electrochemical energy conversion and storage: A review. Journal of Energy Chemistry, 2016, 25, 967-984.	7.1	409
4157	Ultrafine MnO2 Nanowire Arrays Grown on Carbon Fibers for High-Performance Supercapacitors. Nanoscale Research Letters, 2016, 11, 469.	3.1	24
4158	The effect of annealing on a 3D SnO2/graphene foam as an advanced lithium-ion battery anode. Scientific Reports, 2016, 6, 19195.	1.6	112
4159	Electrochemical performance of carbon-encapsulated Fe3O4 nanoparticles in lithium-ion batteries: morphology and particle size effects. Electrochimica Acta, 2016, 216, 475-483.	2.6	44
4160	Effect of carbonates addition on Ce0.80Gd0.20O1.90 (GDC) nanorods prepared by wet chemical route for LT-SOFCs. International Journal of Hydrogen Energy, 2016, 41, 22354-22360.	3.8	19
4161	The influence of surface roughness and high pressure torsion on the growth of anodic titania nanotubes on pure titanium. Applied Surface Science, 2016, 387, 1010-1020.	3.1	16
4162	Highly uniform Co9S8 nanoparticles grown on graphene nanosheets as advanced anode materials for improved Li-storage performance. Applied Surface Science, 2016, 390, 86-91.	3.1	23
4163	Macro-mesoporous hollow carbon spheres as anodes for lithium-ion batteries with high rate capability and excellent cycling performance. Journal of Power Sources, 2016, 331, 10-15.	4.0	46
4164	Electrochemical Thin Layers in Nanostructures for Energy Storage. Accounts of Chemical Research, 2016, 49, 2336-2346.	7.6	24
4165	Degradation of Ethylene Carbonate Electrolytes of Lithium Ion Batteries via Ring Opening Activated by LiCoO₂ Cathode Surfaces and Electrolyte Species. ACS Applied Materials & Interfaces, 2016, 8, 26664-26674.	4.0	67
4166	A Topâ€Down Strategy toward 3D Carbon Nanosheet Frameworks Decorated with Hollow Nanostructures for Superior Lithium Storage. Advanced Functional Materials, 2016, 26, 7590-7598.	7.8	201
4167	Study of the glass-to-crystal transformation of the NASICON-type solid electrolyte Li 1+x Al x Ge 2â^'x (PO 4) 3. Solid State Ionics, 2016, 295, 32-40.	1.3	32

#	Article	IF	Citations
4168	Special Synergy between Electrolyte Additives and Positive Electrode Surface Coating to Enhance the Performance of Li[Ni_{0.6}Mn_{0.2}Co_{0.2}]O₂/Graphite Cells. Journal of the Electrochemical Society, 2016, 163, A2531-A2538.	1.3	43
4169	Facile Synthesis of PdAgCo Trimetallic Nanoparticles for Formic Acid Electrochemical Oxidation. Chemistry Letters, 2016, 45, 732-734.	0.7	6
4170	Wearable fiber-shaped energy conversion and storage devices based on aligned carbon nanotubes. Nano Today, 2016, 11, 644-660.	6.2	113
4171	Leveraging valuable synergies by combining alloying and conversion for lithium-ion anodes. Energy and Environmental Science, 2016, 9, 3348-3367.	15.6	202
4172	Spinel CuCo₂O₄Nanoparticles: Facile One-Step Synthesis, Optical, and Electrochemical properties. Materials Research Express, 2016, 3, 095021.	0.8	61
4173	Synthesis of Amorphous TiO₂Nanoparticles with a High Surface Area and Their Transformation to Li₄Ti₅O₁₂Nanoparticles. Chemistry Letters, 2016, 45, 1285-1287.	0.7	5
4174	MnOâ€“nitrogen doped graphene as a durable non-precious hybrid catalyst for the oxygen reduction reaction in anion exchange membrane fuel cells. RSC Advances, 2016, 6, 95590-95600.	1.7	21
4175	Hierarchical mesoporous octahedral K₂Mn_{1â^'x}Co_xFe(CN)₆ as a superior cathode material for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 16205-16212.	5.2	68
4176	Superior Cycle Stability Performance of Quasi-Cuboidal CoV₂O₆ Microstructures as Electrode Material for Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 27291-27297.	4.0	79
4177	Designed synthesis of ordered mesoporous graphene spheres from colloidal nanocrystals and their application as a platform for high-performance lithium-ion battery composite electrodes. Nano Research, 2016, 9, 3757-3771.	5.8	25
4178	Introducing Rolledâ€Up Nanotechnology for Advanced Energy Storage Devices. Advanced Energy Materials, 2016, 6, 1600797.	10.2	49
4179	Microwave-assisted synthesis of functional electrode materials for energy applications. Journal of Solid State Electrochemistry, 2016, 20, 2915-2928.	1.2	32
4180	A computational insight into void-size effects on strength properties of nanoporous materials. Mechanics of Materials, 2016, 101, 102-117.	1.7	21
4181	Electrochemical reduction and capacitance of hybrid titanium dioxidesâ€"nanotube arrays and â€œnanograssâ€• Electrochimica Acta, 2016, 210, 367-374.	2.6	24
4182	Ni- and Mn-Promoted Mesoporous Co₃O₄: A Stable Bifunctional Catalyst with Surface-Structure-Dependent Activity for Oxygen Reduction Reaction and Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2016, 8, 20802-20813.	4.0	191
4183	Shape Analysis of DNAâ€“Au Hybrid Particles by Analytical Ultracentrifugation. ACS Nano, 2016, 10, 7418-7427.	7.3	14
4184	Three-Dimensional Branched TiO2 Architectures in Controllable Bloom for Advanced Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 20040-20047.	4.0	37
4185	LiMn2O4 cathode materials with large porous structure and radial interior channels for lithium ion batteries. Electrochimica Acta, 2016, 212, 553-560.	2.6	38

#	Article	IF	Citations
4186	Fabrication Methods of Graphene Nanoribbons. , 2016, , 151-166.		0
4187	Nanomaterials in Advanced Batteries and Supercapacitors. Nanostructure Science and Technology, 2016, , .	0.1	34
4188	Efficient and accurate approach to modeling the microstructure and defect properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>LaCoO</mml:mtext><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2016, 93, .	1.7	16
4189	Quaternary phase diagrams of spinel<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Li</mml:mi><mml:mi>y</mml:mi></mml:msub><mml:msub><mml:mi>Ni</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 94, .	1.7	7
4190	In situ analyses for ion storage materials. Chemical Society Reviews, 2016, 45, 5717-5770.	18.7	101
4191	A Ni_{1â^'x}Zn_xS/Ni foam composite electrode with multi-layers: one-step synthesis and high supercapacitor performance. Journal of Materials Chemistry A, 2016, 4, 12929-12939.	5.2	52
4192	Conducting Polyaniline Nanowire Arrays Modified Electrode for High Performance Supercapacitor and Enhanced Catalysis of Nitrite Reduction. Electroanalysis, 2016, 28, 2979-2984.	1.5	8
4193	Next-Generation Nanostructured Lithium-Ion Cathode Materials: Critical Challenges for New Directions in R&D. Nanostructure Science and Technology, 2016, , 1-24.	0.1	2
4194	Computational Modelling as a Value Add in Energy Storage Materials. Nanostructure Science and Technology, 2016, , 481-513.	0.1	1
4195	Li2MnSiO4 Nanostructured Cathodes for Rechargeable Lithium-Ion Batteries. Nanostructure Science and Technology, 2016, , 25-54.	0.1	3
4196	Sn-Based Alloy Anode Materials for Lithium-Ion Batteries: Preparation, Multi-scale Structure, and Performance. Nanostructure Science and Technology, 2016, , 93-125.	0.1	1
4197	Transition Metal Oxides as Supercapacitor Materials. Nanostructure Science and Technology, 2016, , 317-344.	0.1	29
4198	A Review of Solid Electrolyte Interphases on Lithium Metal Anode. Advanced Science, 2016, 3, 1500213.	5.6	1,306
4199	Highly effective synthesis of NiO/CNT nanohybrids by atomic layer deposition for high-rate and long-life supercapacitors. Dalton Transactions, 2016, 45, 13779-13786.	1.6	78
4200	Solvothermal synthesis of a silicon hierarchical structure composed of 20 nm Si nanoparticles coated with carbon for high performance Li-ion battery anodes. Dalton Transactions, 2016, 45, 13667-13670.	1.6	13
4201	In Situ Nanoscale Electric Field Control of Magnetism by Nanoionics. Advanced Materials, 2016, 28, 7658-7665.	11.1	52
4202	Differentiation of the non-faradaic and pseudocapacitive electrochemical response of graphite felt/CuFeS2 composite electrodes. Electrochimica Acta, 2016, 212, 979-991.	2.6	26
4203	Reactions of graphene supported Co₃O₄nanocubes with lithium and magnesium studied byin situtransmission electron microscopy. Nanotechnology, 2016, 27, 085402.	1.3	15

#	Article	IF	Citations
4204	Sustainable Nanotechnology: Opportunities and Challenges for Theoretical/Computational Studies. Journal of Physical Chemistry B, 2016, 120, 7297-7306.	1.2	52
4205	Nanoengineering Energy Conversion and Storage Devices via Atomic Layer Deposition. Advanced Energy Materials, 2016, 6, 1600468.	10.2	63
4206	Secondary growth synthesis of ZnSn(OH)₆cube/Zn₂SnO₄nanowire yolkâ€“shell hierarchical structures with enhanced lithium ion storage properties. CrystEngComm, 2016, 18, 6608-6613.	1.3	19
4208	Fabrication and characterization of hybrid films based on polyaniline and graphitic carbon nitride nanosheet. Journal of Applied Polymer Science, 2016, 133, .	1.3	32
4209	A Coreâ€“Shell Fe/Fe₂O₃ Nanowire as a Highâ€Performance Anode Material for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2016, 22, 12081-12087.	1.7	39
4210	The preparation of porous graphite and its application in lithium ion batteries as anode material. Journal of Solid State Electrochemistry, 2016, 20, 2613-2618.	1.2	33
4211	Control of the LiFePO4 electrochemical properties using low-cost iron precursor in a melt process. Journal of Solid State Electrochemistry, 2016, 20, 3481-3490.	1.2	20
4212	Tuning surface porosity on vanadium surface by low energy He+ ion irradiation. Applied Surface Science, 2016, 378, 63-72.	3.1	14
4213	Surfactant-free self-assembly of reduced graphite oxide-MoO2 nanobelt composites used as electrode for lithium-ion batteries. Electrochimica Acta, 2016, 211, 972-981.	2.6	53
4214	Application of Chemical Doping and Architectural Design Principles To Fabricate Nanowire Co₂Ni₃ZnO₈ Arrays for Aqueous Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 20157-20167.	4.0	16
4215	Morphological Evolution of Multilayer Ni/NiO Thin Film Electrodes during Lithiation. ACS Applied Materials & Interfaces, 2016, 8, 19979-19986.	4.0	26
4216	Rational design of sandwich-like exfoliated nickel hydroxideâ€“carbon nanotubes as a novel electrode for supercapacitors. RSC Advances, 2016, 6, 70999-71005.	1.7	4
4217	Vanadium K-Edge X-ray Absorption Spectroscopy as a Probe of the Heterogeneous Lithiation of V₂O₅: First-Principles Modeling and Principal Component Analysis. Journal of Physical Chemistry C, 2016, 120, 23922-23932.	1.5	52
4218	Simultaneous electrochemical deposition of an e-rGO/Î²-CD/MnO₂ ternary composite for a self-powered supercapacitor based caffeine sensor. Analytical Methods, 2016, 8, 7937-7943.	1.3	23
4219	Integral equation prediction of structure of nanocomposites with polymer-grafted nanoparticles near solid surface. Polymer, 2016, 105, 51-63.	1.8	2
4220	Highâ€Performance LiCoO₂ Subâ€Micrometer Materials from Scalable Microparticle Template Processing. ChemistrySelect, 2016, 1, 3992-3999.	0.7	32
4221	Modulation of Crystal Surface and Lattice by Doping: Achieving Ultrafast Metal-Ion Insertion in Anatase TiO₂. ACS Applied Materials & Interfaces, 2016, 8, 29186-29193.	4.0	23
4222	Bimetallic Metal-Organic Frameworks for Controlled Catalytic Graphitization of Nanoporous Carbons. Scientific Reports, 2016, 6, 30295.	1.6	314

#	Article	IF	Citations
4223	Porous carbons produced by the pyrolysisof green onion leaves and their capacitive behavior. New Carbon Materials, 2016, 31, 475-484.	2.9	28
4224	Facile, Water-Based, Directâ€“Deposit Fabrication of Hybrid Silicon Assemblies for Scalable and Highâ€“Performance Liâ€“ion Battery Anodes. Electrochimica Acta, 2016, 222, 946-955.	2.6	5
4225	High-performance supercapacitors and batteries derived from activated banana-peel with porous structures. Electrochimica Acta, 2016, 222, 1257-1266.	2.6	147
4226	Bivalence Mn5O8 with hydroxylated interphase for high-voltage aqueous sodium-ion storage. Nature Communications, 2016, 7, 13370.	5.8	109
4227	Additive-free synthesis of Li₄Ti₅O₁₂ nanowire arrays on freestanding ultrathin graphite as a hybrid anode for flexible lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 19197-19206.	5.2	26
4228	Lithium-ion battery electrolyte mobility at nano-confined graphene interfaces. Nature Communications, 2016, 7, 12693.	5.8	26
4229	3D macroporous electrode and high-performance in lithium-ion batteries using SnO2 coated on Cu foam. Scientific Reports, 2016, 6, 18626.	1.6	48
4230	First-Principles Studies on the Structural Stability of Spinel ZnCo2O4 as an Electrode Material for Lithium-ion Batteries. Scientific Reports, 2016, 6, 36717.	1.6	17
4231	Birnessite-type MnO₂ nanosheet arrays with interwoven arrangements on vapor grown carbon fibers as hybrid nanocomposites for pseudocapacitors. Dalton Transactions, 2016, 45, 19322-19328.	1.6	28
4232	Wearable energy-smart ribbons for synchronous energy harvest and storage. Nature Communications, 2016, 7, 13319.	5.8	147
4233	Unique nanocrystalline frameworks in mesoporous tin phosphate prepared through a hydrofluoric acid assisted chemical reaction. Journal of Materials Chemistry A, 2016, 4, 18091-18099.	5.2	14
4234	Rational Integration of Inbuilt Aperture with Mesoporous Framework in Unusual Asymmetrical Yolkâ€“Shell Structures for Energy Storage and Conversion. ACS Applied Materials & Interfaces, 2016, 8, 32901-32909.	4.0	20
4235	Origin of high storage capacity in N-doped graphene quantum dots. Electrochimica Acta, 2016, 222, 709-716.	2.6	40
4236	Multiscale Hyperporous Silicon Flake Anodes for High Initial Coulombic Efficiency and Cycle Stability. ACS Nano, 2016, 10, 10589-10597.	7.3	95
4237	Frustration of Negative Capacitance in Al2O3/BaTiO3 Bilayer Structure. Scientific Reports, 2016, 6, 19039.	1.6	44
4238	Microbial synthesis of highly dispersed PdAu alloy for enhanced electrocatalysis. Science Advances, 2016, 2, e1600858.	4.7	85
4239	From Chromonic Self-Assembly to Hollow Carbon Nanofibers: Efficient Materials in Supercapacitor and Vapor-Sensing Applications. ACS Applied Materials & Interfaces, 2016, 8, 31231-31238.	4.0	43
4240	Nanoarchitectured Nb2O5 hollow, Nb2O5@carbon and NbO2@carbon Core-Shell Microspheres for Ultrahigh-Rate Intercalation Pseudocapacitors. Scientific Reports, 2016, 6, 21177.	1.6	123

#	Article	IF	Citations
4241	Highly Conductive In-SnO2/RGO Nano-Heterostructures with Improved Lithium-Ion Battery Performance. Scientific Reports, 2016, 6, 25860.	1.6	34
4242	Controlled growth of vertical 3D MoS_{2(1â^'x)}Se_{2x} nanosheets for an efficient and stable hydrogen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 18060-18066.	5.2	76
4243	Flexible ultrathin micro-supercapacitors based on laser-reduced graphene with superior electrochemical performance and aesthetic property. , 2016, , .		1
4244	Preparation of Nickel Cobalt Sulfide Hollow Nanocolloids with Enhanced Electrochemical Property for Supercapacitors Application. Scientific Reports, 2016, 6, 25151.	1.6	47
4245	Manganese Dioxide Supported on Porous Biomorphic Carbons as Hybrid Materials for Energy Storage Devices. ACS Applied Materials & Interfaces, 2016, 8, 30890-30898.	4.0	15
4246	Hierarchical Mesoporous 3D Flower-like CuCo2O4/NF for High-Performance Electrochemical Energy Storage. Scientific Reports, 2016, 6, 31120.	1.6	125
4247	In situ electrical modulation and monitoring of nanoporous gold morphology. Nanoscale, 2016, 8, 19551-19556.	2.8	12
4248	Freestanding three-dimensional coreâ€“shell nanoarrays for lithium-ion battery anodes. Nature Communications, 2016, 7, 11774.	5.8	143
4249	WS₂â€“3D graphene nano-architecture networks for high performance anode materials of lithium ion batteries. RSC Advances, 2016, 6, 107768-107775.	1.7	29
4250	A single-ion conducting and shear-thinning polymer electrolyte based on ionic liquid-decorated PMMA nanoparticles for lithium-metal batteries. Journal of Materials Chemistry A, 2016, 4, 18543-18550.	5.2	66
4251	Energy storage and harvesting in BaTiO ₃ /epoxy nanodielectrics. High Voltage, 2016, 1, 151-157.	2.7	21
4252	One-Pot Synthesis of Lithium-Rich Cathode Material with Hierarchical Morphology. Nano Letters, 2016, 16, 7503-7508.	4.5	42
4253	Mesoscopic Fabric Sheet Racks and Blocks as Catalysts with Efficiently Exposed Surfaces for Methanol and Ethanol Electrooxidation. Advanced Materials Interfaces, 2016, 3, 1600743.	1.9	46
4254	Mesoporous MnNiCoO4@MnO2 core-shell nanowire/nanosheet arrays on flexible carbon cloth for high-performance supercapacitors. Electrochimica Acta, 2016, 222, 505-517.	2.6	61
4255	Facile synthesis of hybrid CNTs/NiCo2S4 composite for high performance supercapacitors. Scientific Reports, 2016, 6, 29788.	1.6	111
4256	Synthesis of TiO₂@C nanospheres with excellent electrochemical properties. RSC Advances, 2016, 6, 108310-108314.	1.7	7
4257	Graphene nanoribbons wrapping double nanoshells of SnO2@TiO2 for high lithium storage. Journal of Power Sources, 2016, 336, 298-306.	4.0	31
4258	Polypyrrole/cellulose nanofiber aerogel as a supercapacitor electrode material. RSC Advances, 2016, 6, 109143-109149.	1.7	27

#	Article	IF	Citations
4259	Nonclassical nucleation and growth of inorganic nanoparticles. Nature Reviews Materials, 2016, 1, .	23.3	343
4260	Growth of conformal graphene cages on micrometre-sized silicon particles as stable battery anodes. Nature Energy, 2016, 1, .	19.8	609
4261	Promises and challenges of nanomaterials for lithium-based rechargeable batteries. Nature Energy, 2016, 1, .	19.8	1,388
4262	Preparation via flocculation of reduced graphene oxide/cationic polyacrylamide composites and their electrochemical properties. RSC Advances, 2016, 6, 103944-103947.	1.7	2
4263	Chemically Integrated Inorganicâ€Graphene Twoâ€Dimensional Hybrid Materials for Flexible Energy Storage Devices. Small, 2016, 12, 6183-6199.	5.2	126
4264	Carbon-Encapsulated Co 3 O 4 @CoO@Co Nanocomposites for Multifunctional Applications in Enhanced Long-life Lithium Storage, Supercapacitor and Oxygen Evolution Reaction. Electrochimica Acta, 2016, 220, 322-330.	2.6	68
4265	Use of Nutrient Rich Hydrophytes to Create N,P-Dually Doped Porous Carbon with Robust Energy Storage Performance. Environmental Science & Technology, 2016, 50, 12421-12428.	4.6	52
4266	Ammonium Fluoride Mediated Synthesis of Anhydrous Metal Fluorideâ€“Mesoporous Carbon Nanocomposites for High-Performance Lithium Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2016, 8, 35180-35190.	4.0	62
4267	Ultrafast diffusion of Ionic Liquids Confined in Carbon Nanotubes. Scientific Reports, 2016, 6, 28518.	1.6	62
4268	Hybrid Î±-Fe2O3@Ni(OH)2 nanosheet composite for high-rate-performance supercapacitor electrode. Scientific Reports, 2016, 6, 31751.	1.6	24
4269	Novel NiCo₂S₄@reduced graphene oxide@carbon nanotube nanocomposites for high performance supercapacitors. RSC Advances, 2016, 6, 100504-100510.	1.7	39
4270	Poly(vinylidene fluoride) separators with dual-asymmetric structure for high-performance lithium ion batteries. Chinese Journal of Polymer Science (English Edition), 2016, 34, 1423-1435.	2.0	25
4271	Porous CoC2O4 Nanorods as High Performance Anode Material for Lithium Ion Batteries. Jom, 2016, 68, 2952-2957.	0.9	10
4272	Engineering 3D bicontinuous hierarchically macro-mesoporous LiFePO4/C nanocomposite for lithium storage with high rate capability and long cycle stability. Scientific Reports, 2016, 6, 25942.	1.6	56
4273	Cross-linked Composite Gel Polymer Electrolyte using Mesoporous Methacrylate-Functionalized SiO2 Nanoparticles for Lithium-Ion Polymer Batteries. Scientific Reports, 2016, 6, 26332.	1.6	176
4274	Hierarchical core-shell NiCo2O4@NiMoO4 nanowires grown on carbon cloth as integrated electrode for high-performance supercapacitors. Scientific Reports, 2016, 6, 31465.	1.6	71
4275	Multiple polymerization â€“ formation of hybrid materials consisting of two or more polymers from one monomer. Polymer Chemistry, 2016, 7, 6826-6833.	1.9	5
4276	Tobacco mosaic virus-templated hierarchical Ni/NiO with high electrochemical charge storage performances. Electrochimica Acta, 2016, 220, 184-192.	2.6	21

#	Article	IF	Citations
4277	High-rate performance of Ti³⁺self-doped TiO₂prepared by imidazole reduction for Li-ion batteries. Nanotechnology, 2016, 27, 435401.	1.3	11
4278	Designed seamless outer surface: Application for high voltage LiNi0.5Mn1.5O4 cathode with excellent cycling stability. Journal of Power Sources, 2016, 336, 307-315.	4.0	18
4279	Graphene Oxide Assisted Synthesis of Self-assembled Zinc Oxide for Lithium-Ion Battery Anode. Chemistry of Materials, 2016, 28, 8498-8503.	3.2	78
4280	Effect of Heteroatoms in Ordered Microporous Carbons on Their Electrochemical Capacitance. Langmuir, 2016, 32, 11997-12004.	1.6	45
4281	Self-assembly formation of Bi-functional Co3O4/MnO2-CNTs hybrid catalysts for achieving both high energy/power density and cyclic ability of rechargeable zinc-air battery. Scientific Reports, 2016, 6, 33590.	1.6	57
4282	Hollow Carbon Cloth Enhances the Performance of Red Phosphorus for Flexible Lithium Ion Battery. Journal of the Electrochemical Society, 2016, 163, A2938-A2942.	1.3	12
4284	Nanostructured current sources based on carbon nanotubes excited by Î² radiation. Semiconductors, 2016, 50, 1744-1747.	0.2	1
4285	Self-assembly growth of alloyed NiPt nanocrystals with holothuria-like shape for oxygen evolution reaction with enhanced catalytic activity. APL Materials, 2016, 4, .	2.2	2
4286	Conversion Reactionâ€Based Oxide Nanomaterials for Lithium Ion Battery Anodes. Small, 2016, 12, 2146-2172.	5.2	405
4287	Ultralong Lifespan and Ultrafast Li Storage: Single-Crystal LiFePO₄Nanomeshes. Small, 2016, 12, 516-523.	5.2	27
4288	Highâ€Performance Sodiumâ€Ion Hybrid Supercapacitor Based on Nb₂O₅@Carbon Coreâ€“Shell Nanoparticles and Reduced Graphene Oxide Nanocomposites. Advanced Functional Materials, 2016, 26, 3711-3719.	7.8	363
4289	Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces. Advanced Materials, 2016, 28, 1940-1949.	11.1	71
4290	Moisture Battery Formed by Direct Contact of Magnesium with Foamed Polyaniline. Angewandte Chemie, 2016, 128, 1837-1841.	1.6	11
4291	A General and Mild Approach to Controllable Preparation of Manganeseâ€Based Microâ€and Nanostructured Bars for High Performance Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 3667-3671.	7.2	89
4292	An Effectively Activated Hierarchical Nanoâ€/Microspherical Li_{1.2}Ni_{0.2}Mn_{0.6}O₂ Cathode for Longâ€Life and Highâ€Rate Lithiumâ€Ion Batteries. ChemSusChem, 2016, 9, 728-735.	3.6	65
4294	Nanostructured Silicon Anodes for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 647-678.	7.8	261
4295	Opening of Bottleneck Pores for the Improvement of Nitrogen Doped Carbon Electrocatalysts. Advanced Energy Materials, 2016, 6, 1502389.	10.2	207
4296	Twoâ€Dimensional Materials for Beyondâ€Lithiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1600025.	10.2	533

#	Article	IF	Citations
4297	Nanostructured Conjugated Polymers for Energyâ€Related Applications beyond Solar Cells. Chemistry - an Asian Journal, 2016, 11, 1489-1511.	1.7	137
4298	Facile Synthesis of Nitrogenâ€Containing Mesoporous Carbon for Highâ€Performance Energy Storage Applications. Chemistry - A European Journal, 2016, 22, 4256-4262.	1.7	17
4299	Direct growth of Fe 3 O 4 -MoO 2 hybrid nanofilm anode with enhanced electrochemical performance in neutral aqueous electrolyte. Progress in Natural Science: Materials International, 2016, 26, 258-263.	1.8	16
4300	N-Doped carbon supported Co₃O₄nanoparticles as an advanced electrocatalyst for the oxygen reduction reaction in Alâ€“air batteries. RSC Advances, 2016, 6, 55552-55559.	1.7	36
4301	Aqua{pentahydrogennitrilotris(methylenephosphonato)}lithium hydrate [Li(H2O){N(CH2PO3)3H5}] â€¢ H2O: Synthesis and structure. Crystallography Reports, 2016, 61, 395-400.	0.1	8
4302	Enhancement of thermoelectric performance of phase pure Zintl compounds Ca1âˆ’Yb Zn2Sb2, Ca1âˆ’Eu Zn2Sb2, and Eu1âˆ’Yb Zn2Sb2 by mechanical alloying and hot pressing. Nano Energy, 2016, 25, 136-144.	8.2	67
4303	Capacitive characteristics of nanocomposites of conducting polypyrrole and functionalized carbon nanotubes: pulse current synthesis and tailoring. Journal of Solid State Electrochemistry, 2016, 20, 1413-1420.	1.2	3
4304	High electrochemical performance of nanostructured CoOOH grown on nickel foam by hydrothermal deposition for application in supercapacitor. Journal of Sol-Gel Science and Technology, 2016, 79, 83-88.	1.1	13
4305	Lithium insertion properties of mesoporous nanocrystalline TiO2 and TiO2â€“V2O5 microspheres prepared by non-hydrolytic solâ€“gel. Journal of Sol-Gel Science and Technology, 2016, 79, 270-278.	1.1	9
4306	Biomass-derived dendritic-like porous carbon aerogels for supercapacitors. Electrochimica Acta, 2016, 210, 897-904.	2.6	42
4307	Direct Mapping of Charge Distribution during Lithiation of Ge Nanowires Using Off-Axis Electron Holography. Nano Letters, 2016, 16, 3748-3753.	4.5	34
4308	Rational confinement of molybdenum based nanodots in porous carbon for highly reversible lithium storage. Journal of Materials Chemistry A, 2016, 4, 10403-10408.	5.2	16
4309	Facile construction of novel CoMoO 4 microplates@CoMoO 4 microprisms structures for well-stable supercapacitors. Progress in Natural Science: Materials International, 2016, 26, 243-252.	1.8	21
4310	MnO2 Nanosheets Grown on Internal Surface of Macroporous Carbon with Enhanced Electrochemical Performance for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2016, 4, 3641-3648.	3.2	33
4311	Influence of TiO₂ surface coating on the electrochemical properties of V₂O₅ micro-particles as a cathode material for lithium ion batteries. RSC Advances, 2016, 6, 53925-53932.	1.7	6
4312	Novel highly conductive ferroferric oxide/porous carbon nanofiber composites prepared by electrospinning as anode materials for high performance Li-ion batteries. RSC Advances, 2016, 6, 58529-58540.	1.7	21
4313	Single crystalline flowerlike Î±-MoO3 nanorods and their application as anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2016, 687, 79-86.	2.8	44
4314	Ionic-liquid mediated synthesis of molybdenum disulfide/graphene composites: An enhanced electrochemical hydrogen evolution catalyst. International Journal of Hydrogen Energy, 2016, 41, 12049-12061.	3.8	35

#	Article	IF	Citations
4315	One-Dimensional Peptide Nanostructure Templated Growth of Iron Phosphate Nanostructures for Lithium-Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2016, 8, 17421-17427.	4.0	14
4316	The Origin of Capacity Fade in the Li₂MnO₃Â·LiMO₂ (M) Tj ETQq1 1 0.784314 rgB Transmission X-ray Microscopy Study. Journal of the American Chemical Society, 2016, 138, 8824-8833.	6.6	96
4317	Hydrothermal synthesis of spherical Li 4 Ti 5 O 12 material for a novel durable Li 4 Ti 5 O 12 /LiMn 2 O 4 full lithium ion battery. Ceramics International, 2016, 42, 14855-14861.	2.3	10
4318	Fabrication and performance evaluation of hybrid supercapacitor electrodes based on carbon nanotubes and sputtered TiO2. Nanotechnology, 2016, 27, 314001.	1.3	20
4319	Polyaniline-cobalt hydroxide hybrid nanostructures and their supercapacitor studies. Materials Chemistry and Physics, 2016, 180, 226-236.	2.0	35
4320	Layered double hydroxide materials coated carbon electrode: New challenge to future electrochemical power devices. Applied Surface Science, 2016, 386, 352-363.	3.1	45
4321	High-coverage stable structures of 3d transition metal intercalated bilayer graphene. Physical Chemistry Chemical Physics, 2016, 18, 14244-14251.	1.3	9
4322	Influence of inactive electrode components on degradation phenomena in nano-Si electrodes for Li-ion batteries. Journal of Power Sources, 2016, 325, 513-524.	4.0	54
4323	Silicon nanoparticles embedded in a porous carbon matrix as a high-performance anode for lithium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 11381-11387.	5.2	86
4324	3 V omni-directionally stretchable one-body supercapacitors based on a single ionâ€“gel matrix and carbon nanotubes. Nanotechnology, 2016, 27, 225402.	1.3	15
4325	A low-cost, high-energy polymer lithium-sulfur cell using a composite electrode and polyethylene oxide (PEO) electrolyte. Ionics, 2016, 22, 2341-2346.	1.2	11
4326	Phase-dependent electrochemistry of TiO2 nanocrystals for supercapacitor applications. Journal of Electroanalytical Chemistry, 2016, 775, 356-363.	1.9	27
4327	Nickel oxalate dihydrate nanorods attached to reduced graphene oxide sheets as a high-capacity anode for rechargeable lithium batteries. NPG Asia Materials, 2016, 8, e270-e270.	3.8	53
4328	Growth mechanism of hollow TiO2(B) nanocrystals as powerful application in lithium-ion batteries. Journal of Alloys and Compounds, 2016, 681, 471-476.	2.8	22
4329	Dual-template ordered mesoporous carbon/Fe₂O₃nanowires as lithium-ion battery anodes. Nanoscale, 2016, 8, 12958-12969.	2.8	72
4330	Spun-wrapped aligned nanofiber (SWAN) lithography for fabrication of micro/nano-structures on 3D objects. Nanoscale, 2016, 8, 12780-12786.	2.8	7
4331	Facile hydrothermal synthesis NiHPO3Â·H2O nanorods, influencing factors, and transformation toward Niâ€“NiO composite nanostructures, catalytic properties and application in sensing for glucose. Journal of Materials Science: Materials in Electronics, 2016, 27, 8416-8427.	1.1	3
4332	In situ development of highly concave and composition-confined PtNi octahedra with high oxygen reduction reaction activity and durability. Nano Research, 2016, 9, 149-157.	5.8	64

#	Article	IF	Citations
4333	Synthesis of hybrid Ni-Co oxide @ 3D carbon skeleton derived from pollen grains for advanced supercapacitors. Electrochimica Acta, 2016, 210, 695-703.	2.6	8
4334	Design, synthesis, and energy-related applications of metal sulfides. Materials Horizons, 2016, 3, 402-421.	6.4	243
4335	Hierarchical networks of redox-active reduced crumpled graphene oxide and functionalized few-walled carbon nanotubes for rapid electrochemical energy storage. Nanoscale, 2016, 8, 12330-12338.	2.8	31
4336	Porous three-dimensional activated microwave exfoliated graphite oxide as an anode material for lithium ion batteries. RSC Advances, 2016, 6, 55176-55181.	1.7	1
4337	Niâ€“Co sulfide nanoboxes with tunable compositions for high-performance electrochemical pseudocapacitors. Journal of Materials Chemistry A, 2016, 4, 10248-10253.	5.2	81
4338	Nitrogen-doped graphene nanosheets decorated Li3V2(PO4)3/C nanocrystals as high-rate and ultralong cycle-life cathode for lithium-ion batteries. Electrochimica Acta, 2016, 210, 45-52.	2.6	66
4339	Bulk synthesis of nanocrystalline urania powders by citrate gel-combustion method. Journal of Nuclear Materials, 2016, 468, 178-193.	1.3	19
4340	Ultrathin Laminar Ir Superstructure as Highly Efficient Oxygen Evolution Electrocatalyst in Broad pH Range. Nano Letters, 2016, 16, 4424-4430.	4.5	339
4341	Lithium-Ion Cells Assembled with Flexible Hybrid Membrane Containing Li⁺-Conducting Lithium Aluminum Germanium Phosphate. Journal of the Electrochemical Society, 2016, 163, A974-A980.	1.3	19
4342	Hierarchically nanostructured carbon-supported manganese oxide for high-performance pseudo-capacitors. Korean Journal of Chemical Engineering, 2016, 33, 2228-2234.	1.2	18
4343	High-performance supercapacitor electrode from cellulose-derived, inter-bonded carbon nanofibers. Journal of Power Sources, 2016, 324, 302-308.	4.0	124
4344	Copper sulfide microspheres wrapped with reduced graphene oxide for high-capacity lithium-ion storage. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 213, 57-62.	1.7	10
4345	Large-scale free-template electrosynthesis of poly(2-chloromethyl-2,3-dihydrothieno[3,4- b) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 262 Tc	2.1	5
4346	3D-Frame Structure NiO@CNTs for Ultrafast Charge Slow Discharge Lithium Ion Batteries. Electrochimica Acta, 2016, 210, 456-461.	2.6	13
4347	Fabrication of TiNb2O7 thin film electrodes for Li-ion micro-batteries by pulsed laser deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 213, 90-97.	1.7	27
4348	A fast response/recovery of hydrophobic Pd/V2O5 thin films for hydrogen gas sensing. Sensors and Actuators B: Chemical, 2016, 236, 16-26.	4.0	78
4349	Highly Tolerant and Durable Adhesion between Hydrogels Utilizing Intercalation of Cationic Substituents into Layered Inorganic Compounds. ACS Macro Letters, 2016, 5, 704-708.	2.3	17
4350	Unconventional supercapacitors from nanocarbon-based electrode materials to device configurations. Chemical Society Reviews, 2016, 45, 4340-4363.	18.7	480

#	Article	IF	Citations
4351	Activated-Nitrogen-Doped Graphene-Based Aerogel Composites as Cathode Materials for High Energy Density Lithium-Ion Supercapacitor. Journal of the Electrochemical Society, 2016, 163, A1736-A1742.	1.3	34
4352	Elucidating Anion Effect on Nanostructural Organization of Dicationic Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry C, 2016, 120, 14402-14409.	1.5	15
4353	Amorphous TiS₃/S/C Composite Positive Electrodes with High Capacity for Rechargeable Lithium Batteries. Journal of the Electrochemical Society, 2016, 163, A1730-A1735.	1.3	7
4354	Optical and dielectric characterisation of Ceria nanocrystals synthesized by an auto-igniting combustion technique. Journal of Materials Science: Materials in Electronics, 2016, 27, 9496-9502.	1.1	5
4355	Nanoparticles-Constructed Spinel Li4Ti5O12 with Extra Surface Lithium Storage Capability towards Advanced Lithium-ion Batteries. Electrochimica Acta, 2016, 211, 119-125.	2.6	29
4356	Low-Cost and High-Productivity Three-Dimensional Nanocapacitors Based on Stand-Up ZnO Nanowires for Energy Storage. Nanoscale Research Letters, 2016, 11, 213.	3.1	18
4357	The preparation and application of mesoporous materials for energy storage. Materials Research Bulletin, 2016, 83, 230-249.	2.7	37
4358	Fabrication of ordered porous silicon nanowires electrode modified with palladium-nickel nanoparticles and electrochemical characteristics in direct alkaline fuel cell of carbohydrates. Ionics, 2016, 22, 1891-1898.	1.2	6
4359	Metal Oxide Nanomaterials with Nitrogenâ€Doped Grapheneâ€Silk Nanofiber Complexes as Templates. Particle and Particle Systems Characterization, 2016, 33, 286-292.	1.2	4
4360	Self-supported phase-pure Ni3S2 sheet-on-rod nanoarrays with enhanced pseudocapacitive properties and high energy density. Journal of Power Sources, 2016, 325, 575-583.	4.0	53
4361	Boric Acid Assisted Reduction of Graphene Oxide: A Promising Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 18860-18866.	4.0	96
4362	Electrochemical oxidation to construct a nickel sulfide/oxide heterostructure with improvement of capacitance. Journal of Materials Chemistry A, 2016, 4, 11611-11615.	5.2	33
4363	Nitrogen-doped carbon-coated Tiâ€“Feâ€“O nanocomposites with enhanced reversible capacity and rate capability for high-performance lithium-ion batteries. RSC Advances, 2016, 6, 65266-65274.	1.7	12
4364	Recent progress in flexible energy storage materials for lithium-ion batteries and electrochemical capacitors: A review. Journal of Materials Research, 2016, 31, 1648-1664.	1.2	32
4365	Influence of annealing temperature on microstructure and lithium storage performance of self-templated Cu_xCo_{3â^'x}O₄ hollow microspheres. RSC Advances, 2016, 6, 62640-62646.	1.7	10
4366	Improvement of Biological Organisms Using Functional Material Shells. Advanced Functional Materials, 2016, 26, 1862-1880.	7.8	81
4367	3D Scaffolded Nickelâ€“Tin Liâ€Ion Anodes with Enhanced Cyclability. Advanced Materials, 2016, 28, 742-747.	11.1	90
4368	High Powerâ€“High Energy Sodium Battery Based on Threefold Interpenetrating Network. Advanced Materials, 2016, 28, 2409-2416.	11.1	205

#	Article	IF	Citations
4369	High Reversible Lithium Storage Capacity and Structural Changes of Fe₂O₃ Nanoparticles Confined inside Carbon Nanotubes. Advanced Energy Materials, 2016, 6, 1501755.	10.2	109
4370	A General and Mild Approach to Controllable Preparation of Manganeseâ€Based Microâ€•and Nanostructured Bars for High Performance Lithiumâ€Ion Batteries. Angewandte Chemie, 2016, 128, 3731-3735.	1.6	5
4371	High permittivity nanocomposites fabricated from electrospun polyimide/BaTiO₃ hybrid nanofibers. Polymer Composites, 2016, 37, 794-801.	2.3	63
4372	Improving catalyst stability in nano-structured solar and fuel cells. Catalysis Today, 2016, 259, 259-265.	2.2	17
4373	Electrical properties and microstructures of (Zn and Nb) co-doped BaTiO 3 ceramics prepared by microwave sintering. Ceramics International, 2016, 42, 7877-7882.	2.3	17
4374	Three-Dimensional Co3O4 Nanowires@Amorphous Ni(OH)2 Ultrathin Nanosheets Hierarchical Structure for Electrochemical Energy Storage. Electrochimica Acta, 2016, 191, 758-766.	2.6	82
4375	Shape-Controlled Synthesis of Co₂P Nanostructures and Their Application in Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 3892-3900.	4.0	319
4376	Uniform Incorporation of Flocculent Molybdenum Disulfide Nanostructure into Three-Dimensional Porous Graphene as an Anode for High-Performance Lithium Ion Batteries and Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 4691-4699.	4.0	99
4377	Chemical synthesis of 3D copper sulfide with different morphologies for high performance supercapacitors application. RSC Advances, 2016, 6, 14844-14851.	1.7	79
4378	Biomimetic smart nanochannels for power harvesting. Nano Research, 2016, 9, 59-71.	5.8	46
4379	Influence of nanoparticle surface chemistry on ion transport in polymer nanocomposite electrolytes. Solid State Ionics, 2016, 286, 57-65.	1.3	24
4380	Monoclinic Li₃V₂(PO₄)₃/C nanocrystals co-modified with graphene nanosheets and carbon nanotubes as a three-dimensional-network cathode material for rechargeable lithium-ion batteries. RSC Advances, 2016, 6, 8431-8439.	1.7	16
4381	Gelatin assisted wet chemistry synthesis of high quality Î²-FeOOH nanorods anchored on graphene nanosheets with superior lithium-ion battery application. RSC Advances, 2016, 6, 17504-17509.	1.7	23
4382	Controlled growth cerium oxide nanoparticles on reduced graphene oxide for oxygen catalytic reduction. Electrochimica Acta, 2016, 191, 669-676.	2.6	42
4383	A coreâ€“shell structured nanocomposite of NiO with carbon nanotubes as positive electrode material of high capacitance for supercapacitors. Materials Research Bulletin, 2016, 74, 241-247.	2.7	36
4384	Facile synthesis of lead iodide nanostructures by microwave irradiation technique and their structural, morphological, photoluminescence and dielectric studies. Journal of Molecular Structure, 2016, 1110, 83-90.	1.8	44
4385	Ultrafast and reversible electrochemical lithiation of InAs nanowires observed by in-situ transmission electron microscopy. Nano Energy, 2016, 20, 194-201.	8.2	19
4386	Coherent polyaniline/graphene oxides/multi-walled carbon nanotubes ternary composites for asymmetric supercapacitors. Electrochimica Acta, 2016, 191, 165-172.	2.6	31

#	Article	IF	Citations
4387	Biomorphic combustion synthesis of hematite porous structure with enhanced Li storage properties. Materials Letters, 2016, 168, 107-110.	1.3	7
4388	In-Situ Crafting of ZnFe₂O₄ Nanoparticles Impregnated within Continuous Carbon Network as Advanced Anode Materials. ACS Nano, 2016, 10, 2728-2735.	7.3	192
4389	Flexible Graphene-Based Supercapacitors: A Review. Journal of Physical Chemistry C, 2016, 120, 4153-4172.	1.5	508
4390	Three-dimensional graphene nanosheets loaded with Si nanoparticles by in situ reduction of SiO2 for lithium ion batteries. Electrochimica Acta, 2016, 190, 628-635.	2.6	47
4391	A high-rate and long cycling life cathode for rechargeable lithium-ion batteries: hollow LiNi0.5Mn0.5O2 nano/micro hierarchical microspheres. Electrochimica Acta, 2016, 191, 974-979.	2.6	28
4392	Tailoring the Interplay between Ternary Composite Binder and Graphite Anodes toward High-Rate and Long-Life Li-Ion Batteries. Electrochimica Acta, 2016, 191, 70-80.	2.6	25
4393	Honeycomb-like mesoporous cobalt nickel phosphate nanospheres as novel materials for high performance supercapacitor. Electrochimica Acta, 2016, 190, 118-125.	2.6	133
4394	One-step solvothermal synthesis of quasi-hexagonal Fe2O3 nanoplates/graphene composite as high performance electrode material for supercapacitor. Electrochimica Acta, 2016, 191, 275-283.	2.6	93
4395	Facile synthesis of a MoO2â€“Mo2Câ€“C composite and its application as favorable anode material for lithium-ion batteries. Journal of Power Sources, 2016, 307, 552-560.	4.0	98
4396	An overview of AB₂O₄- and A₂BO₄-structured negative electrodes for advanced Li-ion batteries. RSC Advances, 2016, 6, 21448-21474.	1.7	76
4397	Potentiodynamical deposition of nanostructured MnO2 film at the assist of electrodeposited SiO2 as template. Electrochimica Acta, 2016, 191, 375-384.	2.6	12
4398	Microbe-derived carbon materials for electrical energy storage and conversion. Journal of Energy Chemistry, 2016, 25, 191-198.	7.1	44
4399	Ultrahigh capacitive performance of three-dimensional electrode nanomaterials based on Î±-MnO2 nanocrystallines induced by doping Au through Ã…-scale channels. Nano Energy, 2016, 21, 39-50.	8.2	29
4400	Nanoparticle chains as electrochemical sensors and electrodes. Analytical and Bioanalytical Chemistry, 2016, 408, 2697-2705.	1.9	7
4401	Laser fabrication of all-solid-state microsupercapacitors with ultrahigh energy and power based on hierarchical pore carbon. Nano Energy, 2016, 21, 90-105.	8.2	65
4402	Smart micro/nanoparticles in stimulus-responsive drug/gene delivery systems. Chemical Society Reviews, 2016, 45, 1457-1501.	18.7	1,152
4403	Encapsulating V₂O₅ into carbon nanotubes enables the synthesis of flexible high-performance lithium ion batteries. Energy and Environmental Science, 2016, 9, 906-911.	15.6	162
4404	One-Step Synthesis of Dendritic Bimetallic PtPd Nanoparticles on Reduced Graphene Oxide and Its Electrocatalytic Properties. Electrochimica Acta, 2016, 188, 845-851.	2.6	88

#	Article	IF	Citations
4405	Electrochemical lithium quasi-intercalation with arsenic. Journal of Solid State Electrochemistry, 2016, 20, 517-523.	1.2	12
4406	Self-assembled graphene oxide on a photo-catalytic active transparent conducting oxide. Materials and Design, 2016, 90, 284-290.	3.3	24
4407	Understanding electrochemical potentials of cathode materials in rechargeable batteries. Materials Today, 2016, 19, 109-123.	8.3	811
4408	Palladiumâ€“iridium nanocrystals for enhancement of electrocatalytic activity toward oxygen reduction reaction. Nano Energy, 2016, 19, 257-268.	8.2	42
4409	Hierarchical structures composed of MnCo₂O₄@MnO₂ coreâ€“shell nanowire arrays with enhanced supercapacitor properties. Dalton Transactions, 2016, 45, 572-578.	1.6	88
4410	Geometrically confined favourable ion packing for high gravimetric capacitance in carbonâ€“ionic liquid supercapacitors. Energy and Environmental Science, 2016, 9, 232-239.	15.6	109
4411	Nitrogen-Doped Carbon-Encapsulated SnO₂@Sn Nanoparticles Uniformly Grafted on Three-Dimensional Graphene-like Networks as Anode for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 197-207.	4.0	84
4412	Facile fabrication of reduced graphene oxide covered ZnCo₂O₄ porous nanowire array hierarchical structure on Ni-foam as a high performance anode for a lithium-ion battery. RSC Advances, 2016, 6, 547-554.	1.7	19
4413	Towards high-efficiency nanoelectrocatalysts for oxygen reduction through engineering advanced carbon nanomaterials. Chemical Society Reviews, 2016, 45, 1273-1307.	18.7	589
4414	Electronic enhancement of hybrid specific capacity of carbon nanotube/bone charcoal composite with Ag nanoparticle decoration. Journal of Electroanalytical Chemistry, 2016, 765, 58-64.	1.9	7
4415	Hydrothermal preparation of ZnO electrodes synthesized from different precursors for electrochemical supercapacitors. Synthetic Metals, 2016, 211, 30-34.	2.1	42
4416	Phosphorus-doped carbonâ€“carbon nanotube hierarchical monoliths as true three-dimensional electrodes in supercapacitor cells. Journal of Materials Chemistry A, 2016, 4, 1251-1263.	5.2	136
4417	Process Investigation of a Solid Carbon-Fueled Solid Oxide Fuel Cell Integrated with a CO₂-Permeating Membrane and a Sintering-Resistant Reverse Boudouard Reaction Catalyst. Energy & Fuels, 2016, 30, 1841-1848.	2.5	16
4418	Electrostatic Assembly of Sandwich-like Ag-C@ZnO-C@Ag-C Hybrid Hollow Microspheres with Excellent High-Rate Lithium Storage Properties. ACS Nano, 2016, 10, 1283-1291.	7.3	109
4419	Electrochemical Impedance Study on Poly(Alkylenedioxy)Thiophene Nanostructures: Solvent and Potential Effect. Nanoscience and Technology, 2016, , 461-476.	1.5	1
4420	Interactions Between Electrolytes and Carbon-Based Materialsâ€”NMR Studies on Electrical Double-Layer Capacitors, Lithium-Ion Batteries, and Fuel Cells. Annual Reports on NMR Spectroscopy, 2016, , 237-318.	0.7	17
4421	High performance electrochemical capacitor materials focusing on nickel based materials. Inorganic Chemistry Frontiers, 2016, 3, 175-202.	3.0	283
4422	Highly ordered mesoporous spinel ZnCo2O4 as a high-performance anode material for lithium-ion batteries. Electrochimica Acta, 2016, 197, 58-67.	2.6	69

#	Article	IF	Citations
4423	Pursuing two-dimensional nanomaterials for flexible lithium-ion batteries. Nano Today, 2016, 11, 82-97.	6.2	73
4424	Controllable growth of MoS2/C flower-like microspheres with enhanced electrochemical performance for lithium ion batteries. Journal of Alloys and Compounds, 2016, 673, 215-219.	2.8	130
4425	Nanowire-templated formation of SnO₂/carbon nanotubes with enhanced lithium storage properties. Nanoscale, 2016, 8, 8384-8389.	2.8	145
4426	A grapheneâ€“SnO2â€“TiO2 ternary nanocomposite electrode as a high stability lithium-ion anode material. Journal of Alloys and Compounds, 2016, 673, 144-148.	2.8	12
4427	Synthesis and electrochemical performance of hole-rich Li 4 Ti 5 O 12 anode material for lithium-ion secondary batteries. Journal of Physics and Chemistry of Solids, 2016, 93, 52-58.	1.9	12
4428	Generalized Fickâ€“Jacobs Approach for Describing Adsorptionâ€“Desorption Kinetics in Irregular Pores under Nonequilibrium Conditions. Journal of Physical Chemistry C, 2016, 120, 7810-7821.	1.5	22
4429	Recent advances in graphene-based hybrid nanostructures for electrochemical energy storage. Nanoscale Horizons, 2016, 1, 340-374.	4.1	92
4430	Fabrication of flexible self-powered UV detectors based on ZnO nanowires and the enhancement by the decoration of Ag nanoparticles. RSC Advances, 2016, 6, 31316-31322.	1.7	27
4431	Nitrogen-doped hierarchical porous carbon derived from block copolymer for supercapacitor. Energy Storage Materials, 2016, 3, 140-148.	9.5	67
4432	Three-dimensional porous hollow microspheres of activated carbon for high-performance electrical double-layer capacitors. Microporous and Mesoporous Materials, 2016, 227, 210-218.	2.2	32
4433	Formation of Hollow Co₃O₄ Nanoparticles on Nitrogenâ€“doped Porous Carbons for Highly Capacitive Performance. ChemistrySelect, 2016, 1, 560-566.	0.7	11
4434	Preparation of PtSn2â€“SnO2/C nanocatalyst and its high performance for methanol electro-oxidation. Chinese Chemical Letters, 2016, 27, 1083-1086.	4.8	16
4435	Plasma Processing of Electrospun Liâ€Ion Battery Separators to Improve Electrolyte Uptake. Plasma Processes and Polymers, 2016, 13, 124-133.	1.6	18
4436	Improved electrochemical performance of Î±-Fe2O3 nanorods and nanotubes confined in carbon nanoshells. Applied Surface Science, 2016, 375, 101-109.	3.1	19
4437	Interfacial effect on the electrochemical properties of the layered graphene/metal sulfide composites as anode materials for Li-ion batteries. Surface Science, 2016, 651, 10-15.	0.8	27
4438	Functionalized, hierarchical and ordered mesoporous carbons for high-performance supercapacitors. Journal of Materials Chemistry A, 2016, 4, 6140-6148.	5.2	32
4439	Ultra high supercapacitance of ultra small Co3O4 nanocubes. Energy, 2016, 103, 481-486.	4.5	40
4440	Carbon coating may expedite the fracture of carbon-coated silicon coreâ€“shell nanoparticles during lithiation. Nanoscale, 2016, 8, 5254-5259.	2.8	50

#	Article	IF	Citations
4441	Biomass derived fabrication of a novel sea cucumber-like LiMn 2 O 4 /C composite with a hierarchical porous structure as the cathode for lithium-ion batteries. Electrochimica Acta, 2016, 188, 645-652.	2.6	18
4442	Effect of doping and crystallite size on the electrochemical performance of Li4Ti5O12. Journal of Alloys and Compounds, 2016, 659, 132-137.	2.8	13
4443	3D interconnected macro-mesoporous electrode with self-assembled NiO nanodots for high-performance supercapacitor-like Li-ion battery. Nano Energy, 2016, 22, 269-277.	8.2	115
4444	In situ synthesized single-crystalline LiMn₂O₄ embedded in carbon nanotube films as free-standing cathodes for Li-ion batteries. RSC Advances, 2016, 6, 22061-22068.	1.7	5
4445	Mesoporous Co₃O₄@carbon composites derived from microporous cobalt-based porous coordination polymers for enhanced electrochemical properties in supercapacitors. RSC Advances, 2016, 6, 18465-18470.	1.7	18
4446	Layer-by-layer assembled (high-energy carbon nanotube/conductive carbon nanotube)_n nanocomposites for high volumetric capacitance supercapacitor electrodes. RSC Advances, 2016, 6, 21844-21853.	1.7	14
4447	Designing Hierarchically Nanostructured Conductive Polymer Gels for Electrochemical Energy Storage and Conversion. Chemistry of Materials, 2016, 28, 2466-2477.	3.2	205
4448	Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices. Nano Letters, 2016, 16, 1523-1529.	4.5	72
4449	Thermoelectric properties of Bi-based Zintl compounds Ca_{1â^'x}Yb_xMg₂Bi₂. Journal of Materials Chemistry A, 2016, 4, 4312-4320.	5.2	92
4450	A New High Energy Lithium ion Batteries Consisting of 0.5Li2MnO3Â·0.5LiMn0.33Ni0.33Co0.33O2 and Soft Carbon Components. Electrochimica Acta, 2016, 194, 1-9.	2.6	9
4451	Self-anchoring dendritic ternary vanadate compound on graphene nanoflake as high-performance conversion-type anode for lithium ion batteries. Nano Energy, 2016, 22, 179-188.	8.2	9
4452	Carbon-encapsulated Mn-doped V2O5 nanorods with long span life for high-power rechargeable lithium batteries. Electrochimica Acta, 2016, 192, 216-226.	2.6	36
4453	Ordered Mesoporous to Macroporous Oxides with Tunable Isomorphic Architectures: Solution Criteria for Persistent Micelle Templates. Chemistry of Materials, 2016, 28, 1653-1667.	3.2	57
4454	Bovine serum albumin assisted synthesis of Fe3O4@C@Mn3O4 multilayer coreâ€“shell porous spheres as anodes for lithium ion battery. Chemical Engineering Journal, 2016, 291, 238-243.	6.6	23
4455	Hierarchical Carbon with High Nitrogen Doping Level: A Versatile Anode and Cathode Host Material for Long-Life Lithium-Ion and Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 10274-10282.	4.0	49
4456	MnO Conversion in Li-Ion Batteries: In Situ Studies and the Role of Mesostructuring. ACS Applied Materials & Interfaces, 2016, 8, 6496-6503.	4.0	31
4457	Synthesis and characterization of NiCo2O4 nanoplates as efficient electrode materials for electrochemical supercapacitors. Applied Surface Science, 2016, 370, 452-458.	3.1	60
4458	Tin nanoparticles encapsulated in graphene backboned carbonaceous foams as high-performance anodes for lithium-ion and sodium-ion storage. Nano Energy, 2016, 22, 232-240.	8.2	136

#	Article	IF	Citations
4459	A controlled solvethermal approach to synthesize nanocrystalline iron oxide for congo red adsorptive removal from aqueous solutions. Journal of Materials Science, 2016, 51, 4481-4494.	1.7	28
4460	Carbon nanotube dispersion in nematic liquid crystals: An overview. Progress in Materials Science, 2016, 80, 38-76.	16.0	157
4461	Nanomanufacturing: A Perspective. ACS Nano, 2016, 10, 2995-3014.	7.3	176
4462	Fluoride additive in epoxide-initiated solâ€“gel synthesis enables thin-film applications of SnO₂ aerogels. RSC Advances, 2016, 6, 21326-21331.	1.7	5
4463	Controlled synthesis of hollow Siâ€“Niâ€“Sn nanoarchitectured electrode for advanced lithium-ion batteries. RSC Advances, 2016, 6, 23260-23264.	1.7	5
4464	High-rate and long-life of Li-ion batteries using reduced graphene oxide/Co₃O₄ as anode materials. RSC Advances, 2016, 6, 24320-24330.	1.7	25
4465	Mechanism for Forming B,C,N,O Rings from NH₃BH₃ and CO₂ via Reaction Discovery Computations. Journal of Physical Chemistry A, 2016, 120, 1135-1144.	1.1	15
4466	High-Performance Pd₃Pb Intermetallic Catalyst for Electrochemical Oxygen Reduction. Nano Letters, 2016, 16, 2560-2566.	4.5	144
4467	Graphene-based materials with tailored nanostructures for energy conversion and storage. Materials Science and Engineering Reports, 2016, 102, 1-72.	14.8	221
4468	Self-assembly of supramolecular triarylamine nanowires in mesoporous silica and biocompatible electrodes thereof. Nanoscale, 2016, 8, 5605-5611.	2.8	7
4469	Template Synthesis of Nanostructured Polymeric Membranes by Inkjet Printing. ACS Applied Materials & Interfaces, 2016, 8, 3386-3395.	4.0	25
4470	Silicon/Wolfram Carbide@Graphene composite: enhancing conductivity and structure stability in amorphous-silicon for high lithium storage performance. Electrochimica Acta, 2016, 191, 462-472.	2.6	32
4471	Improvement of Cycling Performance of Lithiumâ€“Sulfur Batteries by Using Magnesium Oxide as a Functional Additive for Trapping Lithium Polysulfide. ACS Applied Materials & Interfaces, 2016, 8, 4000-4006.	4.0	161
4472	Free-standing Î±-Co(OH)2/graphene oxide thin films fabricated through delamination and reassembling of acetate anions intercalated Î±-Co(OH)2 and graphene oxide in water. Journal of Colloid and Interface Science, 2016, 468, 238-246.	5.0	21
4473	Toward Uniformly Dispersed Battery Electrode Composite Materials: Characteristics and Performance. ACS Applied Materials & Interfaces, 2016, 8, 3452-3463.	4.0	47
4474	Fabrication of carbon-coated NiO supported on graphene for high performance supercapacitors. RSC Advances, 2016, 6, 14199-14204.	1.7	37
4475	Synthesis of Ultrathin Si Nanosheets from Natural Clays for Lithium-Ion Battery Anodes. ACS Nano, 2016, 10, 2843-2851.	7.3	274
4476	Comparative Electrochemical Charge Storage Properties of Bulk and Nanoscale Vanadium Oxide Electrodes. Journal of Solid State Electrochemistry, 2016, 20, 1445-1458.	1.2	27

#	Article	IF	Citations
4477	Amorphous red phosphorous embedded in carbon nanotubes scaffold as promising anode materials for lithium-ion batteries. Journal of Power Sources, 2016, 301, 131-137.	4.0	86
4478	Ab Initio Prediction and Characterization of Mo₂C Monolayer as Anodes for Lithium-Ion and Sodium-Ion Batteries. Journal of Physical Chemistry Letters, 2016, 7, 937-943.	2.1	334
4479	Pressure-driven opening of carbon nanotubes. Nanoscale, 2016, 8, 6014-6020.	2.8	5
4480	Crystal structure, microstructure and electrochemical properties of hydrothermally synthesised LiMn2O4. CrystEngComm, 2016, 18, 1996-2004.	1.3	13
4481	Growth of NiCo₂O₄@MnMoO₄ Nanocolumn Arrays with Superior Pseudocapacitor Properties. ACS Applied Materials & Interfaces, 2016, 8, 8568-8575.	4.0	100
4482	Scalable preparation of porous micron-SnO2/C composites as high performance anode material for lithium ion battery. Journal of Power Sources, 2016, 309, 238-244.	4.0	61
4483	Controllable Codoping of Nitrogen and Sulfur in Graphene for Highly Efficient Li-Oxygen Batteries and Direct Methanol Fuel Cells. Chemistry of Materials, 2016, 28, 1737-1745.	3.2	132
4484	Controllable synthesis of LiMnPO4 nanocrystals: Morphology evolution and their size-dependent electrochemical properties. Ceramics International, 2016, 42, 8769-8778.	2.3	16
4485	Hydrogenation effects on the lithium ion battery performance of TiOF2. Journal of Power Sources, 2016, 306, 309-316.	4.0	24
4486	Structure analyses using X-ray photoelectron spectroscopy and X-ray absorption near edge structure for amorphous MS3 (M: Ti, Mo) electrodes in all-solid-state lithium batteries. Journal of Power Sources, 2016, 313, 104-111.	4.0	36
4487	Non-aqueous nanoporous gold based supercapacitors with high specific energy. Scripta Materialia, 2016, 116, 76-81.	2.6	22
4488	Hemp-derived activated carbons for supercapacitors. Carbon, 2016, 103, 181-192.	5.4	208
4489	Facile Synthesis and High Capacitive Performance of 3D Hierarchical Ni(OH)2 Microspheres. Electrochimica Acta, 2016, 196, 84-91.	2.6	45
4490	Mixed-carbon-coated LiMn0.4Fe0.6PO4 nanopowders with excellent high rate and low temperature performances for lithium-ion batteries. Electrochimica Acta, 2016, 196, 377-385.	2.6	44
4491	Nanospherical-Like Manganese Monoxide/Reduced Graphene Oxide Composite Synthesized by Electron Beam Radiation as Anode Material for High-Performance Lithium-Ion Batteries. Electrochimica Acta, 2016, 196, 431-439.	2.6	34
4492	Quaternary ammonium functionalized poly(arylene ether sulfone)/poly(vinylpyrrolidone) composite membranes for electrical double-layer capacitors with activated carbon electrodes. Journal of Membrane Science, 2016, 505, 148-156.	4.1	25
4493	On the growth mechanism of electrodeposited PbTe dendrites. CrystEngComm, 2016, 18, 2319-2326.	1.3	8
4494	High-performance lithium storage in an ultrafine manganese fluoride nanorod anode with enhanced electrochemical activation based on conversion reaction. Physical Chemistry Chemical Physics, 2016, 18, 3780-3787.	1.3	15

#	Article	IF	Citations
4495	Effective recycling of manganese oxide cathodes for lithium based batteries. Green Chemistry, 2016, 18, 3414-3421.	4.6	55
4496	A versatile ionic liquid-assisted approach to synthesize hierarchical structures of Î²-Ni(OH) 2 nanosheets for high performance pseudocapacitor. Electrochimica Acta, 2016, 188, 863-870.	2.6	29
4497	Fe3O4 nanoparticles encapsulated in one-dimensional Li4Ti5O12 nanomatrix: An extremely reversible anode for long life and high capacity Li-ion batteries. Nano Energy, 2016, 19, 246-256.	8.2	28
4498	Exchange bias in two-step artificially grown one-dimensional hybrid Coâ€“BiFeO₃coreâ€“shell nanostructures. Nanotechnology, 2016, 27, 045708.	1.3	8
4499	Self-sacrificial template formation of ultrathin single-crystalline ZnMn₂O₄nanoplates with enhanced Li-storage behaviors for Li-ion batteries. RSC Advances, 2016, 6, 2024-2027.	1.7	20
4500	Facile synthesis of porous Li2S@C composites as cathode materials for lithiumâ€“sulfur batteries. Journal of Power Sources, 2016, 306, 200-207.	4.0	71
4501	Hexagonal-layered Na0.7MnO2.05 via solvothermal synthesis as an electrode material for aqueous Na-ion supercapacitors. Materials Chemistry and Physics, 2016, 171, 137-144.	2.0	20
4502	Preparing micro/nano coreâ€“shell sphere CeO2 via a low temperature route for improved lithium storage performance. Materials Letters, 2016, 168, 80-82.	1.3	21
4503	Mixed matrix proton exchange membranes for fuel cells: State of the art and perspectives. Progress in Polymer Science, 2016, 57, 103-152.	11.8	262
4504	Hollandite Structure K_{xâ‰ˆ0.25}IrO₂ Catalyst with Highly Efficient Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2016, 8, 820-826.	4.0	94
4505	Solid Suspension Flow Batteries Using Earth Abundant Materials. ACS Applied Materials & Interfaces, 2016, 8, 1759-1765.	4.0	16
4506	Flexible all solid state supercapacitor with high energy density employing black titania nanoparticles as a conductive agent. Nanoscale, 2016, 8, 4054-4062.	2.8	51
4507	Recycling of graphite anodes for the next generation of lithium ion batteries. Journal of Applied Electrochemistry, 2016, 46, 123-148.	1.5	189
4508	Natural Cellulose Materials for Supercapacitors. Electrochimica Acta, 2016, 192, 251-258.	2.6	44
4509	Investigation of PtNi/C as methanol tolerant electrocatalyst for the oxygen reduction reaction. Journal of Electroanalytical Chemistry, 2016, 763, 10-17.	1.9	27
4510	Perpendicularly Aligned, Anion Conducting Nanochannels in Block Copolymer Electrolyte Films. Chemistry of Materials, 2016, 28, 1377-1389.	3.2	45
4511	Large-scale synthesis of NiO polyhedron nanocrystals as high-performance anode materials for lithium ion batteries. Materials Letters, 2016, 168, 5-8.	1.3	16
4512	First-Principles Design of New Electrodes for Proton-Conducting Solid-Oxide Electrochemical Cells: A-Site Doped Sr₂Fe_{1.5}Mo_{0.5}O_{6â~Î´} Perovskite. Chemistry of Materials, 2016, 28, 490-500.	3.2	86

#	Article	IF	Citations
4513	Template-directed metal oxides for electrochemical energy storage. Energy Storage Materials, 2016, 3, 1-17.	9.5	50
4514	Facile shape control of nano-coaxial Co₃O₄/TiO₂ arrays and the effect of the microstructure on lithium storage capability. New Journal of Chemistry, 2016, 40, 3536-3542.	1.4	8
4515	Preparation of hexagonal ultrathin WO3 nano-ribbons and their electrochemical performance as an anode material in lithium ion batteries. Nano Research, 2016, 9, 435-441.	5.8	64
4516	A simple CaCO 3 -assisted template carbonization method for producing nitrogen doped porous carbons as electrode materials for supercapacitors. Electrochimica Acta, 2016, 188, 757-766.	2.6	48
4517	Structural Transformation of MXene (V₂C, Cr₂C, and Ta₂C) with O Groups during Lithiation: A First-Principles Investigation. ACS Applied Materials & Interfaces, 2016, 8, 74-81.	4.0	159
4518	Highly Stable Siliconâ€“Carbonâ€“Nitrogen Composite Anodes from Silsesquiazane for Rechargeable Lithium-Ion Battery. Journal of Materials Science and Technology, 2016, 32, 195-199.	5.6	16
4519	Concave Bi₂WO₆nanoplates with oxygen vacancies achieving enhanced electrocatalytic oxygen evolution in near-neutral water. Journal of Materials Chemistry A, 2016, 4, 2438-2444.	5.2	96
4520	Facile synthesis of two-dimensional (2D) nanoporous NiO nanosheets from metalâ€“organic frameworks with superior capacitive properties. New Journal of Chemistry, 2016, 40, 1100-1103.	1.4	28
4521	Binder-free graphene as an advanced anode for lithium batteries. Journal of Materials Chemistry A, 2016, 4, 6886-6895.	5.2	79
4522	Hierarchical sandwich-type tungsten trioxide nanoplatelets/graphene anode for high-performance lithium-ion batteries with long cycle life. Electrochimica Acta, 2016, 190, 964-971.	2.6	21
4523	Hierarchical sulfur-impregnated hydrogenated TiO₂mesoporous spheres comprising anatase nanosheets with highly exposed (001) facets for advanced Li-S batteries. Nanotechnology, 2016, 27, 045403.	1.3	40
4524	SiO₂â€“carbon nanocomposite anodes with a 3D interconnected network and porous structure from bamboo leaves. RSC Advances, 2016, 6, 1930-1937.	1.7	25
4525	Extremely Stable Polypyrrole Achieved via Molecular Ordering for Highly Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 2435-2440.	4.0	99
4526	Câ€“S@PANI composite with a polymer spherical network structure for high performance lithiumâ€“sulfur batteries. Physical Chemistry Chemical Physics, 2016, 18, 261-266.	1.3	29
4527	Construction of hierarchical ZnCo₂O₄@Ni_xCo_{2x}(OH)_{6x} core/shell nanowire arrays for high-performance supercapacitors. Journal of Materials Chemistry A, 2016, 4, 173-182.	5.2	231
4528	Sulfonated polyaniline decorated graphene nanocomposites as supercapacitor electrodes. Materials Letters, 2016, 166, 12-15.	1.3	36
4529	Controlling the distribution of cobalt (oxide) nanoparticles in the dual pore system of SBA-15 scaffolds. Microporous and Mesoporous Materials, 2016, 224, 176-189.	2.2	11
4530	Solid-State Thin-Film Supercapacitors with Ultrafast Charge/Discharge Based on N-Doped-Carbon-Tubes/Au-Nanoparticles-Doped-MnO₂ Nanocomposites. Nano Letters, 2016, 16, 40-47.	4.5	159

#	Article	IF	Citations
4531	Self-supported electrocatalysts for advanced energy conversion processes. Materials Today, 2016, 19, 265-273.	8.3	268
4532	Graphene-templated formation of 3D tin-based foams for lithium ion storage applications with a long lifespan. Journal of Materials Chemistry A, 2016, 4, 362-367.	5.2	25
4533	3D self-supported nanopine forest-like Co3O4@CoMoO4 coreâ€“shell architectures for high-energy solid state supercapacitors. Nano Energy, 2016, 19, 222-233.	8.2	321
4534	Improvement of the adhesion between polyaniline and commercial carbon paper by acid treatment and its application in supercapacitor electrodes. Composite Interfaces, 2016, 23, 133-143.	1.3	10
4535	SnO and SnOÂ·CoO nanocomposite as high capacity anode materials for lithium ion batteries. Materials Research Bulletin, 2016, 74, 291-298.	2.7	23
4536	Rational design of SnO₂@C nanocomposites for lithium ion batteries by utilizing adsorption properties of MOFs. Chemical Communications, 2016, 52, 717-720.	2.2	69
4537	Fe₃O₄ and Au nanoparticles dispersed on the graphene support as a highly active catalyst toward the reduction of 4-nitrophenol. Physical Chemistry Chemical Physics, 2016, 18, 615-623.	1.3	74
4538	Microwave synthesized self-standing electrode of MoS 2 nanosheets assembled on graphene foam for high-performance Li-Ion and Na-Ion batteries. Journal of Alloys and Compounds, 2016, 660, 11-16.	2.8	64
4539	NiO nanoarrays of a few atoms thickness on 3D nickel network for enhanced pseudocapacitive electrode applications. Journal of Power Sources, 2016, 303, 363-371.	4.0	68
4540	Hierarchical NiMoO₄nanowire arrays supported on macroporous graphene foam as binder-free 3D anodes for high-performance lithium storage. Physical Chemistry Chemical Physics, 2016, 18, 908-915.	1.3	82
4541	SnO2@Graphene Composite Electrodes for the Application in Electrochemical Energy Storage. Springer Theses, 2016, , 123-141.	0.0	1
4542	QCM-D study of nanoparticle interactions. Advances in Colloid and Interface Science, 2016, 233, 94-114.	7.0	145
4543	Controlled synthesis of graphitic carbon-encapsulated Î±-Fe2O3 nanocomposite via low-temperature catalytic graphitization of biomass and its lithium storage property. Electrochimica Acta, 2016, 187, 508-516.	2.6	58
4544	In situ synthesis of carbon incorporated TiO2 with long-term performance as anode for lithium-ion batteries. Journal of Power Sources, 2016, 302, 233-239.	4.0	59
4545	One-dimensional metal oxideâ€“carbon hybrid nanostructures for electrochemical energy storage. Nanoscale Horizons, 2016, 1, 27-40.	4.1	119
4546	Design and synthesis of a 3-D hierarchical molybdenum dioxide/nickel/carbon structured composite with superior cycling performance for lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 605-611.	5.2	30
4547	Synergistic Effect for LiMn2O4Microcubes with Enhanced Rate Capability and Excellent Cycle Stability for Lithium Ion Batteries. Journal of the Electrochemical Society, 2016, 163, A197-A202.	1.3	20
4548	Synthesis and characterization of carbon coated sponge-like tin oxide (SnO_x) films and their application as electrode materials in lithium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 612-619.	5.2	37

#	Article	IF	Citations
4549	Self-assembly of mesoporous ZnCo₂O₄nanomaterials: density functional theory calculation and flexible all-solid-state energy storage. Journal of Materials Chemistry A, 2016, 4, 568-577.	5.2	73
4550	Spinel MnCo2O4 and Spinel-Nanocarbon Hybrids as Bifunctional Catalysts for Alternating Oxygen Reduction and Evolution Reactions. , 2016, , 83-91.		0
4551	Hypergrafted nano-silica modified polymer gel electrolyte for high-performance solid-state supercapacitor. Journal of Solid State Electrochemistry, 2016, 20, 1903-1911.	1.2	11
4552	Review on advances in nanoscale microscopy in cement research. Micron, 2016, 80, 45-58.	1.1	10
4553	Lithium Batteries. , 2016, , .		114
4554	Anodes for Li-Ion Batteries. , 2016, , 323-429.		1
4555	A review of carbon materials and their composites with alloy metals for sodium ion battery anodes. Carbon, 2016, 98, 162-178.	5.4	527
4556	Distinctive slit-shaped porous carbon encapsulating phosphorus as a promising anode material for lithium batteries. Ionics, 2016, 22, 167-172.	1.2	14
4557	Carbon-encapsulated LiMn2O4 spheres prepared using a polymer microgel reactor for high-power lithium-ion batteries. Journal of Power Sources, 2016, 301, 376-385.	4.0	26
4558	Graphene oxide wrapped Na3V2(PO4)3/C nanocomposite as superior cathode material for sodium-ion batteries. Ceramics International, 2016, 42, 820-827.	2.3	32
4559	Performance of La0.6Sr0.4Co1â^'Fe O3 (y=0.2, 0.5 and 0.8) nanostructured cathodes for intermediate-temperature solid-oxide fuel cells: Influence of microstructure and composition. Ceramics International, 2016, 42, 3145-3153.	2.3	23
4560	Growth characteristics and influencing factors of 3D hierarchical flower-like SnS 2 nanostructures and their superior lithium-ion intercalation performance. Journal of Alloys and Compounds, 2016, 658, 190-197.	2.8	56
4561	Low-cost, green synthesis of highly porous carbons derived from lotus root shell as superior performance electrode materials in supercapacitor. Journal of Energy Chemistry, 2016, 25, 26-34.	7.1	50
4562	Impact of deposition and laser densification of Silicalite-1 films on their optical characteristics. Microporous and Mesoporous Materials, 2016, 223, 68-78.	2.2	4
4563	Anatase TiO2 nanotube by electrochemical anodization method: effect of tubes dimension on the supercapacitor application. Ionics, 2016, 22, 99-105.	1.2	19
4564	Nano Devices and Circuit Techniques for Low-Energy Applications and Energy Harvesting. KAIST Research Series, 2016, , .	1.5	7
4565	Targeted synthesis of novel hierarchical sandwiched NiO/C arrays as high-efficiency lithium ion batteries anode. Journal of Power Sources, 2016, 301, 78-86.	4.0	77
4566	Lithium cobalt oxide crystallization on flexible polyimide substrate. Journal of Materials Science: Materials in Electronics, 2016, 27, 631-636.	1.1	3

#	Article	IF	Citations
4567	First-principles investigation of mechanical, thermodynamic and electronic properties of FeSn 5 and CoSn 5 phases. Computational Materials Science, 2016, 111, 175-180.	1.4	11
4568	Anodic electrochemical performances of MgCo 2 O 4 synthesized by oxalate decomposition method and electrospinning technique for Li-ion battery application. Materials Research Bulletin, 2016, 73, 369-376.	2.7	91
4569	Single phase Bunsenite NiO nanoparticles green synthesis by Agathosma betulina natural extract. Journal of Alloys and Compounds, 2016, 657, 655-661.	2.8	206
4570	A nitrogen-containing carbon film derived from vapor phase polymerized polypyrrole as a fast charging/discharging capability anode for lithium-ion batteries. Chemical Communications, 2016, 52, 112-115.	2.2	25
4571	Graphene and Two-Dimensional Transition Metal Dichalcogenide Materials for Energy-Related Applications. KAIST Research Series, 2016, , 253-291.	1.5	0
4572	Activated graphene-derived porous carbon with exceptional gas adsorption properties. Microporous and Mesoporous Materials, 2016, 220, 21-27.	2.2	75
4573	Can the degree of crystallinity of ball-milled Mg‹sub›2‹/sub›Ni intermetallic compound decide its electrochemical characteristics?. Particulate Science and Technology, 2016, 34, 134-142.	1.1	6
4574	Hierarchical macro/mesoporous NiO as stable and fast-charging anode materials for lithium-ion batteries. Microporous and Mesoporous Materials, 2017, 238, 78-83.	2.2	19
4575	Electrocatalytic activity of lithium polysulfides adsorbed into porous TiO2 coated MWCNTs hybrid structure for lithium-sulfur batteries. Scientific Reports, 2017, 7, 40679.	1.6	26
4576	Enhancing dielectric permittivity for energy-storage devices through tricritical phenomenon. Scientific Reports, 2017, 7, 40916.	1.6	96
4577	Nanointerfaceâ€Đriven Reversible Hydrogen Storage in the Nanoconfined Liâ€“Nâ€“H System. Advanced Materials Interfaces, 2017, 4, 1600803.	1.9	30
4578	Embracing Biological Solutions to the Sustainable Energy Challenge. CheM, 2017, 2, 20-51.	5.8	51
4579	Hierarchical flower-like carbon nanosheet assembly with embedded hollow NiCo2O4 nanoparticles for high- performance lithium ion batteries. Applied Surface Science, 2017, 403, 35-42.	3.1	28
4580	In-situ polymerization of magnetic biochar â€“ polypyrrole composite: A novel application in supercapacitor. Biomass and Bioenergy, 2017, 98, 95-111.	2.9	58
4581	Dimensional effects of nanostructured Mg/MgH2 for hydrogen storage applications: A review. Renewable and Sustainable Energy Reviews, 2017, 72, 523-534.	8.2	272
4582	The effect of the micro-structures on the scorpion surface for improving the anti-erosion performance. Surface and Coatings Technology, 2017, 313, 143-150.	2.2	22
4583	Solvothermal preparation of micro/nanostructured TiO2 with enhanced lithium storage capability. Materials Chemistry and Physics, 2017, 190, 202-208.	2.0	7
4584	Hierarchically designed PEDOT encapsulated graphene-MnO 2 nanocomposite as supercapacitors. Materials Research Bulletin, 2017, 88, 218-225.	2.7	18

#	Article	IF	Citations
4585	Wrinkled graphene â€" carbon nanospheres composite for ultra high energy supercapacitors. MRS Advances, 2017, 2, 381-387.	0.5	3
4586	Conducting polythiophene-wrapped Li 4 Ti 5 O 12 spinel anode material for ultralong cycle-life Li-ion batteries. Ceramics International, 2017, 43, 4712-4715.	2.3	15
4587	Self-healing SEI enables full-cell cycling of a silicon-majority anode with a coulombic efficiency exceeding 99.9%. Energy and Environmental Science, 2017, 10, 580-592.	15.6	421
4588	Simultaneous synthesis of NiO/reduced graphene oxide composites by ball milling using bulk Ni and graphite oxide for supercapacitor applications. Journal of Electroanalytical Chemistry, 2017, 786, 14-19.	1.9	52
4589	Highâ€Rate Capable Fullâ€Cell Lithiumâ€Ion Battery based on a Conversion Anode and an Intercalation Cathode. ChemElectroChem, 2017, 4, 686-691.	1.7	11
4590	Graphene-based Composites for Electrochemical Energy Storage. Springer Theses, 2017, , .	0.0	10
4591	Hierarchical architecture of PANI@TiO2/Ti3C2Tx ternary composite electrode for enhanced electrochemical performance. Electrochimica Acta, 2017, 228, 282-289.	2.6	121
4592	Investigation of structural and magnetic properties of Zr-Co doped nickel ferrite nanomaterials. Journal of Magnetism and Magnetic Materials, 2017, 429, 142-147.	1.0	46
4593	Size-controlled synthesis and electrochemical performance of porous Fe₂O₃/SnO₂nanocubes as an anode material for lithium ion batteries. CrystEngComm, 2017, 19, 708-715.	1.3	25
4594	Inhibiting the shuttle effect of Liâ€"S battery with a graphene oxide coating separator: Performance improvement and mechanism study. Journal of Power Sources, 2017, 342, 929-938.	4.0	108
4595	Zeolite-Templated Carbon as an Ordered Microporous Electrode for Aluminum Batteries. ACS Nano, 2017, 11, 1911-1919.	7.3	143
4596	An Advanced All Phosphate Lithium-Ion Battery Providing High Electrochemical Stability, High Rate Capability and Long-Term Cycling Performance. Journal of the Electrochemical Society, 2017, 164, A370-A379.	1.3	8
4597	Excellent electrochemical performances of nanocast ordered mesoporous carbons based on tannin-related polyphenols as supercapacitor electrodes. Journal of Power Sources, 2017, 344, 15-24.	4.0	57
4598	Nanotechnology in Batteries. Journal of Energy Resources Technology, Transactions of the ASME, 2017, 139, .	1.4	15
4599	Highly Conducting Spaced TiO₂ Nanotubes Enable Defined Conformal Coating with Nanocrystalline Nb₂O₅ and High Performance Supercapacitor Applications. Small, 2017, 13, 1603821.	5.2	57
4600	Superior performance of ordered macroporous TiNb 2 O 7 anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. Nano Energy, 2017, 34, 15-25.	8.2	351
4601	From Carbon-Based Nanotubes to Nanocages for Advanced Energy Conversion and Storage. Accounts of Chemical Research, 2017, 50, 435-444.	7.6	196
4602	Template synthesis of CoSe₂/Co₃Se₄ nanotubes: tuning of their crystal structures for photovoltaics and hydrogen evolution in alkaline medium. Journal of Materials Chemistry A, 2017, 5, 4513-4526.	5.2	165

#	Article	IF	Citations
4603	Geogridâ€Inspired Nanostructure to Reinforce a Cu_xZn_ySn_zS Nanowall Electrode for Highâ€Stability Electrochemical Energy Conversion Devices. Advanced Energy Materials, 2017, 7, 1602210.	10.2	14
4604	Electrospun porous nanofibers for electrochemical energy storage. Journal of Materials Science, 2017, 52, 6173-6195.	1.7	50
4605	Enhancement of Li Ion Conductivity by Electrospun Polymer Fibers and Direct Fabrication of Solvent-Free Separator Membranes for Li Ion Batteries. Inorganic Chemistry, 2017, 56, 2100-2107.	1.9	44
4606	2.6 V Aqueous Battery with a Freely Diffusing Electron Acceptor. Journal of Physical Chemistry C, 2017, 121, 3707-3713.	1.5	12
4607	Design of FeS2@rGO composite with enhanced rate and cyclic performances for sodium ion batteries. Electrochimica Acta, 2017, 230, 1-9.	2.6	77
4608	Synthesis of CoMoO 4 @RGO nanocomposites as high-performance supercapacitor electrodes. Microporous and Mesoporous Materials, 2017, 242, 264-270.	2.2	40
4609	MOF-derived multifractal porous carbon with ultrahigh lithium-ion storage performance. Scientific Reports, 2017, 7, 40574.	1.6	36
4610	Intercalated Co(OH)₂-derived flower-like hybrids composed of cobalt sulfide nanoparticles partially embedded in nitrogen-doped carbon nanosheets with superior lithium storage. Journal of Materials Chemistry A, 2017, 5, 3628-3637.	5.2	36
4611	High-Performance Graphene Foam/Fe3O4 Hybrid Electrode for Lithium Ion Battery. Springer Theses, 2017, , 51-63.	0.0	0
4612	Cross-linked fibrous composite separator for high performance lithium-ion batteries with enhanced safety. Journal of Membrane Science, 2017, 527, 129-136.	4.1	73
4613	Solution Synthesis of Iodine-Doped Red Phosphorus Nanoparticles for Lithium-Ion Battery Anodes. Nano Letters, 2017, 17, 1240-1247.	4.5	113
4614	One-pot microwave-assisted colloidal synthesis of Ag2O/ZnO/nanographene platelets composites: Photocatalytic studies. AIP Conference Proceedings, 2017, , .	0.3	4
4615	Ultrathinâ€Nanosheetâ€Induced Synthesis of 3D Transition Metal Oxides Networks for Lithium Ion Battery Anodes. Advanced Functional Materials, 2017, 27, 1605017.	7.8	284
4616	Atomic Insight into the Layered/Spinel Phase Transformation in Charged LiNi_{0.80}Co_{0.15}Al_{0.05}O₂ Cathode Particles. Journal of Physical Chemistry C, 2017, 121, 1421-1430.	1.5	52
4617	Heterometallic molecular precursors for a lithiumâ€“iron oxide material: synthesis, solid state structure, solution and gas-phase behaviour, and thermal decomposition. Dalton Transactions, 2017, 46, 5644-5649.	1.6	23
4618	Design and Fabrication of Petal-Like NiCo₂O₄@NiMoO₄Core/Shell Nanosheet Arrys Electrode for Asymmetric Supercapacitors. Journal of the Electrochemical Society, 2017, 164, A482-A489.	1.3	17
4619	Electrochemical in situ X-ray probing in lithium-ion and sodium-ion batteries. Journal of Materials Science, 2017, 52, 3697-3718.	1.7	36
4620	Carbon-free Solid Dispersion LiCoO2 Redox Couple Characterization and Electrochemical Evaluation for All Solid Dispersion Redox Flow Batteries. Electrochimica Acta, 2017, 228, 91-99.	2.6	20

#	Article	IF	Citations
4621	Free-standing vertically-aligned nitrogen-doped carbon nanotube arrays/graphene as air-breathing electrodes for rechargeable zincâ€“air batteries. Journal of Materials Chemistry A, 2017, 5, 2488-2495.	5.2	83
4622	Nanocomposite composed of multiwall carbon nanotubes covered by hematite nanoparticles as anode material for Li-ion batteries. Electrochimica Acta, 2017, 228, 82-90.	2.6	8
4623	Microwave preparation of 3D flower-like MnO2/Ni(OH)2/nickel foam composite for high-performance supercapacitors. Journal of Alloys and Compounds, 2017, 700, 185-190.	2.8	25
4624	Toward highly stable solid-state unconventional thin-film battery-supercapacitor hybrid devices: Interfacing vertical core-shell array electrodes with a gel polymer electrolyte. Journal of Power Sources, 2017, 342, 1006-1016.	4.0	11
4625	High-rate-capability asymmetric supercapacitor device based on lily-like Co₃O₄nanostructures assembled using nanowires. RSC Advances, 2017, 7, 3752-3759.	1.7	22
4626	Fluorophore Metalâ€“Organic Complexes: High-Throughput Optical Screening for Aprotic Electrochemical Systems. ACS Combinatorial Science, 2017, 19, 81-84.	3.8	1
4627	Few-layer TiO₂â€“B nanosheets with N-doped graphene nanosheets as a highly robust anode for lithium-ion batteries. RSC Advances, 2017, 7, 7864-7869.	1.7	10
4628	A report on 1D MgCo2O4 with enhanced structural, morphological and electrochemical properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 6880-6888.	1.1	29
4629	Enhanced photoelectrochemical properties of Ta-TiO2 nanotube arrays prepared by magnetron sputtering. Vacuum, 2017, 138, 30-38.	1.6	13
4630	Low-Cost High-Energy Potassium Cathode. Journal of the American Chemical Society, 2017, 139, 2164-2167.	6.6	446
4631	Fabrication of free-standing N-doped carbon/TiO2 hierarchical nanofiber films and their application in lithium and sodium storages. Journal of Alloys and Compounds, 2017, 701, 372-379.	2.8	29
4632	1D Colloidal Heteroâ€Nanomaterials with Programmed Semiconductor Morphology and Metal Location for Enhancing Solar Energy Conversion. Small, 2017, 13, 1602629.	5.2	16
4633	Coreâ€“Shell Structure and Interaction Mechanism of Î³â€MnO₂ Coated Sulfur for Improved Lithiumâ€Sulfur Batteries. Small, 2017, 13, 1603466.	5.2	145
4634	A simple approach of constructing sulfur-containing porous carbon nanotubes for high-performance supercapacitors. Carbon, 2017, 115, 754-762.	5.4	50
4635	Graphene Nanoribbons @ Vanadium Oxide Nanostrips for Supercapacitive Energy Storage. Electrochimica Acta, 2017, 230, 255-264.	2.6	38
4636	Theoretically Manipulating Quantum Dots on Two-Dimensional TiO₂ Monolayer for Effective Visible Light Absorption. ACS Applied Materials & Interfaces, 2017, 9, 8255-8262.	4.0	39
4637	Uniform one-pot anchoring of Fe 3 O 4 to defective reduced graphene oxide for enhanced lithium storage. Chemical Engineering Journal, 2017, 317, 890-900.	6.6	34
4638	Construction of cobalt sulfide/graphitic carbon nitride hybrid nanosheet composites for high performance supercapacitor electrodes. Journal of Alloys and Compounds, 2017, 706, 41-47.	2.8	91

#	Article	IF	Citations
4639	Insights on the extraordinary tolerance to alcohols of Fe-N-C cathode catalysts in highly performing direct alcohol fuel cells. Nano Energy, 2017, 34, 195-204.	8.2	113
4640	From single atoms to self-assembled quantum single-atomic nanowires: noble metal atoms on black phosphorene monolayers. Physical Chemistry Chemical Physics, 2017, 19, 7864-7870.	1.3	1
4641	Shedding light on the light-driven lithium ion de-insertion reaction: towards the design of a photo-rechargeable battery. Journal of Materials Chemistry A, 2017, 5, 5927-5933.	5.2	43
4642	Homogeneous/Inhomogeneousâ€Structured Dielectrics and their Energyâ€Storage Performances. Advanced Materials, 2017, 29, 1601727.	11.1	909
4643	Ordered mesoporous carbon-supported CoFe2O4 composite with enhanced lithium storage properties. Journal of Materials Science, 2017, 52, 6265-6279.	1.7	14
4644	Construction of reduced graphene oxide nanofibers and cobalt sulfide nanocomposite for pseudocapacitors with enhanced performance. Journal of Alloys and Compounds, 2017, 706, 126-132.	2.8	55
4645	Tuning Hydrogen and Carbon Nanotube Production from Phenol Steam Reforming on Ni/Fe-Based Nanocatalysts. ACS Sustainable Chemistry and Engineering, 2017, 5, 2098-2108.	3.2	19
4646	Synthesis of porous CoMoO₄nanorods as a bifunctional cathode catalyst for a Liâ€“O₂battery and superior anode for a Li-ion battery. Nanoscale, 2017, 9, 3898-3904.	2.8	60
4648	An upper limit of Cr-doping level to Retain Zero-strain Characteristics of Li4Ti5O12 Anode Material for Li-ion Batteries. Scientific Reports, 2017, 7, 43335.	1.6	29
4649	High Intercalation Pseudocapacitance of Free-Standing T-Nb₂O₅Nanowires@carbon Cloth Hybrid Supercapacitor Electrodes. Journal of the Electrochemical Society, 2017, 164, A820-A825.	1.3	38
4650	Controlled synthesis of Mn3(PO4)2 hollow spheres as biomimetic enzymes for selective detection of superoxide anions released by living cells. Mikrochimica Acta, 2017, 184, 1177-1184.	2.5	22
4651	Facile preparation of carbon wrapped copper telluride nanowires as high performance anodes for sodium and lithium ion batteries. Nanotechnology, 2017, 28, 145403.	1.3	18
4652	Electrolytes for Li- and Na-Ion Batteries: Concepts, Candidates, and the Role of Nanotechnology. , 2017, , 1-43.		10
4653	High-performance lithium-ion batteries with 1.5ÂÎ¼m thin copper nanowire foil as a current collector. Journal of Power Sources, 2017, 346, 40-48.	4.0	73
4654	The exploration of Lanthanum based perovskites and their complementary electrolytes for the supercapacitor applications. Results in Physics, 2017, 7, 920-926.	2.0	97
4655	Rapid prototyping of all-solution-processed multi-lengthscale electrodes using polymer-induced thin film wrinkling. Scientific Reports, 2017, 7, 42543.	1.6	25
4656	Improving electrochemical properties of LiCoO 2 by enhancing thermal decomposition of Cobalt and Lithium carbonates to synthesize ultrafine powders. Ceramics International, 2017, 43, 6494-6501.	2.3	9
4657	Hydrothermally Synthesized Reduced Graphene Oxide-NiWO₄Nanocomposite for Lithium-Ion Battery Anode. Journal of the Electrochemical Society, 2017, 164, A785-A795.	1.3	26

#	Article	IF	Citations
4658	Lithium intercalation mechanism into FeF3Â·0.5H2O as a highly stable composite cathode material. Scientific Reports, 2017, 7, 42237.	1.6	24
4659	Research progress regarding Si-based anode materials towards practical application in high energy density Li-ion batteries. Materials Chemistry Frontiers, 2017, 1, 1691-1708.	3.2	277
4660	Silica-modified SnO2-graphene â€œslimeâ€•for self-enhanced li-ion battery anode. Nano Energy, 2017, 34, 449-455.	8.2	62
4661	State-of-the-art characterization techniques for advanced lithium-ion batteries. Nature Energy, 2017, 2, .	19.8	337
4662	Fabrication of TiO₂@carbon coreâ€“shell nanosheets for advanced lithium-ion batteries with excellent cyclability. Journal of Materials Chemistry A, 2017, 5, 6047-6051.	5.2	30
4663	Quantitative description on structureâ€“property relationships of Li-ion battery materials for high-throughput computations. Science and Technology of Advanced Materials, 2017, 18, 134-146.	2.8	21
4664	Hierarchical porous NiCo₂O₄ nanosheet arrays directly grown on carbon cloth with superior lithium storage performance. Dalton Transactions, 2017, 46, 4717-4723.	1.6	32
4665	First principles investigation of the mechanical, thermodynamic and electronic properties of FeSn5 and CoSn5 intermetallic phases under pressure. Journal of the Korean Physical Society, 2017, 70, 375-381.	0.3	4
4666	A Highly Efficient Co₃O₄ Nanoparticleâ€Incorporated Mesoporous Beta Composite as a Synergistic Catalyst for Oxygen Reduction. ChemElectroChem, 2017, 4, 1279-1286.	1.7	12
4667	Flexible Graphene-Based Composite Films for Supercapacitors with Tunable Areal Capacitance. Electrochimica Acta, 2017, 235, 233-241.	2.6	18
4668	Synthesis and electrochemical performance of hydrothermally synthesized Co3O4 nanostructured particles in presence of urea. Journal of Alloys and Compounds, 2017, 708, 628-638.	2.8	47
4669	Driving Surface Chemistry at the Nanometer Scale Using Localized Heat and Stress. Nano Letters, 2017, 17, 2111-2117.	4.5	35
4670	Concentration of Nitric Acid Strongly Influences Chemical Composition of Graphite Oxide. Chemistry - A European Journal, 2017, 23, 6432-6440.	1.7	24
4671	V2O3 nanoparticles anchored onto the reduced graphene oxide for superior lithium storage. Electrochimica Acta, 2017, 231, 732-738.	2.6	32
4672	Comprehensive Enhancement of Nanostructured Lithium-Ion Battery Cathode Materials via Conformal Graphene Dispersion. Nano Letters, 2017, 17, 2539-2546.	4.5	81
4673	Facile Synthesis of Layer Structured GeP3/C with Stable Chemical Bonding for Enhanced Lithium-Ion Storage. Scientific Reports, 2017, 7, 43582.	1.6	56
4674	Nitrogen doped graphite felt decorated with porous Ni_{1.4}Co_{1.6}S₄ nanosheets for 3D pseudocapacitor electrodes. RSC Advances, 2017, 7, 13406-13415.	1.7	8
4675	Understanding Surface and Interfacial Chemistry in Functional Nanomaterials via Solidâ€State NMR. Advanced Materials, 2017, 29, 1605895.	11.1	91

#	Article	IF	Citations
4676	Mn nanoparticles decorated on the ionic liquid functionalized multiwalled carbon nanotubes as a supercapacitor electrode material. Chemical Engineering Journal, 2017, 316, 928-935.	6.6	23
4677	Integration of Redox Additive in H₂SO₄ Solution and the Adjustment of Potential Windows for Improving the Capacitive Performances of Supercapacitors. Industrial & Engineering Chemistry Research, 2017, 56, 2433-2443.	1.8	26
4678	Nitrogen doped graphene anchored cobalt oxides efficiently bi-functionally catalyze both oxygen reduction reaction and oxygen revolution reaction. International Journal of Hydrogen Energy, 2017, 42, 5899-5907.	3.8	49
4679	One-step hydrothermal synthesis of nitrogen doping graphene based cobalt oxide and its supercapacitive properties. Journal of Alloys and Compounds, 2017, 705, 801-805.	2.8	28
4680	Hexagonal Arrays of Cylindrical Nickel Microstructures for Improved Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 7036-7043.	4.0	21
4681	A Hybrid Molecular Dynamics/Multiconformer Continuum Electrostatics (MD/MCCE) Approach for the Determination of Surface Charge of Nanomaterials. Journal of Physical Chemistry C, 2017, 121, 3584-3596.	1.5	14
4682	Enhanced performance of sulfur-infiltrated bimodal mesoporous carbon foam by chemical solution deposition as cathode materials for lithium sulfur batteries. Scientific Reports, 2017, 7, 42238.	1.6	20
4683	The role of pre-defined microporosity in catalytic site formation for the oxygen reduction reaction in iron- and nitrogen-doped carbon materials. Journal of Materials Chemistry A, 2017, 5, 4199-4206.	5.2	30
4684	Dual Layer Coating Strategy Utilizing N-doped Carbon and Reduced Graphene Oxide for High-Performance LiFePO4 Cathode Material. Electrochimica Acta, 2017, 231, 85-93.	2.6	31
4685	Electrochemical performance investigation of electrospun urchin-like V2O3-CNF composite nanostructure for vanadium redox flow battery. Electrochimica Acta, 2017, 230, 174-180.	2.6	45
4686	Self-branched Î±-MnO₂/Î´-MnO₂ heterojunction nanowires with enhanced pseudocapacitance. Materials Horizons, 2017, 4, 415-422.	6.4	105
4687	Synthesis of graphene sheets from single walled carbon nanohorns: novel conversion from cone to sheet morphology. Materials Research Express, 2017, 4, 035008.	0.8	6
4688	Preparation of High-Purity V₂C MXene and Electrochemical Properties as Li-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A709-A713.	1.3	282
4689	Low-temperature combustion synthesis of hexagonal WO3Â·0.33H2O@C as anode material for lithium ion batteries. Journal of Alloys and Compounds, 2017, 701, 215-221.	2.8	16
4690	Controlled formation of uniform nanoshells of manganese oxide and their potential in lithium ion batteries. Chemical Communications, 2017, 53, 2846-2849.	2.2	16
4691	Application of Electrochemical Liquid Cells for Electrical Energy Storage and Conversion Studies. , 0, , 237-257.		1
4692	Polyaniline silver nanoparticle coffee waste extracted porous graphene oxide nanocomposite structures as novel electrode material for rechargeable batteries. Materials Research Express, 2017, 4, 035501.	0.8	22
4693	A Hollow Tubeâ€onâ€Tube Architecture of Carbonâ€Tubeâ€Supported Nickel Cobalt Sulfide Nanotubes for Advanced Supercapacitors. ChemNanoMat, 2017, 3, 269-276.	1.5	39

#	Article	IF	Citations
4694	Optimization of Design Parameters and Operating Conditions of Electrochemical Capacitors for High Energy and Power Performance. Journal of Electronic Materials, 2017, 46, 1692-1713.	1.0	3
4695	In-situ growth amorphous carbon nanotube on silicon particles as lithium-ion battery anode materials. Journal of Alloys and Compounds, 2017, 708, 500-507.	2.8	41
4696	Low-crystalline iron oxide hydroxide nanoparticle anode for high-performance supercapacitors. Nature Communications, 2017, 8, 14264.	5.8	588
4697	Highly Ordered Mesostructured Vanadium Phosphonate toward Electrode Materials for Lithiumâ€ion Batteries. Chemistry - A European Journal, 2017, 23, 4344-4352.	1.7	30
4698	A general approach for the direct fabrication of metal oxide-based electrocatalysts for efficient bifunctional oxygen electrodes. Sustainable Energy and Fuels, 2017, 1, 823-831.	2.5	24
4699	Graphene supported Li2SiO3/Li4Ti5O12 nanocomposites with improved electrochemical performance as anode material for lithium-ion batteries. Applied Surface Science, 2017, 403, 635-644.	3.1	22
4700	MOF-derived porous ZnO/ZnFe 2 O 4 hybrid nanostructures as advanced anode materials for lithium ion batteries. Materials Letters, 2017, 197, 241-244.	1.3	40
4701	Synthesis of thiospinel CuCo₂S₄and CuCo₂S₄/reduced-graphene oxide nanohybrids as highly effective catalysts for the Sonogashira reaction. New Journal of Chemistry, 2017, 41, 3392-3398.	1.4	10
4702	High-Power-Density Organic Radical Batteries. Topics in Current Chemistry, 2017, 375, 19.	3.0	77
4703	Vertical few-layer graphene/metalized Si-nanocone arrays as 3D electrodes for solid-state supercapacitors with large areal capacitance and superior rate capability. Applied Surface Science, 2017, 404, 238-245.	3.1	23
4704	Flexible full-solid-state supercapacitors based on self-assembly of mesoporous MoSe₂ nanomaterials. Inorganic Chemistry Frontiers, 2017, 4, 675-682.	3.0	37
4705	Graphene-doped carbon/Fe 3 O 4 porous nanofibers with hierarchical band construction as high-performance anodes for lithium-ion batteries. Electrochimica Acta, 2017, 229, 306-315.	2.6	53
4706	Laser Synthesis and Processing of Colloids: Fundamentals and Applications. Chemical Reviews, 2017, 117, 3990-4103.	23.0	965
4707	Purification and Characterization of Reclaimed Electrolytes from Spent Lithium-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 4181-4187.	1.5	79
4708	Advanced rechargeable aluminium ion battery with a high-quality natural graphite cathode. Nature Communications, 2017, 8, 14283.	5.8	453
4709	Carbon-Coated Honeycomb Ni-Mn-Co-O Inverse Opal: A High Capacity Ternary Transition Metal Oxide Anode for Li-ion Batteries. Scientific Reports, 2017, 7, 42263.	1.6	49
4710	Elastic properties of perovskite-type hydrides LiBeH3 and NaBeH3 for hydrogen storage. International Journal of Hydrogen Energy, 2017, 42, 10038-10046.	3.8	45
4711	NiO/CoN Porous Nanowires as Efficient Bifunctional Catalysts for Znâ€“Air Batteries. ACS Nano, 2017, 11, 2275-2283.	7.3	456

#	Article	IF	Citations
4712	A comparative investigation of different chemical treatments on SiO anode materials for lithium-ion batteries: towards long-term stability. RSC Advances, 2017, 7, 4501-4509.	1.7	21
4713	Twoâ€Dimensional Metal Oxide Nanomaterials for Nextâ€Generation Rechargeable Batteries. Advanced Materials, 2017, 29, 1700176.	11.1	317
4714	Hierarchical hollow cages of Mn-Co layered double hydroxide as supercapacitor electrode materials. Applied Surface Science, 2017, 413, 35-40.	3.1	98
4715	Improved electrochemical, mechanical and transport properties of novel lithium bisnonafluoro-1-butanesulfonimidate (LiBNFSI) based solid polymer electrolytes for rechargeable lithium ion batteries. Journal of Industrial and Engineering Chemistry, 2017, 52, 224-234.	2.9	26
4716	Core-shell Li 2 S@Li 3 PS 4 nanoparticles incorporated into graphene aerogel for lithium-sulfur batteries with low potential barrier and overpotential. Journal of Power Sources, 2017, 353, 167-175.	4.0	37
4717	Composite rods based on nanoscale porous silicon in solâ€“gel silica and ormosil matrices for light-emitting applications. Journal of Sol-Gel Science and Technology, 2017, 82, 551-562.	1.1	6
4718	Evaluation and optimization of the magnetoelectric response of CoFe2O4/poly(vinylidene fluoride) composite spheres by computer simulation. Composites Science and Technology, 2017, 146, 119-130.	3.8	23
4719	Facile synthesis of flower-like cobalt sulfide hierarchitectures with superior electrode performance for supercapacitors. Journal of Alloys and Compounds, 2017, 712, 139-146.	2.8	40
4720	Thermomechanical analysis of picograms of polymers using a suspended microchannel cantilever. RSC Advances, 2017, 7, 8415-8420.	1.7	10
4721	Ultralight Cut-Paper-Based Self-Charging Power Unit for Self-Powered Portable Electronic and Medical Systems. ACS Nano, 2017, 11, 4475-4482.	7.3	201
4722	Flexible three-dimensional electrodes of hollow carbon bead strings as graded sulfur reservoirs and the synergistic mechanism for lithiumâ€“sulfur batteries. Applied Surface Science, 2017, 413, 209-218.	3.1	38
4723	Carbon nanotube-graphene nanosheet conductive framework supported SnO2 aerogel as a high performance anode for lithium ion battery. Electrochimica Acta, 2017, 240, 7-15.	2.6	41
4724	Electrodeposition of Highly Porous Pt Nanoparticles Studied by Quantitative 3D Electron Tomography: Influence of Growth Mechanisms and Potential Cycling on the Active Surface Area. ACS Applied Materials & Interfaces, 2017, 9, 16168-16177.	4.0	27
4725	Antibacterial triboelectric membrane-based highly-efficient self-charging supercapacitors. Nano Energy, 2017, 36, 30-37.	8.2	33
4726	Review of measurement techniques and methods for assessing personal exposure to airborne nanomaterials in workplaces. Science of the Total Environment, 2017, 603-604, 793-806.	3.9	69
4727	Facile Synthesis of Porous NiCoO₂Nanosheets as Ultra-High Rate Redox-Capacitive Materials. Journal of the Electrochemical Society, 2017, 164, A1158-A1164.	1.3	13
4728	Hierarchically branched TiO 2 @SnO 2 nanofibers as high performance anodes for lithium-ion batteries. Materials Research Bulletin, 2017, 96, 405-412.	2.7	24
4729	Effect of carbonization conditions of polyaniline on its catalytic activity towards ORR. Some insights about the nature of the active sites. Carbon, 2017, 119, 62-71.	5.4	67

#	Article	IF	Citations
4730	Hierarchical TiO₂ /SnO₂ Hollow Spheres Coated with Graphitized Carbon for High-Performance Electrochemical Li-Ion Storage. Small, 2017, 13, 1604283.	5.2	56
4731	Crystallization of Amphiphilic DNA C-Stars. Nano Letters, 2017, 17, 3276-3281.	4.5	45
4732	Scalable Production of the Siliconâ€“Tin Yin-Yang Hybrid Structure with Graphene Coating for High Performance Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2017, 9, 15388-15393.	4.0	36
4733	Atomic-Scale Structure-Property Relationships in Lithium Ion Battery Electrode Materials. Annual Review of Materials Research, 2017, 47, 175-198.	4.3	23
4734	Healable Transparent Electronic Devices. Advanced Functional Materials, 2017, 27, 1606339.	7.8	118
4735	Transition from Battery to Pseudocapacitor Behavior via Structural Water in Tungsten Oxide. Chemistry of Materials, 2017, 29, 3928-3937.	3.2	175
4736	Metal ion type significantly affects the morphology but not the activity of lipaseâ€“metalâ€“phosphate nanoflowers. RSC Advances, 2017, 7, 25437-25443.	1.7	28
4737	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. Science, 2017, 356, 599-604.	6.0	1,229
4738	Facile Growth of Caterpillar-like NiCo₂S₄ Nanocrystal Arrays on Nickle Foam for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 18774-18781.	4.0	165
4739	Model Based Analysis of One-Dimensional Oriented Lithium-Ion Battery Electrodes. Journal of the Electrochemical Society, 2017, 164, E3114-E3121.	1.3	17
4740	Activated Porous Carbon Spheres with Customized Mesopores through Assembly of Diblock Copolymers for Electrochemical Capacitor. ACS Applied Materials & Interfaces, 2017, 9, 18986-18993.	4.0	69
4741	Atomic-level energy storage mechanism of cobalt hydroxide electrode for pseudocapacitors. Nature Communications, 2017, 8, 15194.	5.8	250
4742	Controllable synthesis of Niâ€“Coâ€“Mn multi-component metal oxides with various morphologies for high-performance flexible supercapacitors. RSC Advances, 2017, 7, 24353-24358.	1.7	41
4743	Flexible freestanding sandwich type ZnO/rGO/ZnO electrode for wearable supercapacitor. Applied Surface Science, 2017, 419, 277-285.	3.1	57
4744	Reduced graphene oxide uniformly anchored with ultrafine CoMn 2 O 4 nanoparticles as advance anode materials for lithium and sodium storage. Journal of Alloys and Compounds, 2017, 716, 30-36.	2.8	27
4745	Carbon coated mesoporous Si anode prepared by a partial magnesiothermic reduction for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 716, 204-209.	2.8	45
4746	Updates on the development of nanostructured transition metal nitrides for electrochemical energy storage and water splitting. Materials Today, 2017, 20, 425-451.	8.3	339
4747	Metal-Organic Framework Template Synthesis of NiCo₂S₄@C Encapsulated in Hollow Nitrogen-Doped Carbon Cubes with Enhanced Electrochemical Performance for Lithium Storage. ACS Applied Materials & Interfaces, 2017, 9, 18178-18186.	4.0	98

#	Article	IF	Citations
4748	Atomic Layer Deposition of Alumina Coatings onto SnS2 for Lithium-Ion Battery Applications. Electrochimica Acta, 2017, 242, 117-124.	2.6	35
4749	High-efficiency and high-power rechargeable lithiumâ€“sulfur dioxide batteries exploiting conventional carbonate-based electrolytes. Nature Communications, 2017, 8, 14989.	5.8	40
4750	Lithium extraction from Chinese salt-lake brines: opportunities, challenges, and future outlook. Environmental Science: Water Research and Technology, 2017, 3, 593-597.	1.2	122
4751	Emerging 3Dâ€Printed Electrochemical Energy Storage Devices: A Critical Review. Advanced Energy Materials, 2017, 7, 1700127.	10.2	300
4752	A Tubular Sandwich-Structured CNT@Ni@Ni₂(CO₃)(OH)₂ with High Stability and Superior Capacity as Hybrid Supercapacitor. Journal of Physical Chemistry C, 2017, 121, 9719-9728.	1.5	39
4753	Three-Dimensional Cobalt Phosphide Nanowire Arrays as Negative Electrode Material for Flexible Solid-State Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 16986-16994.	4.0	113
4754	Mesoporous Silicon Anodes by Using Polybenzimidazole Derived Pyrrolic N-Enriched Carbon toward High-Energy Li-Ion Batteries. ACS Energy Letters, 2017, 2, 1279-1287.	8.8	122
4755	Synergistic Effects of Polypyrrole Nanofibers and Pd Nanoparticles for Improved Electrocatalytic Performance of Pd/PPy Nanocomposites for Ethanol Oxidation. Electrocatalysis, 2017, 8, 329-339.	1.5	23
4756	Highâ€Power Grapheneâ€“Carbon Nanotube Hybrid Supercapacitors. ChemNanoMat, 2017, 3, 436-446.	1.5	39
4757	Freestanding Gold/Grapheneâ€Oxide/Manganese Oxide Microsupercapacitor Displaying High Areal Energy Density. ChemSusChem, 2017, 10, 2736-2741.	3.6	14
4758	Sn Nanoparticles Encapsulated in 3D Nanoporous Carbon Derived from a Metalâ€“Organic Framework for Anode Material in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 17172-17177.	4.0	89
4759	Understanding the role of Co 3 O 4 on stability between active hierarchies and scaffolds: An insight into NiMoO 4 composites for supercapacitors. Applied Surface Science, 2017, 416, 160-167.	3.1	19
4760	Electrochemical performance of polymer electrolytes based on Poly(vinyl alcohol)/Poly(acrylic acid) blend and Pyrrolidinium ionic liquid for lithium rechargeable batteries. Electrochimica Acta, 2017, 240, 371-378.	2.6	30
4761	In Situ Synthesis of Tungsten-Doped SnO₂ and Graphene Nanocomposites for High-Performance Anode Materials of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 17163-17171.	4.0	58
4762	Cubic-shaped WS₂nanopetals on a Prussian blue derived nitrogen-doped carbon nanoporous framework for high performance sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 10406-10415.	5.2	98
4763	Co-SrCO₃/N-doped carbon: a highly efficient hybrid electrocatalyst for the oxygen reduction reaction and Znâ€“air batteries. Inorganic Chemistry Frontiers, 2017, 4, 1073-1086.	3.0	17
4764	Novel Heterogeneous Hybrid of Yolkâ€™Shell CuO@CuFe₂O₄: Facile Synthesis and Enhanced Lithiumâ€Storage Performance. ChemElectroChem, 2017, 4, 2068-2074.	1.7	13
4765	New liquid carbon dioxide based strategy for high energy/power density LiFePO4. Nano Energy, 2017, 36, 398-410.	8.2	49

#	Article	IF	Citations
4766	A PEO-based gel polymer electrolyte for lithium ion batteries. RSC Advances, 2017, 7, 23494-23501.	1.7	186
4767	Palladium decorated silicon carbide nanocauliflowers for hydrogen gas sensing application. Sensors and Actuators B: Chemical, 2017, 242, 694-699.	4.0	44
4768	From biomass chitin to mesoporous nanosheets assembled loofa sponge-like N-doped carbon/g-C 3 N 4 3D network architectures as ultralow-cost bifunctional oxygen catalysts. Microporous and Mesoporous Materials, 2017, 240, 216-226.	2.2	51
4769	High-performance oxygen reduction and evolution carbon catalysis: From mechanistic studies to device integration. Nano Research, 2017, 10, 1163-1177.	5.8	66
4770	Enhancement of the electrochemical capacitance of TiOF 2 obtained via control of the crystal structure. Journal of Industrial and Engineering Chemistry, 2017, 47, 187-193.	2.9	20
4771	Synthesis and electrochemical characterization of TixTayAlzN1-Î´OÎ³ for fuel cell catalyst supports. Journal of Solid State Chemistry, 2017, 246, 293-301.	1.4	1
4772	Graphene-modified copper chromate as the anode of ultrafast rechargeable Li-ion batteries. Journal of Materials Science, 2017, 52, 2131-2141.	1.7	4
4773	Nanostructured Polymer Particles as Additives for High Conductivity, High Modulus Solid Polymer Electrolytes. Macromolecules, 2017, 50, 4699-4706.	2.2	44
4774	A high-performance Li-ion anode from direct deposition of Si nanoparticles. Nano Energy, 2017, 38, 477-485.	8.2	67
4775	Electrochemical Deposition of Conformal and Functional Layers on High Aspect Ratio Silicon Micro/Nanowires. Nano Letters, 2017, 17, 4502-4507.	4.5	50
4776	A 3D hierarchical porous Co₃O₄ nanotube network as an efficient cathode for rechargeable lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2017, 5, 14673-14681.	5.2	50
4777	Structural and optical properties of alumina passivated amorphous Si slanted columnar thin films during electrochemical Li-ion intercalation and deintercalation observed byin situgeneralized spectroscopic ellipsometry. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2017, 35, 031401.	0.6	0
4778	Towards flexible lithium-sulfur battery from natural cotton textile. Electrochimica Acta, 2017, 246, 507-516.	2.6	137
4779	Recent Progress on Advanced Materials for Solidâ€Oxide Fuel Cells Operating Below 500 Â°C. Advanced Materials, 2017, 29, 1700132.	11.1	257
4780	Biogenic Realgar As₄S₄ Molecular Clusters Formed by a Oneâ€Pot Microbialâ€Driven Process as a Liâ€Ion Storage Material. Advanced Sustainable Systems, 2017, 1, 1700056.	2.7	8
4781	Graphene oxide templated nitrogen-doped carbon nanosheets with superior rate capability for sodium ion batteries. Carbon, 2017, 122, 82-91.	5.4	43
4782	Carbon Nanofibers Functionalized with Active Screen Plasma-Deposited Metal Nanoparticles for Electrical Energy Storage Devices. ACS Applied Materials & Interfaces, 2017, 9, 23195-23201.	4.0	24
4783	Recent Progress on Integrated Energy Conversion and Storage Systems. Advanced Science, 2017, 4, 1700104.	5.6	162

#	Article	IF	Citations
4785	Hierarchical Micro/Mesoporous Carbons Synthesized with a ZnO Template and Petroleum Pitch via a Solvent-Free Process for a High-Performance Supercapacitor. ACS Omega, 2017, 2, 2106-2113.	1.6	31
4786	Unique nanopetals of nickel vanadate: crystal structure elucidation and supercapacitive performance. New Journal of Chemistry, 2017, 41, 5620-5627.	1.4	13
4787	Enhanced performance of NiMoO4 nanoparticles and quantum dots and reduced nanohole graphene oxide hybrid for supercapacitor applications. Applied Surface Science, 2017, 419, 624-630.	3.1	18
4788	Nanostructured Na-ion and Li-ion anodes for battery application: A comparative overview. Nano Research, 2017, 10, 3942-3969.	5.8	88
4789	Ternary NiCoP nanoparticles assembled on graphene for high-performance lithium-ion batteries and supercapacitors. RSC Advances, 2017, 7, 26120-26124.	1.7	65
4790	A free-standing and thermostable polymer/plastic crystal electrolyte for all-solid-state lithium batteries. Ionics, 2017, 23, 3339-3345.	1.2	6
4791	Tuning pseudocapacitive and battery-like lithium intercalation in vanadium dioxide/carbon onion hybrids for asymmetric supercapacitor anodes. Journal of Materials Chemistry A, 2017, 5, 13039-13051.	5.2	41
4792	Facile synthesis of orthorhombic LiMnO2 nanorods by in-situ carbothermal reduction: Promising cathode material for Li ion batteries. Ceramics International, 2017, 43, 10585-10589.	2.3	35
4793	Integrated Configuration Design for Ultrafast Rechargeable Dualâ€Ion Battery. Advanced Energy Materials, 2017, 7, 1700913.	10.2	92
4794	Controlling the Number of Atoms on Catalytic Metallic Clusters. Studies in Surface Science and Catalysis, 2017, , 185-220.	1.5	4
4795	Two-dimensional sandwich-like Ag coated silicon-graphene-silicon nanostructures for superior lithium storage. Applied Surface Science, 2017, 425, 614-621.	3.1	18
4796	Nano-sheet-like KNiPO4 as a positive electrode material for aqueous hybrid supercapacitors. Electrochimica Acta, 2017, 246, 963-970.	2.6	15
4797	Stretchable electronic devices using graphene and its hybrid nanostructures. FlatChem, 2017, 3, 71-91.	2.8	34
4798	Solar light driven degradation of post tanning water at heterostructured BiVO4-ZnO mixed oxide catalyst interface. Surfaces and Interfaces, 2017, 8, 147-153.	1.5	14
4799	Ultra-high rate Liâ€“S batteries based on a novel conductive Ni₂P yolkâ€“shell material as the host for the S cathode. Journal of Materials Chemistry A, 2017, 5, 14519-14524.	5.2	86
4800	Porous MoS₂@C heteroshell with a Si yolk structure with improved lithium transport properties and superior cycle stability. Journal of Materials Chemistry A, 2017, 5, 14906-14913.	5.2	32
4801	Controllable synthesis of nickel bicarbonate nanocrystals with high homogeneity for a high-performance supercapacitor. Nanotechnology, 2017, 28, 345401.	1.3	5
4802	Carbonâ€Coated Li₃VO₄ Spheres as Constituents of an Advanced Anode Material for Highâ€Rate Longâ€Life Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1701571.	11.1	119

#	Article	IF	Citations
4803	Alkylated sulfonated poly(arylene sulfone)s for proton exchange membranes. Macromolecular Research, 2017, 25, 400-407.	1.0	5
4804	Pseudocapacitive Li+ intercalation in ZnO/ZnO@C composites enables high-rate lithium-ion storage and stable cyclability. Ceramics International, 2017, 43, 11998-12004.	2.3	28
4805	Novel fabrication of Ni3S2/MnS composite as high performance supercapacitor electrode. Journal of Alloys and Compounds, 2017, 722, 662-668.	2.8	51
4806	Facile electrodepositing processed of RuO2-graphene nanosheets-CNT composites as a binder-free electrode for electrochemical supercapacitors. Electrochimica Acta, 2017, 246, 433-442.	2.6	72
4807	Effect of lattice strain on nanomaterials in energy applications: A perspective on experiment and theory. International Journal of Hydrogen Energy, 2017, 42, 16064-16107.	3.8	12
4808	Needle-like Co Mo O with multi-modal porosity for pseudocapacitors. Materials Chemistry and Physics, 2017, 198, 258-265.	2.0	16
4809	Designing High Dielectric Permittivity Material in Barium Titanate. Journal of Physical Chemistry C, 2017, 121, 13106-13113.	1.5	48
4810	Direct aqueous solution synthesis of an ultra-fine amorphous nickelâ€“boron alloy with superior pseudocapacitive performance for advanced asymmetric supercapacitors. New Journal of Chemistry, 2017, 41, 7302-7311.	1.4	38
4811	High temperature-stability of (Pb 0.9 La 0.1)(Zr 0.65 Ti 0.35)O 3 ceramic for energy-storage applications at finite electric field strength. Scripta Materialia, 2017, 137, 114-118.	2.6	31
4812	Tailoring the morphological properties of anodized Ti 3 SiC 2 for better power density of Li-ion microbatteries. Electrochemistry Communications, 2017, 81, 29-33.	2.3	15
4813	Microwave-assisted citric acid aided synthesis and electrochemical performance of nanosized Co3O4. Electrochimica Acta, 2017, 245, 88-98.	2.6	12
4814	Surface layer design of cathode materials based on mechanical stability towards long cycle life for lithium secondary batteries. Energy Storage Materials, 2017, 8, 141-146.	9.5	35
4815	Interconnected Ni-Co sulfide nanosheet arrays grown on nickel foam as binder-free electrodes for supercapacitors with high areal capacitance. Journal of Alloys and Compounds, 2017, 721, 205-212.	2.8	20
4816	Oxygen reduction in alkaline solution at glassy carbon surfaces and the role of adsorbed intermediates. Journal of Electroanalytical Chemistry, 2017, 799, 53-60.	1.9	26
4817	Red Phosphorus Nanodots on Reduced Graphene Oxide as a Flexible and Ultra-Fast Anode for Sodium-Ion Batteries. ACS Nano, 2017, 11, 5530-5537.	7.3	201
4818	A simple electrochemical route to metallic phase trilayer MoS₂: evaluation as electrocatalysts and supercapacitors. Journal of Materials Chemistry A, 2017, 5, 11316-11330.	5.2	119
4819	High Electroactive Material Loading on a Carbon Nanotube@3D Graphene Aerogel for Highâ€Performance Flexible Allâ€Solidâ€State Asymmetric Supercapacitors. Advanced Functional Materials, 2017, 27, 1701122.	7.8	138
4820	High Volumetric Capacity of Hollow Structured SnO₂@Si Nanospheres for Lithium-Ion Batteries. Nano Letters, 2017, 17, 3959-3964.	4.5	161

#	Article	IF	Citations
4821	Adsorption and Hydrogenation of CO₂ on Rh Nanosized Crystals: Demonstration of the Role of Interfacet Oxygen Spillover and Comparative Studies with O₂, N₂O, and CO. Journal of Physical Chemistry C, 2017, 121, 16238-16249.	1.5	13
4822	Hierarchically structured lithium titanate for ultrafast charging in long-life high capacity batteries. Nature Communications, 2017, 8, 15636.	5.8	117
4823	Designing Pseudocapacitance for Nb₂O₅/Carbide-Derived Carbon Electrodes and Hybrid Devices. Langmuir, 2017, 33, 9407-9415.	1.6	67
4824	Direct characterization of the Li intercalation mechanism into Î±-V2O5 nanowires using in-situ transmission electron microscopy. Applied Physics Letters, 2017, 110, .	1.5	11
4825	Lithium Ion Breathable Electrodes with 3D Hierarchical Architecture for Ultrastable and Highâ€Capacity Lithium Storage. Advanced Functional Materials, 2017, 27, 1700447.	7.8	91
4826	Rapid and Scalable Synthesis of Moâ€Based Binary and Ternary Oxides for Electrochemical Applications. Advanced Functional Materials, 2017, 27, 1700928.	7.8	28
4827	Ionic Liquid Mediated Synthesis of Lath Shaped <scp>CuO</scp> Microâ€Assembles as Extremely Stable Anode Material for Lithiumâ€Ion Batteries. Chinese Journal of Chemistry, 2017, 35, 1299-1304.	2.6	3
4828	Polyacrylonitrile-polyvinylidene fluoride as high-performance composite binder for layered Li-rich oxides. Journal of Power Sources, 2017, 359, 226-233.	4.0	32
4829	O 2 2- /O - functionalized oxygen-deficient Co 3 O 4 nanorods as high performance supercapacitor electrodes and electrocatalysts towards water splitting. Nano Energy, 2017, 38, 155-166.	8.2	294
4830	Construct hierarchical electrode with Ni x Co 3-x S 4 nanosheet coated on NiCo 2 O 4 nanowire arrays grown on carbon fiber paper for high-performance asymmetric supercapacitors. Journal of Power Sources, 2017, 359, 262-269.	4.0	117
4831	Formation of Triboelectric Series via Atomic-Level Surface Functionalization for Triboelectric Energy Harvesting. ACS Nano, 2017, 11, 6131-6138.	7.3	172
4832	Balanced mesoporous nickle cobaltite-graphene and doped carbon electrodes for high-performance asymmetric supercapacitor. Chemical Engineering Journal, 2017, 326, 401-410.	6.6	34
4833	Tailored Solution Combustion Synthesis of High Performance ZnCo₂O₄ Anode Materials for Lithium-Ion Batteries. Industrial & Engineering Chemistry Research, 2017, 56, 7173-7183.	1.8	41
4834	Comparison of the electrochemical performance of iron hexacyanoferrate with high and low quality as cathode materials for aqueous sodium-ion batteries. Chemical Communications, 2017, 53, 6780-6783.	2.2	42
4835	A Cr₂O₃/MWCNTs composite as a superior electrode material for supercapacitor. RSC Advances, 2017, 7, 25019-25024.	1.7	39
4836	Ni Foam-Supported Carbon-Sheathed NiMoO₄ Nanowires as Integrated Electrode for High-Performance Hybrid Supercapacitors. ACS Sustainable Chemistry and Engineering, 2017, 5, 5964-5971.	3.2	61
4837	Recent progress in cobalt-based compounds as high-performance anode materials for lithium ion batteries. Rare Metals, 2017, 36, 307-320.	3.6	30
4838	Silica template-assisted synthesis of SnO₂@porous carbon composites as anode materials with excellent rate capability and cycling stability for lithium-ion batteries. RSC Advances, 2017, 7, 30070-30079.	1.7	29

#	Article	IF	Citations
4839	Preparation of Î³-LiV2O5 from polyoxovanadate cluster Li7[V15O36(CO3)] as a high-performance cathode material and its reaction mechanism revealed by operando XAFS. Journal of Power Sources, 2017, 360, 150-156.	4.0	14
4840	Solid-state supercapacitor based on breath figured polymethyl methacrylate deposited by graphene: the effect of electrode surface. Journal of Materials Science: Materials in Electronics, 2017, 28, 14121-14130.	1.1	10
4841	Flower-like molybdenum disulfide nanosheets grown on carbon nanosheets to form nanocomposites: Novel structure and excellent electrochemical performance. Journal of Alloys and Compounds, 2017, 722, 250-258.	2.8	24
4842	Facile Synthesis of Ni(OH)₂/Carbon Nanofiber Composites for Improving NiZn Battery Cycling Life. ACS Sustainable Chemistry and Engineering, 2017, 5, 6827-6834.	3.2	51
4843	Preparation and pseudocapacitive performance of microporous Co₃O₄â€“Co nanocomposites on Ni foam substrate. New Journal of Chemistry, 2017, 41, 5161-5167.	1.4	9
4844	Performance improvement of all-solid-state Li-S batteries with optimizing morphology and structure of sulfur composite electrode. Journal of Alloys and Compounds, 2017, 723, 787-794.	2.8	44
4845	Synthesis of porous Mn₂O₃ embedded in reduced graphene oxide as advanced anode materials for lithium storage. New Journal of Chemistry, 2017, 41, 7102-7107.	1.4	11
4846	NbSe 3 nanobelts wrapped by reduced graphene oxide for lithium ion battery with enhanced electrochemical performance. Applied Surface Science, 2017, 412, 113-120.	3.1	11
4847	Core-double shell sulfur@carbon black nanosphere@oxidized carbon nanosheet composites as the cathode materials for Li-S batteries. Electrochimica Acta, 2017, 237, 78-86.	2.6	21
4848	Enhancement of electrochemical performance of tin-based anode in lithium ion batteries by polyimide containing amino benzoquinone. Electrochimica Acta, 2017, 235, 429-436.	2.6	4
4849	Structural and chemical synergistic effect of CoS nanoparticles and porous carbon nanorods for high-performance sodium storage. Nano Energy, 2017, 35, 281-289.	8.2	247
4850	Electrochemical performances of MgH2 and MgH2-C films for lithium ion battery anode. Journal of Alloys and Compounds, 2017, 711, 473-479.	2.8	20
4851	Enhancing ionic conductivity in composite polymer electrolytes with well-aligned ceramicÂnanowires. Nature Energy, 2017, 2, .	19.8	763
4852	Novel Methods for Sodiumâ€Ion Battery Materials. Small Methods, 2017, 1, 1600063.	4.6	84
4853	Electrical transport properties of polycrystalline and amorphous TiO 2 Âsingle nanotubes. Nano Structures Nano Objects, 2017, 10, 51-56.	1.9	7
4854	Nitrogen doping in the carbon matrix for Li-ion hybrid supercapacitors: state of the art, challenges and future prospective. RSC Advances, 2017, 7, 18926-18936.	1.7	29
4855	Sc₂C as a Promising Anode Material with High Mobility and Capacity: A Firstâ€Principles Study. ChemPhysChem, 2017, 18, 1627-1634.	1.0	88
4856	In situ real-time investigation of hydrogen-induced structural and optical changes in palladium thin films. Journal of Alloys and Compounds, 2017, 704, 303-310.	2.8	8

#	Article	IF	Citations
4857	Phase change effect on the structural and electrochemical behaviour of pure and doped vanadium pentoxide as positive electrodes for lithium ion batteries. Journal of Power Sources, 2017, 353, 40-50.	4.0	27
4858	Ultrathin mesoporous ZnCo 2 O 4 nanosheets as anode materials for high-performance lithium-ion batteries. Microporous and Mesoporous Materials, 2017, 246, 130-136.	2.2	23
4859	Low temperature synthesis of ternary metal phosphides using plasma for asymmetric supercapacitors. Nano Energy, 2017, 35, 331-340.	8.2	324
4860	A Novel Polar Copolymer Design as a Multi-Functional Binder for Strong Affinity of Polysulfides in Lithium-Sulfur Batteries. Nanoscale Research Letters, 2017, 12, 195.	3.1	30
4861	3D interconnected hierarchically porous N-doped carbon with NH3 activation for efficient oxygen reduction reaction. Applied Catalysis B: Environmental, 2017, 210, 57-66.	10.8	131
4862	Atomic scale investigation of nanocrack evolution in single-crystal and bicrystal metals under compression and shear deformation. Journal of Alloys and Compounds, 2017, 710, 281-291.	2.8	9
4863	Monodispersed Carbon-Coated Cubic NiP₂ Nanoparticles Anchored on Carbon Nanotubes as Ultra-Long-Life Anodes for Reversible Lithium Storage. ACS Nano, 2017, 11, 3705-3715.	7.3	231
4864	Tailoring the (Ni 1/6 Co 1/6 Mn 4/6)CO 3 precursors of Li-rich layered oxides for advanced lithium-ion batteries with the seed-mediated method. Journal of Alloys and Compounds, 2017, 709, 692-699.	2.8	18
4865	Pyridinic and graphitic nitrogen-rich graphene for high-performance supercapacitors and metal-free bifunctional electrocatalysts for ORR and OER. RSC Advances, 2017, 7, 17950-17958.	1.7	123
4866	Evaporation induced nanoparticle â€“ binder interaction in electrode film formation. Physical Chemistry Chemical Physics, 2017, 19, 10051-10061.	1.3	13
4867	Composites of Piezoelectric Materials and Silicon as Anodes for Lithiumâ€ion Batteries. ChemElectroChem, 2017, 4, 1523-1527.	1.7	9
4868	Effects of proton irradiation on structural and electrochemical charge storage properties of TiO₂ nanotube electrodes for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 11815-11824.	5.2	45
4869	Composition-Dependent Pseudocapacitive Properties of Self-Supported Nickel-Based Nanobelts. Journal of Physical Chemistry C, 2017, 121, 7101-7107.	1.5	20
4870	Liquidâ€Crystalâ€Mediated 3D Macrostructured Composite of Co/Co₃O₄ Embedded in Graphene: Freeâ€Standing Electrode for Efficient Water Splitting. Particle and Particle Systems Characterization, 2017, 34, 1600386.	1.2	14
4871	Chitosan: A N-doped carbon source of silicon-based anode material for lithium ion batteries. Ionics, 2017, 23, 2311-2318.	1.2	13
4872	Nitrogen-doped-carbon-coated SnO₂nanoparticles derived from a SnO₂@MOF composite as a lithium ion battery anode material. RSC Advances, 2017, 7, 20062-20067.	1.7	22
4873	Enhanced coercivity in Co-doped Î±-Fe2O3 cubic nanocrystal assemblies prepared via a magnetic field-assisted hydrothermal synthesis. AIP Advances, 2017, 7, .	0.6	7
4874	Cu Nanoparticles on TiN by Electroless Deposition: Surfaceâ€Mediated Diameter Control and Application to Si Nanowires Growth. Helvetica Chimica Acta, 2017, 100, e1700018.	1.0	1

#	Article	IF	Citations
4875	Co 3 V 2 O 8 Hexagonal Pyramid with Tunable Inner Structure as High Performance Anode Materials for Lithium Ion Battery. Electrochimica Acta, 2017, 238, 227-236.	2.6	46
4876	Confined Solid Electrolyte Interphase Growth Space with Solid Polymer Electrolyte in Hollow Structured Silicon Anode for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 13247-13254.	4.0	30
4877	Designed formation of hollow particle-based nitrogen-doped carbon nanofibers for high-performance supercapacitors. Energy and Environmental Science, 2017, 10, 1777-1783.	15.6	782
4878	Diatom silica, an emerging biomaterial for energy conversion and storage. Journal of Materials Chemistry A, 2017, 5, 8847-8859.	5.2	82
4879	Computational design of cobalt-free mixed protonâ€“electron conductors for solid oxide electrochemical cells. Journal of Materials Chemistry A, 2017, 5, 11825-11833.	5.2	57
4880	Free-standing Hierarchical Porous Assemblies of Commercial TiO 2 Nanocrystals and Multi-walled Carbon Nanotubes as High-performance Anode Materials for Sodium Ion Batteries. Electrochimica Acta, 2017, 236, 33-42.	2.6	29
4881	The acceleration intermediate phase (NiS and Ni 3 S 2) evolution by nanocrystallization in Li/NiS 2 thermal batteries with high specific capacity. Journal of Power Sources, 2017, 352, 83-89.	4.0	48
4882	Fe 2 O 3 amorphous nanoparticles/graphene composite as high-performance anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 711, 15-21.	2.8	39
4883	Impact of Silicon Resistivity on the Performance of Silicon Photoanode for Efficient Water Oxidation Reaction. ACS Catalysis, 2017, 7, 3277-3283.	5.5	35
4884	A hierarchical Î±-MoC_{1â^'x}hybrid nanostructure for lithium-ion storage. Journal of Materials Chemistry A, 2017, 5, 8125-8132.	5.2	34
4885	Investigations of aluminum fluoride as a new cathode material for lithium-ion batteries. Journal of Applied Electrochemistry, 2017, 47, 417-431.	1.5	17
4886	Hollow porous CuO/C composite microcubes derived from metal-organic framework templates for highly reversible lithium-ion batteries. Journal of Alloys and Compounds, 2017, 706, 97-102.	2.8	70
4887	Synthesis, Raman spectroscopy and dielectric properties of Ag:Mn co-doped nanostructured PbI 2 for solid state radiation detectors. Journal of Molecular Structure, 2017, 1138, 215-221.	1.8	10
4888	Wettability effect on nanoconfined water flow. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3358-3363.	3.3	407
4889	Self-Assembled Array of Tethered Manganese Oxide Nanoparticles for the Next Generation of Energy Storage. Scientific Reports, 2017, 7, 44191.	1.6	10
4890	Molten salt-directed synthesis method for LiMn2O4 nanorods as a cathode material for a lithium-ion battery with superior cyclability. Materials Research Express, 2017, 4, 025030.	0.8	13
4891	Mesoporous graphene/carbon framework embedded with SnO₂ nanoparticles as a high-performance anode for lithium storage. Inorganic Chemistry Frontiers, 2017, 4, 889-897.	3.0	12
4892	Facile synthesis of ultrathin NiCo₂S₄ nano-petals inspired by blooming buds for high-performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 7144-7152.	5.2	251

#	Article	IF	Citations
4893	Bifunctional Oxygen Electrocatalysis through Chemical Bonding of Transition Metal Chalcogenides on Conductive Carbons. Advanced Energy Materials, 2017, 7, 1602217.	10.2	105
4894	Structural regulation of ZnGa2O4 nanocubes for achieving high capacity and stable rate capability as an anode material of lithium ion batteries. Electrochimica Acta, 2017, 235, 295-303.	2.6	24
4895	First-principles study of H, O, and N adsorption on metal embedded carbon nanotubes. Applied Surface Science, 2017, 403, 645-651.	3.1	6
4896	High microporosity of carbide-derived carbon prepared from a vacuum-treated precursor for energy storage devices. Carbon, 2017, 118, 327-338.	5.4	11
4897	Poly (vinylidene fluoride) based percolative dielectrics with tunable coating of polydopamine on carbon nanotubes: Toward high permittivity and low dielectric loss. Composites Science and Technology, 2017, 144, 79-88.	3.8	116
4898	Strength properties of nanoporous materials: A 3-layered based non-linear homogenization approach with interface effects. International Journal of Engineering Science, 2017, 115, 28-42.	2.7	18
4899	Recent advances and remaining challenges of nanostructured materials for hydrogen storage applications. Progress in Materials Science, 2017, 88, 1-48.	16.0	526
4900	Recent progress in layered metal dichalcogenide nanostructures as electrodes for high-performance sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 7667-7690.	5.2	144
4901	Facile synthesis of nanoporous Li_{1+x}V_{1â^'x}O₂@C composites as promising anode materials for lithium-ion batteries. Physical Chemistry Chemical Physics, 2017, 19, 9156-9163.	1.3	2
4902	Plasma processes in the preparation of lithium-ion battery electrodes and separators. Journal Physics D: Applied Physics, 2017, 50, 163001.	1.3	10
4903	Phosphorus nanoparticles combined with cubic boron nitride and graphene as stable sodium-ion battery anodes. Electrochimica Acta, 2017, 235, 150-157.	2.6	34
4904	Structural Exfoliation of Layered Cathode under High Voltage and Its Suppression by Interface Film Derived from Electrolyte Additive. ACS Applied Materials & Interfaces, 2017, 9, 12021-12034.	4.0	62
4905	A Tunable 3D Nanostructured Conductive Gel Framework Electrode for Highâ€Performance Lithium Ion Batteries. Advanced Materials, 2017, 29, 1603922.	11.1	175
4906	Silicene: A Promising Anode for Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1606716.	11.1	179
4907	Improving biomass-derived carbon by activation with nitrogen and cobalt for supercapacitors and oxygen reduction reaction. Applied Surface Science, 2017, 411, 251-260.	3.1	81
4908	Lithium vanadate nanowires@reduced graphene oxide nanocomposites on titanium foil with super high capacities for lithium-ion batteries. Journal of Colloid and Interface Science, 2017, 498, 210-216.	5.0	15
4909	Molecular investigation of water adsorption on graphene and graphyne surfaces. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 90, 123-130.	1.3	8
4910	Highly Ordered Macroporous Electrodes. , 2017, , 143-206.		6

#	Article	IF	Citations
4911	Biomass Organs Control the Porosity of Their Pyrolyzed Carbon. Advanced Functional Materials, 2017, 27, 1604687.	7.8	154
4912	A Review on Design Strategies for Carbon Based Metal Oxides and Sulfides Nanocomposites for High Performance Li and Na Ion Battery Anodes. Advanced Energy Materials, 2017, 7, 1601424.	10.2	486
4913	Controllable synthesis of various V2O5micro-/nanostructures as high performance cathodes for lithium ion batteries. CrystEngComm, 2017, 19, 716-721.	1.3	8
4914	Soya derived heteroatom doped carbon as a promising platform for oxygen reduction, supercapacitor and CO2 capture. Carbon, 2017, 114, 679-689.	5.4	134
4915	Porous sulfated metal oxide SO4 2â˜/Fe2O3 as an anode material for Li-ion batteries with enhanced electrochemical performance. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	5
4916	One-pot synthesis of holey MoS2 nanostructures as efficient electrocatalysts for hydrogen evolution. Applied Surface Science, 2017, 396, 1719-1725.	3.1	17
4917	Improved Catalysis of Green-Synthesized Pd-Ag Alloy-Nanoparticles for Anodic Oxidation of Methanol in Alkali. Electrochimica Acta, 2017, 225, 310-321.	2.6	63
4918	Carbonâ€Assisted Technique to Modify the Surface of Recycled Silicon/Silicon Carbide Composite for Lithiumâ€Ion Batteries. Energy Technology, 2017, 5, 1415-1422.	1.8	7
4919	Synthesis and charge storage properties of templated LaMnO₃â€“SiO₂ composite materials. Dalton Transactions, 2017, 46, 977-984.	1.6	17
4920	Neural-Network-Biased Genetic Algorithms for Materials Design: Evolutionary Algorithms That Learn. ACS Combinatorial Science, 2017, 19, 96-107.	3.8	86
4921	Large-area printed supercapacitor technology for low-cost domestic green energy storage. Energy, 2017, 118, 1313-1321.	4.5	58
4922	Microwave-assisted synthesis of Gd3+ doped PbI2 hierarchical nanostructures for optoelectronic and radiation detection applications. Physica B: Condensed Matter, 2017, 508, 41-46.	1.3	51
4923	Void initiation from interfacial debonding of spherical silicon particles inside a silicon-copper nanocomposite: a molecular dynamics study. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 025007.	0.8	17
4924	Bulk-Type All-Solid-State Lithium-Ion Batteries: Remarkable Performances of a Carbon Nanofiber-Supported MgH₂ Composite Electrode. ACS Applied Materials & Interfaces, 2017, 9, 2261-2266.	4.0	45
4925	Ultrafast charge/discharge solid-state thin-film supercapacitors via regulating the microstructure of transition-metal-oxide. Journal of Materials Chemistry A, 2017, 5, 2759-2767.	5.2	45
4926	Synergistically Enhanced Electrochemical Performance of Hierarchical MoS₂/TiNb₂O₇ Hetero-nanostructures as Anode Materials for Li-Ion Batteries. ACS Nano, 2017, 11, 1026-1033.	7.3	89
4927	Electrochemical properties of Sn/C nanoparticles fabricated by redox treatment and pulsed wire evaporation method. Applied Surface Science, 2017, 415, 14-18.	3.1	6
4928	MnO nanoparticles@continuous carbon nanosheets for high performance lithium ion battery anodes. Materials Letters, 2017, 189, 236-239.	1.3	15

#	Article	IF	Citations
4929	One-pot synthesis of ultrafine decahedral platinum crystal decorated graphite nanosheets for the electro-oxidation of formic acid. Journal of Catalysis, 2017, 345, 70-77.	3.1	13
4930	Nitrogen-doped hollow mesoporous carbon spheres as a highly active and stable metal-free electrocatalyst for oxygen reduction. Carbon, 2017, 114, 177-186.	5.4	122
4931	A Novel and Generalized Lithiumâ€Ionâ€Battery Configuration utilizing Al Foil as Both Anode and Current Collector for Enhanced Energy Density. Advanced Materials, 2017, 29, 1604219.	11.1	128
4932	Porous Tetrametallic PtCuBiMn Nanosheets with a High Catalytic Activity and Methanol Tolerance Limit for Oxygen Reduction Reactions. Advanced Materials, 2017, 29, 1604994.	11.1	84
4933	Multifunctional structural supercapacitor based on graphene and geopolymer. Electrochimica Acta, 2017, 224, 105-112.	2.6	51
4934	Tuning the Electronic Bandgap: An Efficient Way To Improve the Electrocatalytic Activity of Carbonâ€Supported Co₃O₄ Nanocrystals for Oxygen Reduction Reactions. Chemistry - A European Journal, 2017, 23, 2599-2609.	1.7	42
4935	Ferric citrate-derived N-doped hierarchical porous carbons for oxygen reduction reaction and electrochemical supercapacitors. Carbon, 2017, 115, 1-10.	5.4	102
4936	Template-free synthesis of hierarchical mixed-metal cobaltites: Electrocapacitive and Theoretical study. Electrochimica Acta, 2017, 225, 514-524.	2.6	26
4937	Detonation nanodiamond introduced into samarium doped ceria electrolyte improving performance of solid oxide fuel cell. Journal of Power Sources, 2017, 342, 515-520.	4.0	15
4938	Kinetic characteristics up to 4.8 V of layered LiNi1/3Co1/3Mn1/3O2 cathode materials for high voltage lithium-ion batteries. Electrochimica Acta, 2017, 227, 152-161.	2.6	36
4939	Hierarchical three-dimensional FeCo2O4@MnO2 core-shell nanosheet arrays on nickel foam for high-performance supercapacitor. Electrochimica Acta, 2017, 228, 175-182.	2.6	81
4940	Unveiling the Nucleation and Coarsening Mechanisms of Solution-Derived Self-Assembled Epitaxial Ce_{0.9}Gd_{0.1}O_{2â€“y} Nanostructures. Crystal Growth and Design, 2017, 17, 504-516.	1.4	17
4941	Atomic layer deposition for nanomaterial synthesis and functionalization in energy technology. Materials Horizons, 2017, 4, 133-154.	6.4	141
4942	Fast charging self-powered electric double layer capacitor. Journal of Power Sources, 2017, 342, 70-78.	4.0	98
4943	Rational Design of Self-Supported Ni₃S₂ Nanosheets Array for Advanced Asymmetric Supercapacitor with a Superior Energy Density. ACS Applied Materials & Interfaces, 2017, 9, 496-504.	4.0	216
4944	Cost-effective approach for structural evolution of Si-based multicomponent for Li-ion battery anodes. Journal of Materials Chemistry A, 2017, 5, 2095-2101.	5.2	20
4945	Incorporating Pyrrolic and Pyridinic Nitrogen into a Porous Carbon made from C₆₀ Molecules to Obtain Superior Energy Storage. Advanced Materials, 2017, 29, 1603414.	11.1	175
4946	Recent Progress on Spray Pyrolysis for High Performance Electrode Materials in Lithium and Sodium Rechargeable Batteries. Advanced Energy Materials, 2017, 7, 1601578.	10.2	120

#	Article	IF	Citations
4947	Low Molecular Weight Spandex as a Promising Polymeric Binder for LiFePO₄ Electrodes. Advanced Energy Materials, 2017, 7, 1602147.	10.2	27
4948	Performance of Thixotropic Gel Electrolytes in the Rechargeable Aqueous Zn/LiMn₂O₄ Battery. ACS Sustainable Chemistry and Engineering, 2017, 5, 1804-1811.	3.2	41
4949	Spaced TiO₂ nanotube arrays allow for a high performance hierarchical supercapacitor structure. Journal of Materials Chemistry A, 2017, 5, 1895-1901.	5.2	62
4950	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. Nanoscale, 2017, 9, 1237-1243.	2.8	154
4951	Impact and oxidation of single silver nanoparticles at electrode surfaces: one shot versus multiple events. Chemical Science, 2017, 8, 1841-1853.	3.7	160
4952	Mixed-valence NaSb₃O₇ support toward improved electrocatalytic performance in the oxygen-reduction reaction. Journal of Materials Chemistry A, 2017, 5, 1667-1671.	5.2	24
4953	Self-assembled Co3O4hexagonal plates by solvent engineering and their dramatically enhanced electrochemical performance. Nanoscale, 2017, 9, 940-946.	2.8	13
4954	Preparation and characterization of LiNi 0.8 Co 0.15 Al 0.05 O 2 with high cycling stability by using AlO 2 - as Al source. Ceramics International, 2017, 43, 3885-3892.	2.3	19
4955	Amorphous ZnO Quantum Dot/Mesoporous Carbon Bubble Composites for a High-Performance Lithium-Ion Battery Anode. ACS Applied Materials & Interfaces, 2017, 9, 439-446.	4.0	77
4956	Enhanced performance of sulfonated poly (ether ether ketone) membranes by blending fully aromatic polyamide for practical application in direct methanol fuel cells (DMFCs). International Journal of Hydrogen Energy, 2017, 42, 28567-28577.	3.8	45
4957	Lithiation-assisted exfoliation and reduction of SnS₂to SnS decorated on lithium-integrated graphene for efficient energy storage. Nanoscale, 2017, 9, 17922-17932.	2.8	44
4958	Hierarchically Porous Carbon Derived from PolyHIPE for Supercapacitor and Deionization Applications. Langmuir, 2017, 33, 13364-13375.	1.6	61
4959	Flexible fabric-based wearable solid-state supercapacitor. , 2017, , .		4
4960	Recent Advancements in Li-Ion Conductors for All-Solid-State Li-Ion Batteries. ACS Energy Letters, 2017, 2, 2734-2751.	8.8	226
4961	Design Principles of Peptide Based Self-Assembled Nanomaterials. Advances in Experimental Medicine and Biology, 2017, 1030, 51-94.	0.8	7
4962	Multiphase Ge-based Ge/FeGe/FeGe2/C composite anode for high performance lithium ion batteries. Electrochimica Acta, 2017, 253, 522-529.	2.6	27
4963	3D nitrogen-doped graphene decorated CoNi2S4@polypyrrole electrode for pseudocapacitor with ultrahigh electrochemical performance. FlatChem, 2017, 6, 1-10.	2.8	9
4964	Creating coordinatively unsaturated metal sites in metal-organic-frameworks as efficient electrocatalysts for the oxygen evolution reaction: Insights into the active centers. Nano Energy, 2017, 41, 417-425.	8.2	386

#	Article	IF	Citations
4965	Compositional effect investigation by addition PEG, PEO plasticiser of LiBOB based solid polymer electrolyte for lithium ion batteries. AIP Conference Proceedings, 2017, , .	0.3	3
4967	Relevance of the Interaction between the M-Phthalocyanines and Carbon Nanotubes in the Electroactivity toward ORR. Langmuir, 2017, 33, 11945-11955.	1.6	27
4968	MOF derived ZnCo₂O₄ porous hollow spheres functionalized with Ag nanoparticles for a long-cycle and high-capacity lithium ion battery anode. Journal of Materials Chemistry A, 2017, 5, 22717-22725.	5.2	69
4969	Recovered spinel MnCo₂O₄from spent lithium-ion batteries for enhanced electrocatalytic oxygen evolution in alkaline medium. Dalton Transactions, 2017, 46, 14382-14392.	1.6	72
4970	Synthesis of MOFâ€525 Derived Nanoporous Carbons with Different Particle Sizes for Supercapacitor Application. Chemistry - an Asian Journal, 2017, 12, 2857-2862.	1.7	52
4971	High-Level Pyrrolic/Pyridinic N-Doped Carbon Nanoflakes from Ï€-Fused Polyimide for Anodic Lithium Storage. ChemistrySelect, 2017, 2, 9007-9013.	0.7	8
4972	Material and Structural Design of Novel Binder Systems for High-Energy, High-Power Lithium-Ion Batteries. Accounts of Chemical Research, 2017, 50, 2642-2652.	7.6	261
4973	High-performance supercapacitors of Cu-based porous coordination polymer nanowires and the derived porous CuO nanotubes. Dalton Transactions, 2017, 46, 16821-16827.	1.6	15
4974	Comprehensive Study of Oxygen Storage in YbFe₂O_{4+x} (x â‰ 0.5): Unprecedented Coexistence of FeO_n Polyhedra in One Single Phase. Journal of the American Chemical Society, 2017, 139, 17031-17043.	6.6	9
4975	Hierarchical self-entangled carbon nanotube tube networks. Nature Communications, 2017, 8, 1215.	5.8	120
4976	Dimensional characterization of gold nanorods by combining millisecond and microsecond temporal resolution single particle ICP-MS measurements. Journal of Analytical Atomic Spectrometry, 2017, 32, 2455-2462.	1.6	24
4977	A general synthesis of abundant metal nanoparticles functionalized mesoporous graphitized carbon. RSC Advances, 2017, 7, 50966-50972.	1.7	6
4978	Facile hydrothermal synthesis and characterization of cesium-doped PbI2 nanostructures for optoelectronic, radiation detection and photocatalytic applications. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	55
4979	High electrochemical performance of nanoporous Fe3O4/CuO/Cu composites synthesized by dealloying Al-Cu-Fe quasicrystal. Journal of Alloys and Compounds, 2017, 729, 360-369.	2.8	21
4980	Transformation of Metalâ€“Organic Frameworks/Coordination Polymers into Functional Nanostructured Materials: Experimental Approaches Based on Mechanistic Insights. Accounts of Chemical Research, 2017, 50, 2684-2692.	7.6	184
4981	Self-Templated Synthesis of Porous Ni(OH)₂ Nanocube and Its High Electrochemical Performance for Supercapacitor. Langmuir, 2017, 33, 12087-12094.	1.6	30
4982	Encapsulated MnO in N-doping carbon nanofibers as efficient ORR electrocatalysts. Science China Materials, 2017, 60, 937-946.	3.5	27
4983	Exceptionally High Electric Double Layer Capacitances of Oligomeric Ionic Liquids. Journal of the American Chemical Society, 2017, 139, 16072-16075.	6.6	42

#	Article	IF	Citations
4984	Ni nanoparticles@Niâ€“Mo nitride nanorod arrays: a novel 3D-network hierarchical structure for high areal capacitance hybrid supercapacitors. Nanoscale, 2017, 9, 18032-18041.	2.8	59
4985	Oxygen electrode reactions of doped BiFeO₃materials for low and elevated temperature fuel cell applications. RSC Advances, 2017, 7, 47643-47653.	1.7	17
4986	Inside outâ€”Visualizing dynamic chemical transformations in situ with nanometer-scale resolution. MRS Bulletin, 2017, 42, 743-751.	1.7	0
4987	Carbon-Based Nanomaterials Using Low-Temperature Plasmas for Energy Storage Application. , 2017, , 739-805.		1
4988	A highly elastic and flexible solid-state polymer electrolyte based on ionic liquid-decorated PMMA nanoparticles for lithium batteries. New Journal of Chemistry, 2017, 41, 13096-13103.	1.4	23
4989	Câ€“HÂ·Â·Â·O Hydrogen Bonding in Pentamers of Isatin. Journal of Physical Chemistry C, 2017, 121, 21520-21526.	1.5	15
4990	Spherical graphene and Si nanoparticle composite particles for high-performance lithium batteries. Korean Journal of Chemical Engineering, 2017, 34, 3195-3199.	1.2	22
4991	Understanding inks for porous-electrode formation. Journal of Materials Chemistry A, 2017, 5, 20527-20533.	5.2	68
4992	(101) Plane-Oriented SnS₂ Nanoplates with Carbon Coating: A High-Rate and Cycle-Stable Anode Material for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 35880-35887.	4.0	46
4993	Fabrication of an advanced asymmetric supercapacitor based on a microcubical PB@MnO₂hybrid and PANI/GNP composite with excellent electrochemical behaviour. Journal of Materials Chemistry A, 2017, 5, 22242-22254.	5.2	75
4994	Hierarchically porous-structured Zn_xCo_{1â^'x}S@Câ€“CNT nanocomposites with high-rate cycling performance for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 23221-23227.	5.2	63
4995	High Reversible Pseudocapacity in Mesoporous Yolkâ€“Shell Anatase TiO₂/TiO₂(B) Microspheres Used as Anodes for Liâ€Ion Batteries. Advanced Functional Materials, 2017, 27, 1703270.	7.8	99
4996	Atomicâ€Scale Monitoring of Electrode Materials in Lithiumâ€Ion Batteries using In Situ Transmission Electron Microscopy. Advanced Energy Materials, 2017, 7, 1700709.	10.2	53
4997	Nitrogenâ€Doped Graphene Nanosheets/S Composites as Cathode in Roomâ€Temperature Sodiumâ€Sulfur Batteries. ChemistrySelect, 2017, 2, 9425-9432.	0.7	30
4998	From capacitance-controlled to diffusion-controlled electrochromism in one-dimensional shape-tailored tungsten oxide nanocrystals. Nano Energy, 2017, 41, 634-645.	8.2	63
4999	Metal-Organic Frameworks Derived Nanocomposites of Mixed-Valent MnO Nanoparticles In-Situ Grown on Ultrathin Carbon Sheets for High-Performance Supercapacitors and Lithium-Ion Batteries. Electrochimica Acta, 2017, 256, 63-72.	2.6	31
5000	Boron-Doped Graphene as a Promising Anode Material for Potassium-Ion Batteries with a Large Capacity, High Rate Performance, and Good Cycling Stability. Journal of Physical Chemistry C, 2017, 121, 24418-24424.	1.5	118
5001	Electrochemical Magnetization Switching and Energy Storage in Manganese Oxide filled Carbon Nanotubes. Scientific Reports, 2017, 7, 13625.	1.6	16

#	Article	IF	Citations
5002	Laser pyrolysis synthesis of Snâ€“Feâ€“N@polycarbosilazane nanocomposites, characterization and evaluation as energy storage materials. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	1
5003	Stochastic and cooperative processes in far from equilibrium mesoscopic electrochemical systems. Current Opinion in Electrochemistry, 2017, 4, 145-151.	2.5	6
5004	Scalable fabrication of core-shell structured Li 4 Ti 5 O 12 /PPy particles embedded in N-doped graphene networks as advanced anode for lithium-ion batteries. Journal of Power Sources, 2017, 369, 42-49.	4.0	34
5005	Tunable Low Density Palladium Nanowire Foams. Chemistry of Materials, 2017, 29, 9814-9818.	3.2	32
5006	Synthesis of Co3O4 nanocubes/CNTs composite with enhanced sodium storage performance. Solid State Ionics, 2017, 312, 32-37.	1.3	23
5007	Unexpected self-assembly, photoluminescence behavior, and film-forming properties of polysiloxane-based imidazolium ionic liquids prepared by one-pot thiolâ€“ene reaction. New Journal of Chemistry, 2017, 41, 14545-14550.	1.4	7
5008	Pyridinium functionalized coordination containers as highly efficient electrocatalysts for sustainable oxygen evolution. Journal of Materials Chemistry A, 2017, 5, 23559-23565.	5.2	16
5009	Nanostructured Electrode Materials for High-Energy Rechargeable Li, Na and Zn Batteries. Chemistry of Materials, 2017, 29, 9589-9604.	3.2	80
5010	Rock-Salt Growth-Induced (003) Cracking in a Layered Positive Electrode for Li-Ion Batteries. ACS Energy Letters, 2017, 2, 2607-2615.	8.8	116
5011	Spheroidal Microparticle Monolayers Characterized by Streaming Potential Measurements. Langmuir, 2017, 33, 9916-9925.	1.6	10
5012	Growth of single-crystalline cubic structured tin(<scp>ii</scp>) sulfide (SnS) nanowires by chemical vapor deposition. RSC Advances, 2017, 7, 41452-41459.	1.7	21
5013	Recent Advances in Nanostructured Vanadium Oxides and Composites for Energy Conversion. Advanced Energy Materials, 2017, 7, 1700885.	10.2	196
5014	Macroscopicâ€Scale Threeâ€Dimensional Carbon Nanofiber Architectures for Electrochemical Energy Storage Devices. Advanced Energy Materials, 2017, 7, 1700826.	10.2	152
5015	Current Progress on Rechargeable Magnesiumâ€“Air Battery. Advanced Energy Materials, 2017, 7, 1700869.	10.2	144
5016	Porous silicon in carbon cages as high-performance lithium-ion battery anode Materials. Electrochimica Acta, 2017, 252, 438-445.	2.6	31
5017	Key role of surface oxidation and reduction processes in the coarsening of Pt nanoparticles. Nanoscale, 2017, 9, 13159-13170.	2.8	25
5018	Performance of MOFâ€Derived Spinel Type Ni_xCo_{3â€x}O_{4â€y} Nanocages in Efficient Methanol Electroâ€Oxidation. ChemElectroChem, 2017, 4, 2989-2996.	1.7	28
5019	Thermal sensitive flexible phase change materials with high thermal conductivity for thermal energy storage. Energy Conversion and Management, 2017, 149, 1-12.	4.4	95

#	Article	IF	Citations
5020	In situ transmission electron microscopy study of individual nanostructures during lithiation and delithiation processes. Journal of Materials Chemistry A, 2017, 5, 20072-20094.	5.2	27
5021	Self-Rearrangement of Silicon Nanoparticles Embedded in Micro-Carbon Sphere Framework for High-Energy and Long-Life Lithium-Ion Batteries. Nano Letters, 2017, 17, 5600-5606.	4.5	142
5022	Printable Heterostructured Bioelectronic Interfaces with Enhanced Electrode Reaction Kinetics by Intermicroparticle Network. ACS Applied Materials & Interfaces, 2017, 9, 33368-33376.	4.0	7
5023	Robust Fe₃Mo₃C Supported IrMn Clusters as Highly Efficient Bifunctional Air Electrode for Metalâ€“Air Battery. Advanced Materials, 2017, 29, 1702385.	11.1	90
5024	Leaf-inspired interwoven carbon nanosheet/nanotube homostructures for supercapacitors with high energy and power densities. Journal of Materials Chemistry A, 2017, 5, 19997-20004.	5.2	49
5025	Sodiumâ€Saltâ€Promoted Growth of Selfâ€Supported Copper Oxides with Comparative Supercapacitive Properties. ChemElectroChem, 2017, 4, 3188-3195.	1.7	14
5026	MnCo₂O₄ decorated MagnÃ©li phase titanium oxide as a carbon-free cathode for Liâ€“O₂ batteries. Journal of Materials Chemistry A, 2017, 5, 19991-19996.	5.2	27
5027	Selfâ€Healing Materials for Nextâ€Generation Energy Harvesting and Storage Devices. Advanced Energy Materials, 2017, 7, 1700890.	10.2	206
5028	Fast nanostructured carbon microparticle synthesis by one-step high-flux plasma processing. Carbon, 2017, 124, 403-414.	5.4	5
5029	Asymmetric capacitors based on TiO2 and mesoporous MnO2 electrodes using neutral aqueous electrolyte. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	9
5030	LiMn₂O₄ Surface Chemistry Evolution during Cycling Revealed by in Situ Auger Electron Spectroscopy and X-ray Photoelectron Spectroscopy. ACS Applied Materials & Interfaces, 2017, 9, 33968-33978.	4.0	37
5031	Substrate-integrated coreâ€“shell Co₃O₄@Au@CuO hybrid nanowires as efficient cathode materials for high-performance asymmetric supercapacitors with excellent cycle life. Journal of Materials Chemistry A, 2017, 5, 21715-21725.	5.2	62
5032	Twoâ€Step Synthesis of Hierarchical Dual Fewâ€Layered Fe₃O₄/MoS₂ Nanosheets and Their Synergistic Effects on Lithiumâ€Storage Performance. Advanced Materials Interfaces, 2017, 4, 1700639.	1.9	20
5033	LiCrTiO₄ Nanowires with the (111) Peak Evolution during Cycling for High-Performance Lithium Ion Battery Anodes. ACS Sustainable Chemistry and Engineering, 2017, 5, 10580-10587.	3.2	18
5034	A review for the synthesis methods of lithium vanadium phosphate cathode materials. Journal of Materials Science: Materials in Electronics, 2017, 28, 18269-18295.	1.1	10
5035	Capillarity Composited Recycled Paper/Graphene Scaffold for Lithiumâ€“Sulfur Batteries with Enhanced Capacity and Extended Lifespan. Small, 2017, 13, 1701927.	5.2	78
5036	Achieving High-Performance Silicon Anodes of Lithium-Ion Batteries via Atomic and Molecular Layer Deposited Surface Coatings: an Overview. Electrochimica Acta, 2017, 251, 710-728.	2.6	58
5037	Channelized carbon nanofiber with uniform-dispersed GeO2 as anode for long-lifespan lithium-ion batteries. Journal of Alloys and Compounds, 2017, 729, 313-322.	2.8	16

#	Article	IF	Citations
5038	Porous asphalt/graphene composite for supercapacitors with high energy density at superior power density without added conducting materials. Journal of Materials Chemistry A, 2017, 5, 21757-21764.	5.2	24
5039	Atomicâ€Level Coupled Interfaces and Lattice Distortion on CuS/NiS₂ Nanocrystals Boost Oxygen Catalysis for Flexible Znâ€Air Batteries. Advanced Functional Materials, 2017, 27, 1703779.	7.8	200
5040	Fast charging self-powered wearable and flexible asymmetric supercapacitor power cell with fish swim bladder as an efficient natural bio-piezoelectric separator. Nano Energy, 2017, 40, 633-645.	8.2	89
5041	Nanostructured anode materials for lithium-ion batteries: principle, recent progress and future perspectives. Journal of Materials Chemistry A, 2017, 5, 19521-19540.	5.2	323
5042	A review of recent progress in molybdenum disulfide-based supercapacitors and batteries. Inorganic Chemistry Frontiers, 2017, 4, 1602-1620.	3.0	164
5043	A Database for Comparative Electrochemical Performance of Commercial 18650-Format Lithium-Ion Cells. Journal of the Electrochemical Society, 2017, 164, A2697-A2706.	1.3	35
5044	High-Capacitance Hybrid Supercapacitor Based on Multi-Colored Fluorescent Carbon-Dots. Scientific Reports, 2017, 7, 11222.	1.6	224
5045	Nanostructured binary and ternary metal sulfides: synthesis methods and their application in energy conversion and storage devices. Journal of Materials Chemistry A, 2017, 5, 22040-22094.	5.2	341
5046	Advanced sodium storage property in an exfoliated MoO3 anode: the stability and performance improvement by in situ impedance mapping. Journal of Materials Chemistry A, 2017, 5, 20491-20496.	5.2	14
5047	Direct Synthesis of Alloyed Si_{1â€“x}Ge_x Nanowires for Performance-Tunable Lithium Ion Battery Anodes. ACS Nano, 2017, 11, 10088-10096.	7.3	64
5048	Deformable and Transparent Ionic and Electronic Conductors for Soft Energy Devices. Advanced Energy Materials, 2017, 7, 1701369.	10.2	63
5049	Mesoporous Fe2O3 nanomaterials from natural rust for lithium storage. Journal of Materials Science: Materials in Electronics, 2017, 28, 19098-19104.	1.1	7
5050	Enhancement of band gap and evolution of in-gap states in hydrogen-adsorbed monolayer graphene on SiC(0001). Carbon, 2017, 124, 584-587.	5.4	9
5051	One-pot construction of 3-D graphene nanosheets/Ni3S2 nanoparticles composite for high-performance supercapacitors. Electrochimica Acta, 2017, 253, 344-356.	2.6	43
5052	Binder-free TiO2 nanowires-C/Si/C 3D network composite as high performance anode for lithium ion battery. Materials Letters, 2017, 209, 547-550.	1.3	9
5053	Magnetic epoxy nanocomposites reinforced with hierarchicalÎ±-Fe₂O₃nanoflowers: a study of mechanical properties. Materials Research Express, 2017, 4, 095028.	0.8	11
5054	Challenges and Recent Progress in the Development of Si Anodes for Lithiumâ€Ion Battery. Advanced Energy Materials, 2017, 7, 1700715.	10.2	709
5055	Systematic Optimization of Battery Materials: Key Parameter Optimization for the Scalable Synthesis of Uniform, High-Energy, and High Stability LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂ Cathode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 35811-35819.	4.0	73

#	Article	IF	Citations
5056	Bragg Coherent Diffractive Imaging of Zinc Oxide Acoustic Phonons at Picosecond Timescales. Scientific Reports, 2017, 7, 9823.	1.6	12
5057	Self-assembly synthesis of 3D graphene-encapsulated hierarchical Fe 3 O 4 nano-flower architecture with high lithium storage capacity and excellent rate capability. Journal of Power Sources, 2017, 365, 98-108.	4.0	61
5058	Hydrothermal Synthesis of CoMoO4/Co9S8 Nanorod Arrays on Nickel Foam for High-Performance Asymmetric Supercapacitors with High Energy Density. Electrochimica Acta, 2017, 252, 470-481.	2.6	25
5059	Electrochemically anodized porous silicon: Towards simple and affordable anode material for Li-ion batteries. Scientific Reports, 2017, 7, 7880.	1.6	48
5060	Phosphorene for energy and catalytic applicationâ€"filling the gap between graphene and 2D metal chalcogenides. 2D Materials, 2017, 4, 042006.	2.0	46
5061	Semimetallic core-shell TiO 2 nanotubes as a high conductivity scaffold and use in efficient 3D-RuO 2 supercapacitors. Materials Today Energy, 2017, 6, 46-52.	2.5	39
5062	Engineering graphene with red phosphorus quantum dots for superior hybrid anodes of sodium-ion batteries. Nanoscale, 2017, 9, 14722-14729.	2.8	38
5063	Synthesis of a hierarchical cobalt sulfide/cobalt basic salt nanocomposite via a vapor-phase hydrothermal method as an electrode material for supercapacitor. New Journal of Chemistry, 2017, 41, 12147-12152.	1.4	11
5064	The Synergistic Effects of the Micro and Nano Particles in Micro-nano Composites on Enhancing the Resistance to Electrical Tree Degradation. Scientific Reports, 2017, 7, 8672.	1.6	12
5065	Pd-P nanoparticles supported on P_xO_y-incorporated carbon nanotubes for enhanced methanol oxidation in an alkaline medium. Physical Chemistry Chemical Physics, 2017, 19, 25214-25219.	1.3	15
5066	New insights into the stability of a high performance nanostructured catalyst for sustainable water electrolysis. Nano Energy, 2017, 40, 618-632.	8.2	112
5067	Novel synthesis of dual-suspended architectures between Si-pillars for enhanced photocatalytic performance. RSC Advances, 2017, 7, 2880-2883.	1.7	4
5068	Superior sodium storage performance of additive-free V₂O₅ thin film electrodes. Journal of Materials Chemistry A, 2017, 5, 16590-16594.	5.2	56
5069	Insights into the Li Intercalation and SEI Formation on LiSi Nanoclusters. Journal of the Electrochemical Society, 2017, 164, E3457-E3464.	1.3	10
5070	A laser irradiation synthesis of strongly-coupled VOx-reduced graphene oxide composites as enhanced performance supercapacitor electrodes. Materials Today Energy, 2017, 5, 222-229.	2.5	13
5071	Hybrid Organic Electrodes: The Rational Design and Synthesis of High-Energy Redox-Active Pendant Functionalized Polypyrroles for Electrochemical Energy Storage. Journal of the Electrochemical Society, 2017, 164, A1946-A1951.	1.3	6
5072	Synthesis of embossing Si nanomesh and its application as an anode for lithium ion batteries. Journal of Power Sources, 2017, 362, 270-277.	4.0	25
5073	Porous-Nickel-Scaffolded Tinâ€"Antimony Anodes with Enhanced Electrochemical Properties for Li/Na-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 25250-25256.	4.0	34

#	Article	IF	Citations
5074	Doping Ba into strontium titanate for enhanced photocatalytic oxygen evolution over its supported Au-based catalysts. Catalysis Communications, 2017, 99, 127-130.	1.6	7
5075	Confined growth of uniformly dispersed NiCo2S4 nanoparticles on nitrogen-doped carbon nanofibers for high-performance asymmetric supercapacitors. Chemical Engineering Journal, 2017, 328, 599-608.	6.6	57
5076	Nanosilicon anodes for high performance rechargeable batteries. Progress in Materials Science, 2017, 90, 1-44.	16.0	172
5077	Highly dispersed copper (oxide) nanoparticles prepared on SBA-15 partially occluded with the P123 surfactant: toward the design of active hydrogenation catalysts. Catalysis Science and Technology, 2017, 7, 5376-5385.	2.1	30
5078	Enhanced electrochemical performance of LiMn 2 O 4 by constructing a stable Mn 2+ -rich interface. Applied Surface Science, 2017, 426, 19-28.	3.1	25
5079	Lithiation-Assisted Strengthening Effect and Reactive Flow in Bulk and Nanoconfined Sulfur Cathodes of Lithiumâ€“Sulfur Batteries. Journal of Physical Chemistry C, 2017, 121, 17029-17037.	1.5	11
5080	High performance Fe2O3 based supercapcitor using an electrolyte containing redox mediator. AIP Conference Proceedings, 2017, , .	0.3	0
5081	A.C. impedance, XRD, DSC, SEM and charge/discharge studies on Al2O3, TiO2, SiO2 dispersoid LiPF6/PVC/PVdF-co-HFP composite polymer electrolytes by phase inversion. AIP Conference Proceedings, 2017, , .	0.3	0
5082	Development and application of novel NMR methodologies for the in situ characterization of crystallization processes of metastable crystalline materials. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 141-159.	0.4	4
5083	Large-size graphene-like porous carbon nanosheets with controllable N-doped surface derived from sugarcane bagasse pith/chitosan for high performance supercapacitors. Carbon, 2017, 123, 290-298.	5.4	157
5084	Germanium on seamless graphene carbon nanotube hybrids for lithium ion anodes. Carbon, 2017, 123, 433-439.	5.4	35
5085	Hierarchical VS₂ Nanosheet Assemblies: A Universal Host Material for the Reversible Storage of Alkali Metal Ions. Advanced Materials, 2017, 29, 1702061.	11.1	320
5086	Highly Nanoporous Nickel Cobaltite Hexagonal Nanostructureâ€Graphene Composites for the Next Generation Energy Storage/Conversion Devices. Advanced Materials Interfaces, 2017, 4, 1700219.	1.9	10
5087	Lowâ€Temperature Atmospheric Pressure Plasmaâ€Enhanced CVD of Nanocomposite Coatings â€œMolybdenum Disulfide (Filler)â€“Silicon Oxide (Matrix)â€• Advanced Materials Interfaces, 2017, 4, 1700241.	1.9	14
5088	Recent Advances in Designing and Fabricating Selfâ€Supported Nanoelectrodes for Supercapacitors. Advanced Science, 2017, 4, 1700188.	5.6	168
5089	Application of Synchrotron Radiation Technologies to Electrode Materials for Liâ€and Naâ€ion Batteries. Advanced Energy Materials, 2017, 7, 1700460.	10.2	39
5090	Three-dimensional graphene-based macrostructures for sustainable energy applications and climate change mitigation. Progress in Materials Science, 2017, 90, 224-275.	16.0	60
5091	Anchovy-derived nitrogen and sulfur co-doped porous carbon materials for high-performance supercapacitors and dye-sensitized solar cells. RSC Advances, 2017, 7, 35565-35574.	1.7	31

#	Article	IF	Citations
5092	Carbon nanospheres hanging on carbon nanotubes: a hierarchical three-dimensional carbon nanostructure for high-performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 16595-16599.	5.2	22
5093	Silver copper fluoride: A novel perovskite cathode for lithium batteries. Journal of Power Sources, 2017, 362, 86-91.	4.0	15
5094	Combustion synthesis of zero-, one-, two- and three-dimensional nanostructures: Current trends and future perspectives. Progress in Energy and Combustion Science, 2017, 63, 79-118.	15.8	157
5095	A first-principle study on adsorption of atomic hydrogen on the two-dimensional hexagonal boron nitride monolayer. Superlattices and Microstructures, 2017, 111, 696-703.	1.4	7
5096	Ni₃FeNâ€Supported Fe₃Pt Intermetallic Nanoalloy as a Highâ€Performance Bifunctional Catalyst for Metalâ€“Air Batteries. Angewandte Chemie, 2017, 129, 10033-10037.	1.6	25
5097	Novel Co₂VO₄ Anodes Using Ultralight 3D Metallic Current Collector and Carbon Sandwiched Structures for Highâ€Performance Liâ€Ion Batteries. Small, 2017, 13, 1701260.	5.2	49
5098	In-situ synthesized ZnFe 2 O 4 firmly anchored to the surface of MWCNTs as a long-life anode material with high lithium storage performance. Applied Surface Science, 2017, 425, 978-987.	3.1	32
5099	Enhancement of the dielectric response in polymer nanocomposites with low dielectric constant fillers. Nanoscale, 2017, 9, 10992-10997.	2.8	216
5100	Correlating charge fluence with nanoparticle formation during in situ plasma synthesis of nanocomposite films. Plasma Processes and Polymers, 2017, 14, 1700079.	1.6	2
5101	Microstructure evolution, thermal stability and fractal behavior of water vapor flow assisted in situ growth poly(vinylcarbazole)-titania quantum dots nanocomposites. Journal of Physics and Chemistry of Solids, 2017, 111, 199-206.	1.9	10
5102	SnO2/TiO2 nanocomposites embedded in porous carbon as a superior anode material for lithium-ion batteries. Chemical Engineering Journal, 2017, 330, 453-461.	6.6	45
5103	Heterogeneous TiO2@Nb2O5 composite as a high-performance anode for lithium-ion batteries. Scientific Reports, 2017, 7, 7204.	1.6	10
5104	Electrochemical properties of a silicon nanoparticle/hollow graphite fiber/carbon coating composite as an anode for lithium-ion batteries. RSC Advances, 2017, 7, 36735-36743.	1.7	10
5105	Two-step ball-milling synthesis of a Si/SiO_x/C composite electrode for lithium ion batteries with excellent long-term cycling stability. RSC Advances, 2017, 7, 36697-36704.	1.7	43
5106	Few-layer MoS₂anchored at nitrogen-doped carbon ribbons for sodium-ion battery anodes with high rate performance. Journal of Materials Chemistry A, 2017, 5, 17963-17972.	5.2	93
5107	A room-temperature liquid metal-based self-healing anode for lithium-ion batteries with an ultra-long cycle life. Energy and Environmental Science, 2017, 10, 1854-1861.	15.6	219
5108	Overview on conducting polymer in energy storage and energy conversion system. Journal of Macromolecular Science - Pure and Applied Chemistry, 2017, 54, 640-653.	1.2	64
5109	Entropy production and energy dissipation in symmetric redox supercapacitors. Physical Review E, 2017, 96, 022103.	0.8	4

#	Article	IF	Citations
5110	Sub-10-nm Graphene Nanoribbons with Tunable Surface Functionalities for Lithium-ion Batteries. Electrochimica Acta, 2017, 249, 404-412.	2.6	9
5111	N- and O-doped hollow carbonaceous spheres with hierarchical porous structure for potential application in high-performance capacitance. Journal of Power Sources, 2017, 363, 356-364.	4.0	45
5112	Graphene-Oxide-Assisted Synthesis of GaN Nanosheets as a New Anode Material for Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2017, 9, 26631-26636.	4.0	81
5113	Amorphous Transition Metal Sulfides Anchored on Amorphous Carbonâ€Coated Multiwalled Carbon Nanotubes for Enhanced Lithiumâ€Ion Storage. Chemistry - A European Journal, 2017, 23, 14056-14063.	1.7	27
5114	Synthesis and Characterization of Aramid Fiberâ€Reinforced Polyimide/Carbon Black Composites and Their Use in a Supercapacitor. Chinese Journal of Chemistry, 2017, 35, 1586-1594.	2.6	14
5115	High Capacity, Superior Cyclic Performances in All-Solid-State Lithium-Ion Batteries Based on 78Li₂S-22P₂S₅ Glass-Ceramic Electrolytes Prepared via Simple Heat Treatment. ACS Applied Materials & Interfaces, 2017, 9, 28542-28548.	4.0	49
5116	Emerging Opportunities for Two-Dimensional Materials in Lithium-Ion Batteries. ACS Energy Letters, 2017, 2, 2026-2034.	8.8	131
5117	Silicon enclosed in rGO/CNT shell-like scaffold as a micro lithium-ion battery anode. , 2017, , .		1
5118	Use of 3D printing for biofuel production: efficient catalyst for sustainable biodiesel production from wastes. Clean Technologies and Environmental Policy, 2017, 19, 2113-2127.	2.1	14
5119	Triboelectrificationâ€Enabled Selfâ€Charging Lithiumâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1700103.	10.2	89
5120	The Functionalization of Miniature Energyâ€Storage Devices. Small Methods, 2017, 1, 1700211.	4.6	23
5121	Laser-induced nanoparticle fabrication on paper. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	5
5122	Flower-like WO3/CoWO4/Co nanostructures as high performance anode for lithium ion batteries. Journal of Alloys and Compounds, 2017, 727, 107-113.	2.8	28
5123	Spinels: Controlled Preparation, Oxygen Reduction/Evolution Reaction Application, and Beyond. Chemical Reviews, 2017, 117, 10121-10211.	23.0	1,157
5124	Structural and Morphological Description of Sn/SnO_x Coreâ€“Shell Nanoparticles Synthesized and Isolated from Ionic Liquid. Inorganic Chemistry, 2017, 56, 10099-10106.	1.9	8
5125	Enhanced Pseudocapacitance of MoO₃-Reduced Graphene Oxide Hybrids with Insight from Density Functional Theory Investigations. Journal of Physical Chemistry C, 2017, 121, 18992-19001.	1.5	51
5126	Enhanced tortuosity for electrolytes in microwave irradiated self-organized carbon-doped Ni/Co hydroxide nanocomposite electrodes with higher Ni/Co atomic ratio and rate capability for an asymmetric supercapacitor. Nanotechnology, 2017, 28, 445405.	1.3	6
5127	Cold sintering of a Li-ion cathode: LiFePO4-composite with high volumetric capacity. Ceramics International, 2017, 43, 15370-15374.	2.3	69

#	Article	IF	Citations
5128	Practical Li-Ion Battery Assembly with One-Dimensional Active Materials. Journal of Physical Chemistry Letters, 2017, 8, 4031-4037.	2.1	16
5129	Porous silicon filled with Pd/WO₃â€“ZnO composite thin film for enhanced H₂ gas-sensing performance. RSC Advances, 2017, 7, 39666-39675.	1.7	40
5130	Facile fabrication of CNTs@C@MoSe2@Se hybrids with amorphous structure for high performance anode in lithium-ion batteries. Journal of Colloid and Interface Science, 2017, 508, 435-442.	5.0	27
5131	Monolayer BC₂: an ultrahigh capacity anode material for Li ion batteries. Physical Chemistry Chemical Physics, 2017, 19, 24230-24239.	1.3	29
5132	Graphene-based carbon coated tin oxide as a lithium ion battery anode material with high performance. Journal of Materials Chemistry A, 2017, 5, 19136-19142.	5.2	35
5133	A novel iron phosphate/oxygen hybrid cathode with high power output for the aprotic lithium-oxygen battery. Materials Research Bulletin, 2017, 95, 431-435.	2.7	3
5134	Direct growth of FeCo2O4 nanowire arrays on flexible stainless steel mesh for high-performance asymmetric supercapacitor. NPG Asia Materials, 2017, 9, e419-e419.	3.8	108
5135	Controlled synthesis of hierarchically-structured MnCo2O4 and its potential as a high performance anode material. Science China Chemistry, 2017, 60, 1180-1186.	4.2	9
5136	Self-supported mesoporous FeCo2O4 nanosheets as high capacity anode material for sodium-ion battery. Chemical Engineering Journal, 2017, 330, 764-773.	6.6	50
5137	Layered SnS sodium ion battery anodes synthesized near room temperature. Nano Research, 2017, 10, 4368-4377.	5.8	58
5138	Structurally Stable Mesoporous Hierarchical NiMoO₄ Hollow Nanofibers for Asymmetric Supercapacitors with Enhanced Capacity and Improved Cycling Stability. ChemElectroChem, 2017, 4, 3331-3339.	1.7	29
5139	Atomic layer deposition of TiN layer on TiO<inf>2</inf> nanotubes for enhanced supercapacitor performance. , 2017, , .		3
5140	Feasibility of Atmospheric-Pressure CO Cold Plasma for Reduction of Supported Metal Ions. Plasma Chemistry and Plasma Processing, 2017, 37, 1535-1549.	1.1	13
5141	3D Hierarchical Carbon Microflowers decorated with MoO2 Nanoparticles for lithium ion batteries. Electrochimica Acta, 2017, 250, 219-227.	2.6	36
5142	Construction of MoO₂ Quantum Dotâ€“Graphene and MoS₂ Nanoparticleâ€“Graphene Nanoarchitectures toward Ultrahigh Lithium Storage Capability. ACS Applied Materials & Interfaces, 2017, 9, 28441-28450.	4.0	38
5143	Reviewâ€”Promises and Challenges of In Situ Transmission Electron Microscopy Electrochemical Techniques in the Studies of Lithium Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A2110-A2123.	1.3	34
5144	Nanoscale Heterogeneity of Multilayered Si Anodes with Embedded Nanoparticle Scaffolds for Liâ€Ion Batteries. Advanced Science, 2017, 4, 1700180.	5.6	32
5145	Co₃O₄ Nanosheets with In-Plane Pores and Highly Active {112} Exposed Facets for High Performance Lithium Storage. Journal of Physical Chemistry C, 2017, 121, 19002-19009.	1.5	30

#	Article	IF	Citations
5146	Highly porous carbon with large electrochemical ion absorption capability for high-performance supercapacitors and ion capacitors. Nanotechnology, 2017, 28, 445406.	1.3	13
5147	Ternary lithium molybdenum oxide, Li2Mo4O13: A new potential anode material for high-performance rechargeable lithium-ion batteries. Electrochimica Acta, 2017, 258, 1445-1452.	2.6	16
5148	Imaging Electrode Heterogeneity Using Chemically Confined Fluorescence Electrochemical Microscopy. Journal of Physical Chemistry Letters, 2017, 8, 6124-6127.	2.1	16
5149	Facile Synthesis of Flowerlike LiFe₅O₈ Microspheres for Electrochemical Supercapacitors. Inorganic Chemistry, 2017, 56, 14960-14967.	1.9	26
5150	Distinct Viscoelasticity of Nanoparticle-Tethering Polymers Revealed by Nonequilibrium Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2017, 121, 28194-28203.	1.5	22
5151	Template-free synthesis of nitrogen doped carbon materials from an organic ionic dye (murexide) for supercapacitor application. RSC Advances, 2017, 7, 54626-54637.	1.7	16
5152	Design of Complex Nanomaterials for Energy Storage: Past Success and Future Opportunity. Accounts of Chemical Research, 2017, 50, 2895-2905.	7.6	258
5153	Bidirectional Correlation between Mechanics and Electrochemistry of Poly(vinyl alcohol)-Based Gel Polymer Electrolytes. Journal of Physical Chemistry Letters, 2017, 8, 6106-6112.	2.1	7
5154	Tailoring the structural, morphological, optical and dielectric properties of lead iodide through Nd3+ doping. Scientific Reports, 2017, 7, 16091.	1.6	194
5155	Proton-Driven Intercalation and Ion Substitution Utilizing Solid-State Electrochemical Reaction. Journal of the American Chemical Society, 2017, 139, 17987-17993.	6.6	13
5156	Recent Progress in Oxygen Electrocatalysts for Zincâ€“Air Batteries. Small Methods, 2017, 1, 1700209.	4.6	183
5157	Synthesis and anode properties of corundum-type structured (Fe 2 O 3) 1-x (Al 2 O 3) x solid solutions in the whole compositional range. Solid State Ionics, 2017, 313, 1-6.	1.3	4
5158	Encapsulating porous SnO₂into a hybrid nanocarbon matrix for long lifetime Li storage. Journal of Materials Chemistry A, 2017, 5, 25609-25617.	5.2	57
5159	Interface and Morphology Control of the Thermal Conductivity in Coreâ€“Shell Particle Colloidal Crystals. Advanced Materials Interfaces, 2017, 4, 1700963.	1.9	10
5160	Tunable Synthesis of Yolkâ€“Shell Porous Silicon@Carbon for Optimizing Si/C-Based Anode of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 42084-42092.	4.0	173
5161	Hierarchical porous carbon with network morphology derived from natural leaf for superior aqueous symmetrical supercapacitors. Electrochimica Acta, 2017, 258, 504-511.	2.6	60
5162	Electronic Structure Reconfiguration toward Pyrite NiS₂ via Engineered Heteroatom Defect Boosting Overall Water Splitting. ACS Nano, 2017, 11, 11574-11583.	7.3	310
5163	Achieving high specific capacity of lithium-ion battery cathodes by modification with â€œNâ€“OË™â€•radicals and oxygen-containing functional groups. Journal of Materials Chemistry A, 2017, 5, 24636-24644.	5.2	17

#	Article	IF	Citations
5164	High rate capability performance of ordered mesoporous TiNb6O17 microsphere anodes for lithium ion batteries. Dalton Transactions, 2017, 46, 17061-17066.	1.6	22
5165	Sustainable polysaccharide-derived mesoporous carbons (StarbonÂ®) as additives in lithium-ion batteries negative electrodes. Journal of Materials Chemistry A, 2017, 5, 24380-24387.	5.2	17
5166	An experimental study of ultra-low power wireless sensor-based autonomous energy harvesting system. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	46
5167	Finite size effects: deuterium diffusion in nm thick vanadium layers. New Journal of Physics, 2017, 19, 123004.	1.2	6
5168	Scanning Thermo-Ionic Microscopy: Probing Nanoscale Electrochemistry via Thermal Stress-Induced Oscillation. Microscopy Today, 2017, 25, 12-19.	0.2	11
5169	A three-dimensional hierarchical structure of cyclized-PAN/Si/Ni for mechanically stable silicon anodes. Journal of Materials Chemistry A, 2017, 5, 24667-24676.	5.2	29
5170	Nanostructured materials: A progressive assessment and future direction for energy device applications. Coordination Chemistry Reviews, 2017, 353, 113-141.	9.5	37
5171	A nanocrystalline structured NiO/MnO₂@nitrogen-doped graphene oxide hybrid nanocomposite for high performance supercapacitors. New Journal of Chemistry, 2017, 41, 15517-15527.	1.4	47
5172	Role of a Topotactic Electrochemical Reaction in a Perovskiteâ€Type Anode for Lithiumâ€Ion Batteries. ChemElectroChem, 2017, 4, 2474-2479.	1.7	7
5173	Microstructure-modified proton exchange membranes for high-performance direct methanol fuel cells. Energy Conversion and Management, 2017, 148, 753-758.	4.4	31
5174	GeO ultra-dispersed in microporous carbon nanofibers: a binder-free anode for high performance lithium-ion battery. Electrochimica Acta, 2017, 246, 981-989.	2.6	14
5175	Electrospun nanoporous TiO 2 nanofibers wrapped with reduced graphene oxide for enhanced and rapid lithium-ion storage. Materials Characterization, 2017, 131, 64-71.	1.9	24
5176	Highly stable 3D porous heterostructures with hierarchically-coordinated octahedral transition metals for enhanced performance supercapacitors. Nano Energy, 2017, 39, 337-345.	8.2	72
5177	Effect of Nitrogen Doping on Glass Transition and Electrical Conductivity of [EMIM][PF₆] Ionic Liquid Encapsulated in a Zigzag Carbon Nanotube. Journal of Physical Chemistry C, 2017, 121, 15493-15508.	1.5	18
5178	Biomorphic template-engaged strategy towards porous zinc manganate micro-belts as a competitive anode for rechargeable lithium-ion batteries. International Journal of Hydrogen Energy, 2017, 42, 14154-14165.	3.8	15
5179	Surface Treatments for Controlling Solid Electrolyte Interphase Formation on Sn/Graphene Composite Anodes for High-Performance Li-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 16682-16692.	1.5	4
5180	Prawn Shell Derived Chitin Nanofiber Membranes as Advanced Sustainable Separators for Li/Na-Ion Batteries. Nano Letters, 2017, 17, 4894-4901.	4.5	96
5181	Silicene Flowers: A Dual Stabilized Silicon Building Block for High-Performance Lithium Battery Anodes. ACS Nano, 2017, 11, 7476-7484.	7.3	132

#	Article	IF	Citations
5182	Synergetic nanoporous Mnâ€“Ru oxides as efficient electrocatalysts for the oxygen reduction reaction. New Journal of Chemistry, 2017, 41, 8196-8202.	1.4	3
5183	Perspective: Outstanding theoretical questions in polymer-nanoparticle hybrids. Journal of Chemical Physics, 2017, 147, 020901.	1.2	154
5184	Construction of well aligned highly dense Cobalt nanoneedles for efficient device application. Advances in Materials and Processing Technologies, 2017, 3, 627-631.	0.8	2
5185	Roles of carbon nanotubes in novel energy storage devices. Carbon, 2017, 122, 462-474.	5.4	157
5186	Enhanced electrochemical performance of MoO3-coated LiMn2O4 cathode for rechargeable lithium-ion batteries. Materials Chemistry and Physics, 2017, 199, 203-208.	2.0	17
5187	Probing Lithium Storage Mechanism of MoO₂ Nanoflowers with Rich Oxygen-Vacancy Grown on Graphene Sheets. Journal of Physical Chemistry C, 2017, 121, 15589-15596.	1.5	41
5188	Nanocomposites for â€œnano green energyâ€•applications. , 2017, , 421-449.		0
5189	Incorporation of RuO2 into charcoal-derived carbon with controllable microporosity by CO2 activation for high-performance supercapacitor. Carbon, 2017, 122, 287-297.	5.4	204
5190	3D printed functional nanomaterials for electrochemical energy storage. Nano Today, 2017, 15, 107-120.	6.2	302
5191	Copper-Nanoparticle-Induced Porous Si/Cu Composite Films as an Anode for Lithium Ion Batteries. ACS Nano, 2017, 11, 6893-6903.	7.3	82
5192	Cerium Oxide Nanocrystal Embedded Bimodal Micromesoporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithiumâ€“Sulfur Batteries. ACS Nano, 2017, 11, 7274-7283.	7.3	213
5193	Enhanced electrochemical performance of straw-based porous carbon fibers for supercapacitor. Journal of Solid State Electrochemistry, 2017, 21, 3449-3458.	1.2	18
5194	The influence of chitosan chelating agent on the formation of spinel LiMn2O4. Journal of the Australian Ceramic Society, 2017, 53, 895-902.	1.1	7
5195	Lithium ion Conductor and Electronic Conductor Co-coating Modified Layered Cathode Material LiNi1/3Mn1/3Co1/3O2. Electrochimica Acta, 2017, 247, 443-450.	2.6	18
5196	Highly microporous nitrogen doped graphene-like carbon material as an efficient fuel cell catalyst. International Journal of Hydrogen Energy, 2017, 42, 19903-19912.	3.8	14
5197	Na₃V₂(PO₄)₃ coated by N-doped carbon from ionic liquid as cathode materials for high rate and long-life Na-ion batteries. Nanoscale, 2017, 9, 10880-10885.	2.8	57
5198	Hierarchical flower-like C/NiO composite hollow microspheres and its excellent supercapacitor performance. Journal of Power Sources, 2017, 359, 371-378.	4.0	154
5199	Rational design of coaxial MWCNT-COOH@NiCo2S4 hybrid for supercapacitors. Journal of Materials Science, 2017, 52, 9661-9672.	1.7	20

#	Article	IF	Citations
5200	Ni₃FeNâ€Supported Fe₃Pt Intermetallic Nanoalloy as a Highâ€Performance Bifunctional Catalyst for Metalâ€“Air Batteries. Angewandte Chemie - International Edition, 2017, 56, 9901-9905.	7.2	175
5201	Nanostructured Phosphorus Doped Silicon/Graphite Composite as Anode for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 23672-23678.	4.0	120
5202	Built Structure of Ordered Vertically Aligned Codoped Carbon Nanowire Arrays for Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 24840-24845.	4.0	19
5203	Li₂O₂ as a cathode additive for the initial anode irreversibility compensation in lithium-ion batteries. Chemical Communications, 2017, 53, 8324-8327.	2.2	65
5204	Nanostructured Ceramics: Ionic Transport and Electrochemical Activity. Zeitschrift Fur Physikalische Chemie, 2017, 231, 1361-1405.	1.4	25
5205	NiCo2O4-decorated porous carbon nanosheets for high-performance supercapacitors. Electrochimica Acta, 2017, 247, 288-295.	2.6	59
5206	High Specific Capacitance and Energy density of Synthesized Graphene Oxide based Hierarchical Al2S3 Nanorambutan for Supercapacitor Applications. Electrochimica Acta, 2017, 246, 1097-1103.	2.6	80
5207	Decoration of nickel hydroxide nanoparticles onto polypyrrole nanotubes with enhanced electrochemical performance for supercapacitors. Journal of Alloys and Compounds, 2017, 721, 731-740.	2.8	65
5208	Observing Framework Expansion of Ordered Mesoporous Hard Carbon Anodes with Ionic Liquid Electrolytes via in Situ Small-Angle Neutron Scattering. ACS Energy Letters, 2017, 2, 1698-1704.	8.8	16
5209	Metallic Layered Polyester Fabric Enabled Nickel Selenide Nanostructures as Highly Conductive and Binderless Electrode with Superior Energy Storage Performance. Advanced Energy Materials, 2017, 7, 1601362.	10.2	259
5210	Low-Temperature Fuel Cell Technology for Green Energy. , 2017, , 3039-3085.		1
5211	Conducting Polymer Hybrids. Springer Series on Polymer and Composite Materials, 2017, , .	0.5	18
5212	Ironâ€“Air Battery Operating at High Temperature. Energy Technology, 2017, 5, 670-680.	1.8	18
5213	Nanoionics. Topics in Applied Physics, 2017, , 277-309.	0.4	0
5214	Modern progress and future challenges in nanocarriers for probe applications. TrAC - Trends in Analytical Chemistry, 2017, 86, 235-250.	5.8	7
5215	Tailoring porosity in carbon spheres for fast carbon dioxide adsorption. Journal of Colloid and Interface Science, 2017, 487, 162-174.	5.0	28
5216	Orderly integration of porous TiO2(B) nanosheets into bunchy hierarchical structure for high-rate and ultralong-lifespan lithium-ion batteries. Nano Energy, 2017, 31, 1-8.	8.2	109
5217	Designing Sandwiched and Crystallized NiMn₂O₄/C Arrays for Enhanced Sustainable Electrochemical Energy Storage. ACS Sustainable Chemistry and Engineering, 2017, 5, 196-205.	3.2	31

#	Article	IF	Citations
5218	Efficient surface modification of carbon nanotubes for fabricating high performance CNT based hybrid nanostructures. Carbon, 2017, 111, 402-410.	5.4	50
5219	Ionic Liquid-Assisted Fabrication of Graphene-Based Electroactive Composite Materials. , 2017, , 251-290.		0
5220	Bimetalâ€Organic Framework Derived CoFe₂O₄/C Porous Hybrid Nanorod Arrays as Highâ€Performance Electrocatalysts for Oxygen Evolution Reaction. Advanced Materials, 2017, 29, 1604437.	11.1	677
5221	A Highly Efficient and Robust Nanofiber Cathode for Solid Oxide Fuel Cells. Advanced Energy Materials, 2017, 7, 1601890.	10.2	109
5222	Nitrogenâ€Doped Mesoporous Carbonâ€Encapsulated MoO₂ Nanobelts as a Highâ€Capacity and Stable Host for Lithiumâ€Ion Storage. Chemistry - an Asian Journal, 2017, 12, 36-40.	1.7	20
5223	Active sites for oxygen reduction reaction on nitrogen-doped carbon nanotubes derived from polyaniline. Carbon, 2017, 112, 219-229.	5.4	195
5224	One-step electrodeposited 3D-ternary composite of zirconia nanoparticles, rGO and polypyrrole with enhanced supercapacitor performance. Nano Energy, 2017, 31, 225-232.	8.2	86
5225	A universal strategy for metal oxide anchored and binder-free carbon matrix electrode: A supercapacitor case with superior rate performance and high mass loading. Nano Energy, 2017, 31, 311-321.	8.2	169
5226	Copolymerization-Assisted Preparation of Porous LiMn2O4 Hollow Microspheres as High Power Cathode of Lithium-ion Batteries. Journal of Materials Science and Technology, 2017, 33, 781-787.	5.6	18
5227	Novel Hybrid Nanoparticles of Vanadium Nitride/Porous Carbon as an Anode Material for Symmetrical Supercapacitor. Nano-Micro Letters, 2017, 9, 6.	14.4	93
5228	SILAR deposited Bi 2 S 3 thin film towards electrochemical supercapacitor. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 87, 209-212.	1.3	41
5229	Nanoporous materials with a general isotropic plastic matrix: Exact limit state under isotropic loadings. International Journal of Plasticity, 2017, 89, 1-28.	4.1	17
5230	Hierarchitectures of mesoporous flowerlike NiCo2S4 with excellent pseudocapacitive properties. Materials Letters, 2017, 187, 24-27.	1.3	22
5231	A Coldâ€Flow Process for Fabricating a Highâ€Volumetricâ€Energyâ€Density Anode for Lithiumâ€Ion Batteries. Advanced Materials Technologies, 2017, 2, 1600156.	3.0	8
5232	Rational design of reduced graphene oxide for superior performance of supercapacitor electrodes. Carbon, 2017, 111, 774-781.	5.4	57
5233	Thermally oxidation synthesis of CuO nanoneedles on Cu foam and its enhanced lithium storage performance. Journal of Materials Science: Materials in Electronics, 2017, 28, 2353-2357.	1.1	9
5234	Nanostructured TiN-based thin films by a novel and facile synthetic route. Materials and Design, 2017, 113, 142-148.	3.3	9
5235	The preparation and characteristic of poly (3,4-ethylenedioxythiophene)/reduced graphene oxide nanocomposite and its application for supercapacitor electrode. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 216, 16-22.	1.7	58

#	Article	IF	Citations
5236	Synthesis and performance evaluation of novel cobalt hydroxychlorides for electrochemical supercapacitors. Journal of Solid State Electrochemistry, 2017, 21, 939-946.	1.2	12
5237	Fe3O4/SnO2/rGO ternary composite as a high-performance anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 693, 1174-1179.	2.8	30
5238	Carbon-Coated Silicon Nanowires on Carbon Fabric as Self-Supported Electrodes for Flexible Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 9551-9558.	4.0	101
5239	Composites Based on Conducting Polymers and Carbon Nanotubes for Supercapacitors. Springer Series on Polymer and Composite Materials, 2017, , 305-336.	0.5	5
5240	Silicon-multi-walled carbon nanotubes-carbon microspherical composite as high-performance anode for lithium-ion batteries. Journal of Materials Science, 2017, 52, 3630-3641.	1.7	33
5241	An Aqueous Asymmetric Supercapacitor Based on Activated Carbon and Tungsten Trioxide Nanowire Electrodes. Chinese Journal of Chemistry, 2017, 35, 61-66.	2.6	14
5242	Manganese Cobalt Oxide (MnCo₂O₄) Hollow Spheres as High Capacity Anode Materials for Lithiumâ€Ion Batteries. Energy Technology, 2017, 5, 293-299.	1.8	41
5244	Electrochemical characterization of nickel hydroxide nanomaterials as electrodes for Ni-MH batteries. Journal of Solid State Electrochemistry, 2017, 21, 233-241.	1.2	8
5245	Co2(OH)3Cl xerogels with 3D interconnected mesoporous structures as a novel high-performance supercapacitor material. Journal of Solid State Electrochemistry, 2017, 21, 133-143.	1.2	28
5246	When two become one: An insight into 2D conductive oxide interfaces. Journal of Electroceramics, 2017, 38, 1-23.	0.8	46
5247	Constructing highly-efficient electron transport channels in the 3D electrode materials for high-rate supercapacitors: The case of NiCo2O4@NiMoO4 hierarchical nanostructures. Chemical Engineering Journal, 2017, 307, 687-695.	6.6	91
5249	The general synthesis and characterization of rare earth orthovanadate nanocrystals and their electrochemical applications. Journal of Alloys and Compounds, 2017, 693, 825-831.	2.8	24
5250	Sandwich nanostructured LiMnPO4/C as enhanced cathode materials for lithium-ion batteries. Journal of Materials Science, 2017, 52, 3597-3612.	1.7	11
5251	Low-crystallinity molybdenum sulfide nanosheets assembled on carbon nanotubes for long-life lithium storage: Unusual electrochemical behaviors and ascending capacities. Applied Surface Science, 2017, 392, 297-304.	3.1	27
5252	Effect of the pore length and orientation upon the electrochemical capacitive performance of ordered mesoporous carbons. Journal of Energy Chemistry, 2017, 26, 121-128.	7.1	15
5253	Nanostructured cobalt phosphates as excellent biomimetic enzymes to sensitively detect superoxide anions released from living cells. Biosensors and Bioelectronics, 2017, 87, 998-1004.	5.3	59
5254	Noble metal-based materials in high-performance supercapacitors. Inorganic Chemistry Frontiers, 2017, 4, 33-51.	3.0	151
5255	Ultrathin LiFePO 4 nanosheets self-assembled with reduced graphene oxide applied in high rate lithium ion batteries for energy storage. Applied Energy, 2017, 195, 1079-1085.	5.1	27

#	Article	IF	Citations
5256	l-Glutamic acid derived PtPd@Pt core/satellite nanoassemblies as an effectively cathodic electrocatalyst. Journal of Materials Chemistry A, 2017, 5, 3774-3779.	5.2	46
5257	Iron-Doped ZnO for Lithium-Ion Anodes: Impact of the Dopant Ratio and Carbon Coating Content. Journal of the Electrochemical Society, 2017, 164, A6123-A6130.	1.3	19
5258	Turning Hazardous Diesel Soot into High Performance Carbon/MnO₂ Supercapacitive Energy Storage Material. ACS Sustainable Chemistry and Engineering, 2017, 5, 450-459.	3.2	43
5259	A facile synthetic route for highly durable mesoporous platinum thin film electrocatalysts based on graphene: morphological and support effects on the oxygen reduction reaction. Journal of Materials Chemistry A, 2017, 5, 3129-3135.	5.2	29
5260	High performance disulfonated poly(arylene ether sulfone)/poly(ethylene oxide) composite membrane used as a novel separator for supercapacitor with neutral electrolyte and activated carbon electrodes. High Performance Polymers, 2017, 29, 984-993.	0.8	19
5261	Oriented 2.0.0 Cu2O nanoplatelets supported on few-layers graphene as efficient visible light photocatalyst for overall water splitting. Applied Catalysis B: Environmental, 2017, 201, 582-590.	10.8	63
5262	Application of dielectric barrier discharge plasma-assisted milling in energy storage materials â€“ A review. Journal of Alloys and Compounds, 2017, 691, 422-435.	2.8	301
5264	Softening by electrochemical reaction-induced dislocations in lithium-ion batteries. Scripta Materialia, 2017, 127, 33-36.	2.6	26
5265	Facile Synthesis and Electrochemical Investigation of Li₉V₃(P₂O₇)₃(PO₄)₂as High Voltage Cathode for Li-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A6047-A6053.	1.3	6
5266	Redox-electrodes for selective electrochemical separations. Advances in Colloid and Interface Science, 2017, 244, 6-20.	7.0	132
5267	Synthesis of Nitrogenâ€Rich Nanotubes with Internal Compartments having Open Mesoporous Channels and Utilization to Hybrid Fullâ€Cell Capacitors Enabling High Energy and Power Densities over Robust Cycle Life. Advanced Energy Materials, 2017, 7, 1601355.	10.2	54
5268	Nanoporous silicon flakes as anode active material for lithium-ion batteries. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 85, 223-226.	1.3	15
5269	Preparation and Characterization of Nanoporous Copper Films by Chemical Dealloying. ECS Transactions, 2017, 80, 541-550.	0.3	1
5270	Novel Surface Coating Strategies for Better Battery Materials. Surface Innovations, 2017, , 1-23.	1.4	11
5271	On-chip integrated vertically aligned carbon nanotube based super- and pseudocapacitors. Scientific Reports, 2017, 7, 16594.	1.6	30
5272	Quantitative 3D Information of Supported Pd/CMK-3 Catalysts at the Nanoscale. Microscopy and Microanalysis, 2017, 23, 2040-2041.	0.2	0
5273	In Situ TEM Observation on the Agglomeration of Nanoparticles in the Interface of SnO2. Microscopy and Microanalysis, 2017, 23, 2054-2055.	0.2	2
5274	High Density Arrayed Ni/NiO Core-shell Nanospheres Evenly Distributed on Graphene for Ultrahigh Performance Supercapacitor. Scientific Reports, 2017, 7, 17709.	1.6	64

#	Article	IF	Citations
5275	Synthesis and hydrogenation application of Ptâ€“Pd bimetallic nanocatalysts stabilized by macrocycle-modified dendrimer. Royal Society Open Science, 2017, 4, 171414.	1.1	11
5276	Ionic Liquid-Containing Composite Poly(ethylene oxide) Electrolyte Reinforced by Electrospun Silica Nanofiber. Journal of the Electrochemical Society, 2017, 164, A3357-A3361.	1.3	13
5277	Simultaneous modulation of surface composition, oxygen vacancies and assembly in hierarchical Co₃O₄ mesoporous nanostructures for lithium storage and electrocatalytic oxygen evolution. Nanoscale, 2017, 9, 14431-14441.	2.8	77
5278	Influence of Blend on the Conductivity in Poly(Ethyl Methacrylate)/Poly(Vinyl Acetate) Based Polymer Electrolytes. Nano Hybrids and Composites, 2017, 17, 202-216.	0.8	1
5279	Surface plasmon of gold nanoparticle on diatom template as Light Scattering Center for local field enhancer. Optical and Quantum Electronics, 2017, 49, 1.	1.5	3
5280	Metal-semiconductor coreâ€“shell nanomaterials for energy applications. , 2017, , 99-132.		1
5281	Electrolytic Manganese Dioxide Coatings on High Aspect Ratio Micro-Pillar Arrays for 3D Thin Film Lithium Ion Batteries. Nanomaterials, 2017, 7, 126.	1.9	9
5282	Solvothermal Synthesis of a Hollow Micro-Sphere LiFePO4/C Composite with a Porous Interior Structure as a Cathode Material for Lithium Ion Batteries. Nanomaterials, 2017, 7, 368.	1.9	11
5283	Novel Mesoporous Flowerlike Iron Sulfide Hierarchitectures: Facile Synthesis and Fast Lithium Storage Capability. Nanomaterials, 2017, 7, 431.	1.9	18
5284	Molecular Spring Enabled High-Performance Anode for Lithium Ion Batteries. Polymers, 2017, 9, 657.	2.0	16
5285	Carbon-Based Nanomaterials in Biomass-Based Fuel-Fed Fuel Cells. Sensors, 2017, 17, 2587.	2.1	23
5286	Photodegradation of Rhodamine B over Biomass-Derived Activated Carbon Supported CdS Nanomaterials under Visible Irradiation. Frontiers in Chemistry, 2017, 5, 123.	1.8	45
5287	Graphene Encapsulated Silicon Carbide Nanocomposites for High and Low Power Energy Storage Applications. Journal of Carbon Research, 2017, 3, 20.	1.4	6
5288	Battery Storage Technologies for Electrical Applications: Impact in Stand-Alone Photovoltaic Systems. Energies, 2017, 10, 1760.	1.6	100
5289	Recent Progress in Synthesis and Application of Low-Dimensional Silicon Based Anode Material for Lithium Ion Battery. Journal of Nanomaterials, 2017, 2017, 1-15.	1.5	12
5290	The Fabrication of Porous Si with Interconnected Micro-Sized Dendrites and Tunable Morphology through the Dealloying of a Laser Remelted Alâ€“Si Alloy. Materials, 2017, 10, 357.	1.3	7
5291	Fabrication of hierarchically porous TiO2 nanofibers by microemulsion electrospinning and their application as anode material for lithium-ion batteries. Beilstein Journal of Nanotechnology, 2017, 8, 1297-1306.	1.5	5
5292	Hierarchically encapsulated MoO<inf>3</inf>@SnO<inf>2</inf> nanobelts as negative electrodes of supercapacitors. , 2017, , .		0

#	Article	IF	Citations
5293	Electrochemical Properties of Deactivated CuOx/Active Carbon Catalyst. International Journal of Electrochemical Science, 2017, , 8241-8255.	0.5	0
5294	Hierarchical NiMoO₄ nanowire as an anode material for lithium ion batteries. IOP Conference Series: Materials Science and Engineering, 2017, 274, 012163.	0.3	1
5295	Capacitance of MnO2 Micro-Flowers Decorated CNFs in Alkaline Electrolyte and Its Bi-Functional Electrocatalytic Activity toward Hydrazine Oxidation. International Journal of Electrochemical Science, 2017, 12, 2583-2592.	0.5	2
5296	Block copolymers from ionic liquids for the preparation of thin carbonaceous shells. Beilstein Journal of Organic Chemistry, 2017, 13, 1693-1701.	1.3	2
5297	Preparation of Graphene Oxide Paper as an Electrode for Lithium-Ion Batteries Based on a Vacuum Filtration Method. International Journal of Electrochemical Science, 2017, 12, 8944-8952.	0.5	8
5298	Nanoarchitectonics for Energy and Environment. , 2017, , 279-323.		0
5299	N,P,S-Codoped Hierarchically Porous Carbon Spheres with Well-Balanced Gravimetric/Volumetric Capacitance for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 5265-5272.	3.2	120
5300	High-performance graphdiyne-based electrochemical actuators. Nature Communications, 2018, 9, 752.	5.8	268
5301	Mismatch in cation size causes rapid anion dynamics in solid electrolytes: the role of the Arrhenius pre-factor. Dalton Transactions, 2018, 47, 4105-4117.	1.6	25
5302	B-Site Cation-Ordered Double-Perovskite Oxide as an Outstanding Electrode Material for Supercapacitive Energy Storage Based on the Anion Intercalation Mechanism. ACS Applied Materials & Interfaces, 2018, 10, 9415-9423.	4.0	69
5303	Improving the electrochemical performances of active carbon-based supercapacitors through the combination of introducing functional groups and using redox additive electrolyte. Journal of Saudi Chemical Society, 2018, 22, 908-918.	2.4	29
5304	In-situ growth of Se-doped NiTe on nickel foam as positive electrode material for high-performance asymmetric supercapacitor. Materials Chemistry and Physics, 2018, 211, 389-398.	2.0	38
5305	Tungsten Carbide as a Highly Efficient Catalyst for Polysulfide Fragmentations in Liâ€“S Batteries. Journal of Physical Chemistry C, 2018, 122, 7664-7669.	1.5	39
5306	Laminated Carbon Nanotubes for the Facile Fabrication of Cost-Effective Polymer Solar Cells. ACS Applied Energy Materials, 2018, 1, 1226-1232.	2.5	7
5307	Graphene hybridization for energy storage applications. Chemical Society Reviews, 2018, 47, 3189-3216.	18.7	297
5308	Merger of Energetic Affinity and Optimal Geometry Provides New Class of Boron Nitride Based Sorbents with Unprecedented Hydrogen Storage Capacity. Small, 2018, 14, 1702863.	5.2	15
5309	Room-temperature vertically-aligned copper oxide nanoblades synthesized by electrochemical restructuring of copper hydroxide nanorods: An electrode for high energy density hybrid device. Journal of Power Sources, 2018, 383, 124-132.	4.0	46
5311	One-step production of O-N-S co-doped three-dimensional hierarchical porous carbons for high-performance supercapacitors. Nano Energy, 2018, 47, 547-555.	8.2	547

#	Article	IF	Citations
5312	Unraveling the Beneficial Electrochemistry of IrO₂/MoO₃ Hybrid as a Highly Stable and Efficient Oxygen Evolution Reaction Catalyst. ACS Sustainable Chemistry and Engineering, 2018, 6, 4854-4862.	3.2	98
5313	Ionic conductivity enhancement by particle size reduction in Li2FeSiO4. Materials Letters, 2018, 218, 313-316.	1.3	19
5314	Compact-Nanobox Engineering of Transition Metal Oxides with Enhanced Initial Coulombic Efficiency for Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2018, 10, 8955-8964.	4.0	38
5315	Coaxial MnO₂Nanoshell/CNFs Composite Film Anode for High-Performance Lithium-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A487-A492.	1.3	12
5316	High Capacity and Superior Cyclic Performances of All-Solid-State Lithium Batteries Enabled by a Glassâ€“Ceramics Solo. ACS Applied Materials & Interfaces, 2018, 10, 10029-10035.	4.0	37
5317	Recent development on carbon based heterostructures for their applications in energy and environment: A review. Journal of Industrial and Engineering Chemistry, 2018, 64, 16-59.	2.9	146
5318	Anchoring Mn₃O₄ Nanoparticles on Oxygen Functionalized Carbon Nanotubes as Bifunctional Catalyst for Rechargeable Zinc-Air Battery. ACS Applied Energy Materials, 2018, 1, 963-969.	2.5	80
5319	Synthesis of porous Co3O4/C nanoparticles as anode for Li-ion battery application. Applied Surface Science, 2018, 443, 401-406.	3.1	36
5320	Exceptional Lithium Storage in a Co(OH)₂ Anode: Hydride Formation. ACS Nano, 2018, 12, 2909-2921.	7.3	64
5321	Mn2SiO4/CNT composites as anode materials for high performance lithium-ion batteries. Journal of Materials Science: Materials in Electronics, 2018, 29, 7867-7875.	1.1	5
5322	In situ fabrication of a graphene-coated three-dimensional nickel oxide anode for high-capacity lithium-ion batteries. RSC Advances, 2018, 8, 7414-7421.	1.7	11
5323	A Hybrid Mineral Battery: Energy Storage and Dissolution Behavior of CuFeS₂ in a Fixed Bed Flow Cell. ChemSusChem, 2018, 11, 1533-1548.	3.6	14
5324	High-performance lithium sulfur batteries based on nitrogen-doped graphitic carbon derived from covalent organic frameworks. Materials Today Energy, 2018, 7, 141-148.	2.5	30
5325	Block copolymer derived 3-D interpenetrating multifunctional gyroidal nanohybrids for electrical energy storage. Energy and Environmental Science, 2018, 11, 1261-1270.	15.6	124
5326	Hierarchical three-dimensional flower-like Co3O4 architectures with a mesocrystal structure as high capacity anode materials for long-lived lithium-ion batteries. Nano Research, 2018, 11, 1437-1446.	5.8	102
5327	Silicon Nanoparticles Within the Carbonized SU-8 Cages as A Micro Lithium-Ion Battery Anode. Journal of Microelectromechanical Systems, 2018, 27, 201-209.	1.7	5
5328	Hollow NiCo₂S₄ Nanospheres Hybridized with 3D Hierarchical Porous rGO/Fe₂O₃ Composites toward Highâ€Performance Energy Storage Device. Advanced Energy Materials, 2018, 8, 1703453.	10.2	142
5329	Hybrid NiCo₂O₄â€NiCo₂S₄ Nanoflakes as Highâ€Performance Anode Materials for Lithiumâ€Ion Batteries. ChemistrySelect, 2018, 3, 2315-2320.	0.7	13

#	Article	IF	Citations
5330	Polyethylene oxide film coating enhances lithium cycling efficiency of an anode-free lithium-metal battery. Nanoscale, 2018, 10, 6125-6138.	2.8	215
5331	Unveiling BiVO₄ nanorods as a novel anode material for high performance lithium ion capacitors: beyond intercalation strategies. Journal of Materials Chemistry A, 2018, 6, 6096-6106.	5.2	78
5332	Supercapacitive performance of porous graphene nanosheets in bis(trifluoromethylsulfony)imide and bis(fluorosulfonyl)imide ionic liquid electrolytes. Journal of Solid State Electrochemistry, 2018, 22, 2197-2203.	1.2	4
5333	3.0 V High Energy Density Symmetric Sodium-Ion Battery: Na₄V₂(PO₄)₃â^¥Na₃V₂(PO₄₃. ACS Applied Materials & Interfaces, 2018, 10, 10022-10028.	7.9	73
5334	Uniform Co₃V₂O₈ microspheres via controllable assembly for high-performance lithium-ion battery anodes. New Journal of Chemistry, 2018, 42, 4881-4886.	1.4	9
5335	Thermal Decomposition Synthesis of Graphene Nanosheets Anchored on Mn3O4 Nanoparticles as Anodes in Lithium Ion Batteries. IOP Conference Series: Materials Science and Engineering, 2018, 301, 012108.	0.3	0
5336	High-Performance Anode Materials for Rechargeable Lithium-Ion Batteries. Electrochemical Energy Reviews, 2018, 1, 35-53.	13.1	514
5337	High Performance One Dimensional Î±-MoO3 Nanorods for Supercapacitor Applications. Ceramics International, 2018, 44, 9967-9975.	2.3	89
5338	In-situ synthesis of NiO foamed sheets on Ni foam as efficient cathode of battery-type supercapacitor. Electrochimica Acta, 2018, 269, 62-69.	2.6	46
5339	Colloidal Nanocrystal Films Reveal the Mechanism for Intermediate Temperature Proton Conductivity in Porous Ceramics. Journal of Physical Chemistry C, 2018, 122, 13624-13635.	1.5	10
5340	Structural and melting properties of Cu-Ni clusters: A simulation study. Journal of Alloys and Compounds, 2018, 752, 76-84.	2.8	20
5341	Robust erythrocyte-like Fe2O3@carbon with yolk-shell structures as high-performance anode for lithium ion batteries. Chemical Engineering Journal, 2018, 347, 563-573.	6.6	179
5342	3D interconnected hierarchical porous N-doped carbon constructed by flake-like nanostructure with Fe/Fe₃C for efficient oxygen reduction reaction and supercapacitor. Nanoscale, 2018, 10, 9252-9260.	2.8	97
5343	A facile one-step hydrothermal approach to synthesize hierarchical coreâ€“shell NiFe₂O₄@NiFe₂O₄ nanosheet arrays on Ni foam with large specific capacitance for supercapacitors. RSC Advances, 2018, 8, 15222-15228.	1.7	40
5344	Nanocomposite Polymer Electrolytes for the Lithium Power Sources (a Review). Russian Journal of Electrochemistry, 2018, 54, 325-343.	0.3	30
5345	Heterogeneous nanostructure array for electrochemical energy conversion and storage. Nano Today, 2018, 20, 33-57.	6.2	68
5346	2D Porous TiO₂ Singleâ€Crystalline Nanostructure Demonstrating High Photoâ€Electrochemical Water Splitting Performance. Advanced Materials, 2018, 30, e1705666.	11.1	176
5347	Facile synthesis of NiCo2S4 nanowire arrays on 3D graphene foam for high-performance electrochemical capacitors application. Journal of Materials Science, 2018, 53, 10292-10301.	1.7	38

#	Article	IF	Citations
5348	Simultaneous Enhancement of the Performance and Stability of MnO₂ Based Lithium Ion Battery Anodes by Compositing with Fluorine Terminated Functionalized Graphene Oxide. ChemistrySelect, 2018, 3, 3958-3964.	0.7	3
5349	Nitrogen, Fluorine, and Boron Ternary Doped Carbon Fibers as Cathode Electrocatalysts for Zincâ€“Air Batteries. Small, 2018, 14, e1800737.	5.2	159
5350	Non-carbon Support Materials Used in Low-Temperature Fuel Cells. , 2018, , 145-170.		1
5351	Functional inks and printing of two-dimensional materials. Chemical Society Reviews, 2018, 47, 3265-3300.	18.7	401
5352	Mesoporous TiO2/TiC@C Composite Membranes with Stable TiO2-C Interface for Robust Lithium Storage. IScience, 2018, 3, 149-160.	1.9	45
5353	Oxygen-rich porous carbon sheets: Facile one-step synthesis and enhanced electrochemical performance. Diamond and Related Materials, 2018, 85, 89-97.	1.8	20
5354	Examining the validity of Stoney-equation for in-situ stress measurements in thin film electrodes using a large-deformation finite-element procedure. Journal of Power Sources, 2018, 387, 126-134.	4.0	13
5355	DNA metallization: principles, methods, structures, and applications. Chemical Society Reviews, 2018, 47, 4017-4072.	18.7	156
5356	Toward High Performance Lithiumâ€“Sulfur Batteries Based on Li₂S Cathodes and Beyond: Status, Challenges, and Perspectives. Advanced Functional Materials, 2018, 28, 1800154.	7.8	107
5357	Flexible, Scalable, and Highly Conductive Garnetâ€Polymer Solid Electrolyte Templated by Bacterial Cellulose. Advanced Energy Materials, 2018, 8, 1703474.	10.2	189
5358	Formation mechanism and characterization of porous biomass carbon for excellent performance lithium-ion batteries. RSC Advances, 2018, 8, 12666-12671.	1.7	27
5359	2Dâ€2D Nanocomposite of MoS₂â€Graphitic Carbon Nitride as Multifunctional Catalyst for Sustainable Synthesis of C3â€Functionalized Indoles. ChemCatChem, 2018, 10, 3121-3132.	1.8	33
5360	Reversible Delithiation of Disordered Rock Salt LiVO₂. ChemElectroChem, 2018, 5, 1484-1490.	1.7	24
5361	Phosphorization boosts the capacitance of mixed metal nanosheet arrays for high performance supercapacitor electrodes. Nanoscale, 2018, 10, 11775-11781.	2.8	274
5362	Î±â€Fe₂O₃/TiO₂ Hybrids with Tunable Morphologies as Efficient Photocatalysts and Positive Electrodes for Supercapacitors. ChemistrySelect, 2018, 3, 3284-3294.	0.7	5
5363	One-pot synthesis and characterization of MnCO3 hierarchical micro/nano twin-spheres with superior lithium storage performances. Journal of Materials Science: Materials in Electronics, 2018, 29, 10117-10122.	1.1	13
5364	One-step fabrication of surface-decorated inorganic nanowires via single-nozzle electrospinning. Ceramics International, 2018, 44, 11858-11861.	2.3	3
5365	Metal-organic frameworks derived porous carbon coated SiO composite as superior anode material for lithium ion batteries. Journal of Alloys and Compounds, 2018, 765, 512-519.	2.8	29

#	Article	IF	Citations
5366	Rapid Synthesis of 3D Porous Nitrogen-Doped Carbon Nanospheres (N-CNSs) and Carbon Nanoboxes (CNBs) for Supercapacitor Electrodes. Journal of the Electrochemical Society, 2018, 165, A918-A923.	1.3	3
5367	Nanostructured copperâ€“cobalt based spinel for the electrocatalytic H2O2 reduction reaction. Electrochimica Acta, 2018, 273, 474-482.	2.6	21
5368	Enhancement in Proton Conductivity and Thermal Stability in Nafion Membranes Induced by Incorporation of Sulfonated Carbon Nanotubes. ACS Applied Materials & Interfaces, 2018, 10, 14026-14035.	4.0	131
5369	Rapid Li Ion Dynamics in the Interfacial Regions of Nanocrystalline Solids. Journal of Physical Chemistry Letters, 2018, 9, 2093-2097.	2.1	36
5370	Morphology-Controlled One-Step Synthesis of Nanostructured LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂ Electrodes for Li-Ion Batteries. ACS Omega, 2018, 3, 3966-3973.	1.6	25
5371	A general strategy for the synthesis of two-dimensional holey nanosheets as cathodes for superior energy storage. Journal of Materials Chemistry A, 2018, 6, 8374-8381.	5.2	27
5372	Ferromagnetic Nanoparticleâ€“Assisted Polysulfide Trapping for Enhanced Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1800563.	7.8	109
5373	Encapsulating ionic liquids into POM-based MOFs to improve their conductivity for superior lithium storage. Journal of Materials Chemistry A, 2018, 6, 8735-8741.	5.2	95
5374	Formation Dynamics of Potassium-Based Graphite Intercalation Compounds: An AbÂInitio Study. Physical Review Applied, 2018, 9, .	1.5	7
5375	Encapsulating Silica/Antimony into Porous Electrospun Carbon Nanofibers with Robust Structure Stability for High-Efficiency Lithium Storage. ACS Nano, 2018, 12, 3406-3416.	7.3	149
5376	Nanostructured Ferroelectricâ€Polymer Composites for Capacitive Energy Storage. Small Methods, 2018, 2, 1700399.	4.6	147
5378	In situ encapsulation of tin oxide and cobalt oxide composite in porous carbon for high-performance energy storage applications. Journal of Electroanalytical Chemistry, 2018, 817, 217-225.	1.9	38
5379	Nanoengineering of 2D tin sulfide nanoflake arrays incorporated on polyaniline nanofibers with boosted capacitive behavior. 2D Materials, 2018, 5, 031005.	2.0	20
5380	Carbon-coated hierarchical spinel Fe1.5V1.5O4 nanorods: A promising anode material for enhanced lithium storage. Journal of Alloys and Compounds, 2018, 746, 108-115.	2.8	17
5381	Rambutan-like cobalt nickel sulfide (CoNi2S4) hierarchitecture for high-performance symmetric aqueous supercapacitors. Journal of Industrial and Engineering Chemistry, 2018, 63, 73-83.	2.9	53
5382	Ternary interfacial superstructure enabling extraordinary hydrogen evolution electrocatalysis. Materials Today, 2018, 21, 602-610.	8.3	48
5383	One-pot synthesis of nickel-cobalt hydroxyfluorides nanowires with ultrahigh energy density for an asymmetric supercapacitor. Science Bulletin, 2018, 63, 322-330.	4.3	16
5384	High-Throughput Computational Approach to Li/Vacancy Configurations and Structural Evolution during Delithiation: The Case of Li₂MnO₃ Surface. Journal of Physical Chemistry C, 2018, 122, 5496-5508.	1.5	4

#	Article	IF	Citations
5385	Red phosphorus encapsulated in porous carbon derived from cigarette filter solid waste as a promising anode material for lithium-ion batteries. Ionics, 2018, 24, 3393-3403.	1.2	11
5386	CaTiO3 perovskite in the framework of activated carbon and its effect on enhanced electrochemical capacitance. Electrochimica Acta, 2018, 268, 73-81.	2.6	29
5387	Direct Visualization of the Reversible O^{2â^'}/O^{â^'} Redox Process in Liâ€Rich Cathode Materials. Advanced Materials, 2018, 30, e1705197.	11.1	264
5388	Lysosomal deposition of copper oxide nanoparticles triggers HUVEC cells death. Biomaterials, 2018, 161, 228-239.	5.7	85
5389	Engineering nanomaterials-based biosensors for food safety detection. Biosensors and Bioelectronics, 2018, 106, 122-128.	5.3	253
5390	Hierarchically carbon-coated Na3V2(PO4)3 nanoflakes for high-rate capability and ultralong cycle-life sodium ion batteries. Chemical Engineering Journal, 2018, 339, 162-169.	6.6	67
5391	Enhanced electrochemical capacitance and oil-absorbability of N-doped graphene aerogel by using amino-functionalized silica as template and doping agent. Journal of Power Sources, 2018, 379, 240-248.	4.0	35
5392	Porous NaTi2(PO4)3 nanoparticles coated with a thin carbon layer for sodium-ion batteries with enhanced rate and cycling performance. Materials Letters, 2018, 218, 14-17.	1.3	5
5393	High-rate FeS2/CNT neural network nanostructure composite anodes for stable, high-capacity sodium-ion batteries. Nano Energy, 2018, 46, 117-127.	8.2	200
5394	Rational Synthesis and Assembly of Ni₃S₄ Nanorods for Enhanced Electrochemical Sodium-Ion Storage. ACS Nano, 2018, 12, 1829-1836.	7.3	104
5395	A clean and membrane-free chlor-alkali process with decoupled Cl2 and H2/NaOH production. Nature Communications, 2018, 9, 438.	5.8	76
5396	Strain effects on the anisotropic thermal transport in crystalline polyethylene. Applied Physics Letters, 2018, 112, .	1.5	31
5397	Amphiphilic ligand exchange reaction-induced supercapacitor electrodes with high volumetric and scalable areal capacitances. Applied Surface Science, 2018, 440, 730-740.	3.1	7
5398	Sandwich-like C@SnO2/Sn/void@C hollow spheres as improved anode materials for lithium ion batteries. Journal of Power Sources, 2018, 379, 191-196.	4.0	67
5399	Electrochemical and structural investigation of transition metal doped V2O5 sono-aerogel cathodes for lithium metal batteries. Solid State Ionics, 2018, 319, 46-52.	1.3	16
5400	Induction of oxidative stress and sensitization of cancer cells to paclitaxel by gold nanoparticles with different charge densities and hydrophobicities. Journal of Materials Chemistry B, 2018, 6, 1633-1639.	2.9	45
5401	Nanostructured Conversion-type Anode Materials for Advanced Lithium-Ion Batteries. CheM, 2018, 4, 972-996.	5.8	591
5402	Freestanding 3D single-wall carbon nanotubes/WS2 nanosheets foams as ultra-long-life anodes for rechargeable lithium ion batteries. Electrochimica Acta, 2018, 267, 133-140.	2.6	58

#	Article	IF	Citations
5403	Highly synergetic catalytic mechanism of Ni@g-C3N4 on the superior hydrogen storage performance of Li-Mg-B-H system. Energy Storage Materials, 2018, 13, 199-206.	9.5	58
5404	Synthesis of spherical and cubic magnetic iron oxide nanocrystals at low temperature in air. Journal of Colloid and Interface Science, 2018, 518, 27-33.	5.0	11
5405	The application of nanostructured transition metal sulfides as anodes for lithium ion batteries. Journal of Energy Chemistry, 2018, 27, 1536-1554.	7.1	212
5406	Polymer nanofibre composite nonwovens with metal-like electrical conductivity. Npj Flexible Electronics, 2018, 2, .	5.1	29
5407	Ab initio investigation of the thermodynamics of cation distribution and of the electronic and magnetic structures in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LiMn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> spinel. Physical Review B, 2018, 97, .	3.7	11
5408	Synthesis of porous MnO2-CoO microsheets and nanocones as a high-performance battery-type capacitive material. Materials Research Bulletin, 2018, 101, 123-131.	2.7	3
5409	Ethylene glycol-mediated rapid synthesis of carbon-coated ZnFe2O4 nanoflakes with long-term and high-rate performance for lithium-ion batteries. Dalton Transactions, 2018, 47, 3521-3529.	1.6	38
5410	Boron-doped porous Si anode materials with high initial coulombic efficiency and long cycling stability. Journal of Materials Chemistry A, 2018, 6, 3022-3027.	5.2	113
5411	V₂O₅-Based nanomaterials: synthesis and their applications. RSC Advances, 2018, 8, 4014-4031.	1.7	141
5412	Lithium effects on the mechanical and electronic properties of germanium nanowires. Nanotechnology, 2018, 29, 154004.	1.3	9
5414	Electrochemical Activity of Hematite Phase in Fullâ€Cell Liâ€ion Assemblies. Advanced Energy Materials, 2018, 8, 1702841.	10.2	16
5415	Beyond Insertion for Naâ€ion Batteries: Nanostructured Alloying and Conversion Anode Materials. Advanced Energy Materials, 2018, 8, 1702582.	10.2	231
5416	Facile Synthesis of Ni-Based Catalysts by Adsorption and Conversion of Metal Ions on Graphene Oxide for Methanol Oxidation. Electrocatalysis, 2018, 9, 429-436.	1.5	6
5417	One-Step Electrodeposition of Nanocrystalline TiO₂ Films with Enhanced Photoelectrochemical Performance and Charge Storage. ACS Applied Energy Materials, 2018, 1, 851-858.	2.5	32
5418	Highly Dual-Heteroatom-Doped Ultrathin Carbon Nanosheets with Expanded Interlayer Distance for Efficient Energy Storage. ACS Sustainable Chemistry and Engineering, 2018, 6, 3143-3153.	3.2	38
5419	Tuning the Electronic Structure of an Aluminum Phosphide Nanotube through Configuration of the Lattice Geometry. ACS Applied Nano Materials, 2018, 1, 501-504.	2.4	1
5420	Steel: The Resurrection of a Forgotten Water-Splitting Catalyst. ACS Energy Letters, 2018, 3, 574-591.	8.8	122
5421	N-rich graphitic carbon nitride functionalized graphene oxide nanosheet hybrid as anode for high performance lithium-ion batteries. Materials Research Express, 2018, 5, 016307.	0.8	18

#	Article	IF	Citations
5422	Flexible and freestanding supercapacitor based on nanostructured poly(m-aminophenol)/carbon nanofiber hybrid mats with high energy and power densities. Nanotechnology, 2018, 29, 165401.	1.3	23
5423	A Highly Stretchable Crossâ€Linked Polyacrylamide Hydrogel as an Effective Binder for Silicon and Sulfur Electrodes toward Durable Lithiumâ€Ion Storage. Advanced Functional Materials, 2018, 28, 1705015.	7.8	148
5424	Tuning the Highâ€Temperature Wetting Behavior of Metals toward Ultrafine Nanoparticles. Angewandte Chemie - International Edition, 2018, 57, 2625-2629.	7.2	9
5425	High-Performance Ga₂O₃ Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 5519-5526.	4.0	60
5426	Tuning the Highâ€Temperature Wetting Behavior of Metals toward Ultrafine Nanoparticles. Angewandte Chemie, 2018, 130, 2655-2659.	1.6	1
5427	Tunable Synthesis of Colorful Nitrogen-Doped Titanium Oxide and Its Application in Energy Storage. ACS Applied Energy Materials, 2018, 1, 876-882.	2.5	18
5428	Rational synthesis of Li₄Ti₅O₁₂/N-C nanotube arrays as advanced high-rate electrodes for lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 3857-3863.	5.2	54
5429	A two-dimensional nitrogen-rich carbon/silicon composite as high performance anode material for lithium ion batteries. Chemical Engineering Journal, 2018, 341, 37-46.	6.6	95
5430	Supercapacitive properties of composite electrode consisting of activated carbon and quinone derivatives. Journal of Industrial and Engineering Chemistry, 2018, 63, 12-18.	2.9	12
5431	Coupled s-p-d Exchange in Facet-Controlled Pd3Pb Tripods Enhances Oxygen Reduction Catalysis. CheM, 2018, 4, 359-371.	5.8	100
5432	Preparation of nitrogen-doped porous carbons for high-performance supercapacitor using biomass of waste lotus stems. RSC Advances, 2018, 8, 6806-6813.	1.7	42
5433	High-energy sodium-ion capacitor assembled by hierarchical porous carbon electrodes derived from Enteromorpha. Journal of Materials Science, 2018, 53, 6763-6773.	1.7	31
5434	Nickel treatment of biomass-derived nanocarbon for energy devices. Carbon, 2018, 130, 724-729.	5.4	7
5435	Siliconâ€Based Anodes for Lithiumâ€Ion Batteries: From Fundamentals to Practical Applications. Small, 2018, 14, 1702737.	5.2	650
5436	Understanding Fundamentals and Reaction Mechanisms of Electrode Materials for Naâ€Ion Batteries. Small, 2018, 14, e1703338.	5.2	86
5437	High-Performance Silicon Photoanode Using Nickel/Iron as Catalyst for Efficient Ethanol Oxidation Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 4231-4238.	3.2	15
5438	Structural Directed Growth of Ultrathin Parallel Birnessite on Î²-MnO₂ for High-Performance Asymmetric Supercapacitors. ACS Nano, 2018, 12, 1033-1042.	7.3	436
5439	Sandwich-like Cu2-xSe@C@MoSe2 nanosheets as an improved-performance anode for lithium-ion battery. Electrochimica Acta, 2018, 259, 841-849.	2.6	36

#	Article	IF	Citations
5440	Stable Lowâ€Current Electrodeposition of Î±â€MnO₂ on Superaligned Electrospun Carbon Nanofibers for Highâ€Performance Energy Storage. Small, 2018, 14, 1703237.	5.2	30
5441	Formation of CMK-3/Co 3 O 4 nanosheets on nickel foam with markedly enhanced pseudocapacitive properties. Journal of Materials Science and Technology, 2018, 34, 1538-1543.	5.6	22
5442	The influence of pyrolysis temperature on the electrochemical behavior of porous carbon-rich SiCN polymer-derived ceramics. Solid State Ionics, 2018, 315, 59-64.	1.3	21
5443	Nanostructural Uniformity of Ordered Mesoporous Materials: Governing Lithium Storage Behaviors. Small, 2018, 14, e1702985.	5.2	17
5444	Simple modification with amine- and hydroxyl- group rich biopolymer on ordered mesoporous carbon/sulfur composite for lithium-sulfur batteries. Korean Journal of Chemical Engineering, 2018, 35, 579-586.	1.2	37
5445	Controllable synthesis of hierarchical MgMoO4 nanosheet-arrays and nano-flowers assembled with mesoporous ultrathin nanosheets. Journal of Physics and Chemistry of Solids, 2018, 115, 215-220.	1.9	11
5446	Wet chemical synthesis and characterization of nanocrystalline ZnWO4 for application in Li-ion batteries. Materials Chemistry and Physics, 2018, 207, 367-372.	2.0	19
5447	Nanomaterials and technologies for low temperature solid oxide fuel cells: Recent advances, challenges and opportunities. Nano Energy, 2018, 45, 148-176.	8.2	363
5448	Synthesis of Co₂V₂O₇ Hollow Cylinders with Enhanced Lithium Storage Properties using H₂O₂ as an Etching Agent. ChemElectroChem, 2018, 5, 737-742.	1.7	15
5449	PEDOT coated iron phosphide nanorod arrays as high-performance supercapacitor negative electrodes. Chemical Communications, 2018, 54, 794-797.	2.2	52
5450	Combined effect of nitrogen and oxygen heteroatoms and micropores of porous carbon frameworks from Schiff-base networks on their high supercapacitance. Journal of Materials Chemistry A, 2018, 6, 1621-1629.	5.2	59
5451	High Rate Capability and Enhanced Cyclability of Na₃V₂(PO₄)₂F₃ Cathode by Inâ€…Situ Coating of Carbon Nanofibers for Sodiumâ€Ion Battery Applications. Chemistry - A European Journal, 2018, 24, 2913-2919.	1.7	34
5452	Lithiumâ€“Sulfur Capacitors. ACS Applied Materials & Interfaces, 2018, 10, 6199-6206.	4.0	7
5453	Stable and Reversible Lithium Storage with High Pseudocapacitance in GaN Nanowires. ACS Applied Materials & Interfaces, 2018, 10, 2574-2580.	4.0	52
5454	Nanoporous metal by dealloying for electrochemical energy conversion and storage. MRS Bulletin, 2018, 43, 43-48.	1.7	96
5455	Localized concentration reversal of lithium during intercalation into nanoparticles. Science Advances, 2018, 4, eaao2608.	4.7	50
5456	Synthesis of Si nanosheets by using Sodium Chloride as template for high-performance lithium-ion battery anode material. Journal of Power Sources, 2018, 379, 20-25.	4.0	51
5457	Highly porous coral-like silicon particles synthesized by an ultra-simple thermal-reduction method. Journal of Materials Chemistry A, 2018, 6, 2834-2846.	5.2	31

#	Article	IF	Citations
5458	Hydrogen storage kinetics: The graphene nanoplatelet size effect. Carbon, 2018, 130, 369-376.	5.4	32
5459	A high-performance tin dioxide@carbon anode with a super high initial coulombic efficiency via a primary cell prelithiation process. Journal of Alloys and Compounds, 2018, 740, 830-835.	2.8	14
5460	Graphene aerogels for efficient energy storage and conversion. Energy and Environmental Science, 2018, 11, 772-799.	15.6	435
5461	Construction of Coreâ€“Shell NiMoO₄@Ni-Co-S Nanorods as Advanced Electrodes for High-Performance Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 4662-4671.	4.0	195
5462	Electrodeâ€“electrolyte interfaces in lithium-based batteries. Energy and Environmental Science, 2018, 11, 527-543.	15.6	474
5463	Flexible supercapacitors based on carbon nanotubes. Chinese Chemical Letters, 2018, 29, 571-581.	4.8	88
5464	Electrocatalytic hydrogen evolution of palladium nanoparticles electrodeposited on nanographene coated macroporous electrically conductive network. International Journal of Hydrogen Energy, 2018, 43, 2171-2183.	3.8	12
5465	Analysis of Degradation Mechanisms in Quinone-Based Electrodes for Aqueous Electrolyte System via In Situ XRD Measurements. Journal of Physical Chemistry C, 2018, 122, 2461-2466.	1.5	15
5466	Enhanced Ultrafast Nonlinear Optical Response in Ferrite Core/Shell Nanostructures with Excellent Optical Limiting Performance. Small, 2018, 14, 1701001.	5.2	51
5467	Multiple electrical response and enhanced energy storage induced by unusual coexistent-phase structure in relaxor ferroelectric ceramics. Acta Materialia, 2018, 146, 202-210.	3.8	83
5468	Facet-Dependent Rock-Salt Reconstruction on the Surface of Layered Oxide Cathodes. Chemistry of Materials, 2018, 30, 692-699.	3.2	53
5469	NiCuCo₂O₄ Supported Niâ€“Cu Ion-Exchanged Mesoporous Zeolite Heteronano Architecture: An Efficient, Stable, and Economical Nonprecious Electrocatalyst for Methanol Oxidation. ACS Sustainable Chemistry and Engineering, 2018, 6, 2023-2036.	3.2	51
5470	Hybrid nanowires and nanoparticles of WO₃ in a carbon aerogel for supercapacitor applications. Nanoscale, 2018, 10, 4209-4217.	2.8	75
5471	Bilayered nanoporous graphene/molybdenum oxide for high rate lithium ion batteries. Nano Energy, 2018, 45, 273-279.	8.2	54
5472	Search for thermoelectricity in Li-based half-Heusler alloys: a DFT study. Materials Research Express, 2018, 5, 014009.	0.8	13
5473	Hierarchically Nanostructured Transition Metal Oxides for Lithiumâ€ion Batteries. Advanced Science, 2018, 5, 1700592.	5.6	440
5474	Highly ordered 1D NiCo2O4 nanorods on graphene: An efficient dual-functional hybrid materials for electrochemical energy conversion and storage applications. Electrochimica Acta, 2018, 263, 147-157.	2.6	57
5475	Enhanced supercapacitor performance using molecular self-assembling polyaniline onto carbon nanoparticles. Journal of Electroanalytical Chemistry, 2018, 810, 145-153.	1.9	12

#	Article	IF	Citations
5476	Layered oxides-LiNi1/3Co1/3Mn1/3O2 as anode electrode for symmetric rechargeable lithium-ion batteries. Journal of Power Sources, 2018, 378, 516-521.	4.0	24
5477	Electropolishing valve metals with a sulfuric acid-methanol electrolyte at low temperature. Surface and Coatings Technology, 2018, 347, 150-156.	2.2	17
5478	A New Porous Polymer for Highly Efficient Capacitive Energy Storage. ACS Sustainable Chemistry and Engineering, 2018, 6, 202-209.	3.2	78
5479	Oxygen-doped carbon host with enhanced bonding and electron attraction abilities for efficient and stable SnO2/carbon composite battery anode. Science China Materials, 2018, 61, 1067-1077.	3.5	12
5480	Recent advances in nanoporous materials for renewable energy resources conversion into fuels. Surface and Coatings Technology, 2018, 347, 320-336.	2.2	29
5481	Piperidinium ionic liquids as electrolyte solvents for sustained high temperature supercapacitor operation. Chemical Communications, 2018, 54, 5590-5593.	2.2	43
5482	3D hierarchical defect-rich NiMo3S4 nanosheet arrays grown on carbon textiles for high-performance sodium-ion batteries and hydrogen evolution reaction. Nano Energy, 2018, 49, 460-470.	8.2	107
5483	A mini review: Functional nanostructuring with perfectly-ordered anodic aluminum oxide template for energy conversion and storage. Frontiers of Chemical Science and Engineering, 2018, 12, 481-493.	2.3	39
5484	Structural modulation and band gap optimisation of electrochemically anodised TiO2 nanotubes. Materials Science in Semiconductor Processing, 2018, 83, 150-158.	1.9	27
5485	Gradiently Polymerized Solid Electrolyte Meets with Micro-/Nanostructured Cathode Array. ACS Applied Materials & Interfaces, 2018, 10, 18005-18011.	4.0	23
5486	In-situ visualization of solute-driven phase coexistence within individual nanorods. Nature Communications, 2018, 9, 1775.	5.8	19
5487	Synthesis and Application of Phosphorus/Co₃O₄â€“CuO Hybrid as High-Performance Anode Materials for Lithium-Ion Batteries. ACS Omega, 2018, 3, 4620-4630.	1.6	12
5488	Effect of lithium-site doping on enhancing the lithium storage performance of SrLi2Ti6O14. Electrochimica Acta, 2018, 265, 437-447.	2.6	4
5489	An acid-pasting strategy towards PTCDA based high performance lithium/sodium ion battery cathodes. Electrochimica Acta, 2018, 276, 207-213.	2.6	27
5490	Recent advances in chitin based materials constructed via physical methods. Progress in Polymer Science, 2018, 82, 1-33.	11.8	276
5491	Oscillations in an array of bistable microelectrodes coupled through a globally conserved quantity. Chaos, 2018, 28, 045113.	1.0	12
5492	Selfâ€Healing Protonâ€Exchange Membranes Composed of Nafionâ€“Poly(vinyl alcohol) Complexes for Durable Direct Methanol Fuel Cells. Advanced Materials, 2018, 30, e1707146.	11.1	116
5493	Î±-MoO3- by plasma etching with improved capacity and stabilized structure for lithium storage. Nano Energy, 2018, 49, 555-563.	8.2	133

#	Article	IF	Citations
5494	Effect of discrete number of velocity directions of phonon on thermal conductivity prediction in the cross-plane direction of superlattices. Computational Materials Science, 2018, 150, 358-363.	1.4	0
5495	Self-standing gel polymer electrolyte for improving supercapacitor thermal and electrochemical stability. Journal of Power Sources, 2018, 391, 86-93.	4.0	27
5496	Lotus-Leaf-Derived Activated-Carbon-Supported Nano-CdS as Energy-Efficient Photocatalysts under Visible Irradiation. ACS Sustainable Chemistry and Engineering, 2018, 6, 7871-7879.	3.2	81
5497	Vertically Oriented MoS₂ with Spatially Controlled Geometry on Nitrogenous Graphene Sheets for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1703300.	10.2	144
5498	Highly dispersed and COad-tolerant Ptshell-Pdcore catalyst for ethanol oxidation reaction: Catalytic activity and long-term durability. International Journal of Hydrogen Energy, 2018, 43, 11335-11344.	3.8	6
5499	Solid-phase synthesis and electrochemical pseudo-capacitance of nitrogen-atom interstitial compound Co₃N. Sustainable Energy and Fuels, 2018, 2, 1178-1188.	2.5	22
5500	Shape-controlled synthesis of CoMoO4@Co1.5Ni1.5S4 hybrids with rambutan-like structure for high-performance all-solid-state supercapacitors. Chemical Engineering Journal, 2018, 346, 193-202.	6.6	39
5501	Kinetically controlled assembly of cadmium chalcogenide nanorods and nanorod heterostructures. Materials Chemistry Frontiers, 2018, 2, 1296-1305.	3.2	12
5502	CNTs@Î³-Fe2O3@C composite electrode for high capacity lithium ion storage. International Journal of Hydrogen Energy, 2018, 43, 14027-14033.	3.8	20
5503	Modified mixed chromatography method for separation of single-walled carbon nanotubes based on diameter and conductivity. Materials Letters, 2018, 222, 113-117.	1.3	0
5504	High-performance flexible triboelectric nanogenerator based on porous aerogels and electrospun nanofibers for energy harvesting and sensitive self-powered sensing. Nano Energy, 2018, 48, 327-336.	8.2	205
5505	3D yolkâ€“shell Si@void@CNF nanostructured electrodes with improved electrochemical performance for lithium-ion batteries. Journal of Industrial and Engineering Chemistry, 2018, 64, 344-351.	2.9	23
5506	Green synthesis of nanocrystalline Î±-Al₂O₃ powders by both wet-chemical and mechanochemical methods. Modern Physics Letters B, 2018, 32, 1850109.	1.0	5
5507	Facile synthesis of porous LiMn2O4 micro-/nano-hollow spheres with extremely excellent cycle stability as cathode of lithium-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 2617-2622.	1.2	15
5508	Engineered Si@alginate microcapsule-graphite composite electrode for next generation high-performance lithium-ion batteries. Electrochimica Acta, 2018, 270, 480-489.	2.6	24
5509	A Highly Efficient Multi-phase Catalyst Dramatically Enhances the Rate of Oxygen Reduction. Joule, 2018, 2, 938-949.	11.7	221
5510	Opening Magnesium Storage Capability of Two-Dimensional MXene by Intercalation of Cationic Surfactant. ACS Nano, 2018, 12, 3733-3740.	7.3	208
5511	Electrochemical Impedance Imaging via the Distribution of Diffusion Times. Physical Review Letters, 2018, 120, 116001.	2.9	71

#	Article	IF	Citations
5512	A Review on the Features and Progress of Dualâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1703320.	10.2	281
5513	Organic vanadium oxy-acetylacetonate as electro-active anode material with high capacity and rate performance for lithium-ion batteries. Journal of Materials Science, 2018, 53, 9701-9709.	1.7	3
5514	Emerging chemical strategies for imprinting magnetism in graphene and related 2D materials for spintronic and biomedical applications. Chemical Society Reviews, 2018, 47, 3899-3990.	18.7	161
5515	Heteroatom-doped carbonaceous electrode materials for high performance energy storage devices. Sustainable Energy and Fuels, 2018, 2, 1398-1429.	2.5	59
5516	All nanocarbon Li-Ion capacitor with high energy and high power density. Materials Today Energy, 2018, 8, 109-117.	2.5	52
5517	Synergetic enhancement of the electronic/ionic conductivity of a Li-ion battery by fabrication of a carbon-coated nanoporous SnOxSb alloy anode. Nanoscale, 2018, 10, 7605-7611.	2.8	9
5518	Tailoring of Morphology and Crystalline Structure of Nanoporous TiO₂â€“TiOâ€“TiN Composite Films for Enhanced Capacity as Anode Materials of Lithium-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A477-A486.	1.3	10
5519	High-performance Mg-ion conducting poly(vinyl alcohol) membranes: Preparation, characterization and application in supercapacitors. Journal of Membrane Science, 2018, 555, 280-289.	4.1	17
5520	Thermal Lithiated-TiO₂: A Robust and Electron-Conducting Protection Layer for Liâ€“Si Alloy Anode. ACS Applied Materials & Interfaces, 2018, 10, 12750-12758.	4.0	45
5521	Shape-controlled electrodeposition of single Pt nanocrystals onto carbon nanoelectrodes. Faraday Discussions, 2018, 210, 267-280.	1.6	13
5522	Anhydrous Liquid-Phase Exfoliation of Pristine Electrochemically Active GeS Nanosheets. Chemistry of Materials, 2018, 30, 2245-2250.	3.2	41
5523	Hierarchical porous carbon materials from nanosized metal-organic complex for high-performance symmetrical supercapacitor. Electrochimica Acta, 2018, 269, 580-589.	2.6	47
5524	Nanocellulose: a promising nanomaterial for advanced electrochemical energy storage. Chemical Society Reviews, 2018, 47, 2837-2872.	18.7	586
5525	A polypyrrole hollow nanosphere with ultra-thin wrinkled shell: Synergistic trapping of sulfur in Lithium-Sulfur batteries with excellent elasticity and buffer capability. Electrochimica Acta, 2018, 271, 67-76.	2.6	36
5526	A rational microstructure design of SnS2â€“carbon composites for superior sodium storage performance. Nanoscale, 2018, 10, 7999-8008.	2.8	35
5527	Ultrafast synthesis of amorphous VO_xembedded into 3D strutted amorphous carbon frameworksâ€“short-range order in dual-amorphous composites boosts lithium storage. Journal of Materials Chemistry A, 2018, 6, 7053-7061.	5.2	13
5528	Oxygen vacancies on the surface of H_xWO_{3â^'y} for enhanced charge storage. Journal of Materials Chemistry A, 2018, 6, 6780-6784.	5.2	36
5529	Stretchable V₂O₅/PEDOT supercapacitors: a modular fabrication process and charging with triboelectric nanogenerators. Nanoscale, 2018, 10, 7719-7725.	2.8	26

#	Article	IF	Citations
5530	Self-Assembled Peptide Hydrogel With Porphyrin as a Dopant for Enhanced Photocurrent Generation. Colloids and Interface Science Communications, 2018, 23, 29-33.	2.0	16
5531	Formation of bimetallic metalâ€“organic framework nanosheets and their derived porous nickelâ€“cobalt sulfides for supercapacitors. Dalton Transactions, 2018, 47, 5639-5645.	1.6	127
5532	Rational design of binder-free ZnCo2O4 and Fe2O3 decorated porous 3D Ni as high-performance electrodes for asymmetric supercapacitor. Ceramics International, 2018, 44, 10635-10645.	2.3	31
5533	Lithium adsorption and migration in group IVâ€“VI compounds and GeS/graphene heterostructures: a comparative study. Physical Chemistry Chemical Physics, 2018, 20, 9865-9871.	1.3	14
5534	Impact of CTAB on morphology and electrochemical performance of MoS2 nanoflowers with improved lithium storage properties. Journal of Materials Science: Materials in Electronics, 2018, 29, 3631-3639.	1.1	13
5535	Self-assembled 3D N-CNFs/V2O5 aerogels with core/shell nanostructures through vacancies control and seeds growth as an outstanding supercapacitor electrode material. Carbon, 2018, 132, 667-677.	5.4	68
5536	Recent advances in the synthesis and modification of carbon-based 2D materials for application in energy conversion and storage. Progress in Energy and Combustion Science, 2018, 67, 115-157.	15.8	271
5537	Anisotropic and Multicomponent Nanostructures by Controlled Symmetry Breaking of Metal Halide Intermediates. Nano Letters, 2018, 18, 2324-2328.	4.5	4
5538	A New Anode for Lithiumâ€ion Batteries Based on Singleâ€Walled Carbon Nanotubes and Graphene: Improved Performance through a Binary Network Design. Chemistry - an Asian Journal, 2018, 13, 1223-1227.	1.7	13
5539	Hierarchical bicomponent TiO2 hollow spheres as a new high-capacity anode material for lithium-ion batteries. Journal of Materials Science, 2018, 53, 8499-8509.	1.7	11
5540	Ultrathin W9Nb8O47 nanofibers modified with thermal NH3 for superior electrochemical energy storage. Energy Storage Materials, 2018, 14, 159-168.	9.5	55
5541	Enhancing the Charge Storage Capacity of Lithium-Ion Capacitors Using Nitrogen-Doped Reduced Graphene Oxide Aerogel as a Negative Electrode: A Hydrodynamic Rotating Disk Electrode Investigation. Journal of the Electrochemical Society, 2018, 165, A609-A617.	1.3	27
5542	Sulfur/Oxygen Codoped Porous Hard Carbon Microspheres for Highâ€Performance Potassiumâ€ion Batteries. Advanced Energy Materials, 2018, 8, 1800171.	10.2	363
5543	Facile and efficient room temperature solid state reaction enabled synthesis of antimony nanoparticles embedded within reduced graphene oxide for enhanced sodium-ion storage. Applied Surface Science, 2018, 444, 448-456.	3.1	15
5544	Crosslinked carboxymethyl cellulose-sodium borate hybrid binder for advanced silicon anodes in lithium-ion batteries. Chinese Chemical Letters, 2018, 29, 1773-1776.	4.8	38
5545	Polymer-chelation synthesis of compositionally homogeneous LiNi1/3Co1/3Mn1/3O2 crystals for lithium-ion cathode. Electrochimica Acta, 2018, 269, 724-732.	2.6	18
5546	Touching the theoretical capacity: synthesizing cubic LiTi₂(PO₄)₃/C nanocomposites for high-performance lithium-ion battery. Nanoscale, 2018, 10, 6282-6287.	2.8	11
5547	Application of Li₂S to compensate for loss of active lithium in a Siâ€“C anode. Journal of Materials Chemistry A, 2018, 6, 6206-6211.	5.2	37

#	Article	IF	Citations
5548	The effects of MgO nanofiller to the physicochemical and ionic liquid retention properties of PEMAâ€MgTf2â€EMITFSI nanocomposite polymer electrolytes. Polymer Composites, 2018, 39, 1500-1506.	2.3	10
5549	Recent Developments in Oxide-Based Ionic Conductors: Bulk Materials, Nanoionics, and Their Memory Applications. Critical Reviews in Solid State and Materials Sciences, 2018, 43, 47-82.	6.8	20
5550	MnO quantum dots embedded in carbon nanotubes as excellent anode for lithium-ion batteries. Energy Storage Materials, 2018, 10, 160-167.	9.5	39
5551	Three-dimensional nanoporous Cu6Sn5/Cu composite from dealloying as anode for lithium ion batteries. Microporous and Mesoporous Materials, 2018, 261, 237-243.	2.2	46
5552	Electrochemical cycling effect on structural parameters and electron density ofLi1â^'xNi0.5Mn1.5O4using synchrotron Xâ€“ray analyses. Physica B: Condensed Matter, 2018, 532, 64-70.	1.3	5
5553	Metal-organic framework-derived, Zn-doped porous carbon polyhedra with enhanced activity as bifunctional catalysts for rechargeable zinc-air batteries. Nano Research, 2018, 11, 163-173.	5.8	105
5554	In situ construction of porous NiCo2O4/Ni foam electrodes for high-performance energy storage applications. Journal of Porous Materials, 2018, 25, 565-570.	1.3	5
5555	Hand-drawing patterned ultra-thin integrated electrodes for flexible micro supercapacitors. Energy Storage Materials, 2018, 11, 144-151.	9.5	43
5556	3D open-worked inverse opal TiO2 and GeO2 materials for long life, high capacity Li-ion battery anodes. Solid State Ionics, 2018, 314, 195-203.	1.3	21
5557	NiCo2O4 with oxygen vacancies as better performance electrode material for supercapacitor. Chemical Engineering Journal, 2018, 334, 864-872.	6.6	217
5558	CoFe₂O₄ nanoparticles as efficient bifunctional catalysts applied in Znâ€“air battery. Journal of Materials Research, 2018, 33, 590-600.	1.2	18
5559	Enhanced photovoltaic performance using biomass derived nano 3D ZnO hierarchical superstructures and a Dâ^'A type CS-Symmetric triphenylamine linked bisthiazole. Electrochimica Acta, 2018, 259, 262-275.	2.6	10
5560	Sn-MOF derived bimodal-distributed SnO2 nanosphere as a high performance anode of sodium ion batteries with high gravimetric and volumetric capacities. Materials Research Bulletin, 2018, 99, 45-51.	2.7	57
5561	Binderâ€Free Hybrid Titaniumâ€“Niobium Oxide/Carbon Nanofiber Mats for Lithiumâ€Ion Battery Electrodes. ChemSusChem, 2018, 11, 159-170.	3.6	30
5562	Electrospun mulberry-like hierarchical carbon fiber web for high-performance supercapacitors. Journal of Colloid and Interface Science, 2018, 512, 713-721.	5.0	33
5563	Fabrication and Engineering of Nanostructured Supercapacitor Electrodes Using Electromagnetic Fieldâ€Based Techniques. Advanced Materials Technologies, 2018, 3, 1700168.	3.0	12
5564	Recent Applications of 2D Inorganic Nanosheets for Emerging Energy Storage System. Chemistry - A European Journal, 2018, 24, 4757-4773.	1.7	52
5565	CoFe2O4 nanoparticles decorated carbon nanotubes: Air-cathode bifunctional catalysts for rechargeable zinc-air batteries. Catalysis Today, 2018, 318, 144-149.	2.2	57

#	Article	IF	Citations
5566	Revitalized interest in vanadium pentoxide as cathode material for lithium-ion batteries and beyond. Energy Storage Materials, 2018, 11, 205-259.	9.5	221
5567	Recent progress on exploring exceptionally high and anisotropic H⁺/OH^{â˜} ion conduction in two-dimensional materials. Chemical Science, 2018, 9, 33-43.	3.7	44
5568	Concentration-dependent behaviors of ZnO-reinforced PVAâ€“ZnO nanocomposites as electron transport materials for OLED application. Polymer Bulletin, 2018, 75, 3089-3107.	1.7	49
5569	Metal (M = Co, Ni) phosphate based materials for high-performance supercapacitors. Inorganic Chemistry Frontiers, 2018, 5, 11-28.	3.0	169
5570	Nano Transition Metal Alloy Functionalized Lithium Manganese Oxide Cathodes-System for Enhanced Lithium-Ion Battery Power Densities. , 2018, , 201-220.		1
5571	Li₄Ti₅O₁₂ Anode: Structural Design from Material to Electrode and the Construction of Energy Storage Devices. Chemical Record, 2018, 18, 350-380.	2.9	31
5572	Band gap manipulation and physical properties of preferred orientation CuO thin films with nano wheatear array. Ceramics International, 2018, 44, 1134-1141.	2.3	19
5573	Synthesis of hierarchical mesoporous lithium nickel cobalt manganese oxide spheres with high rate capability for lithium-ion batteries. Applied Surface Science, 2018, 428, 1036-1045.	3.1	15
5574	Semiconducting metal oxides for gas sensor applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 357-364.	1.1	7
5575	Effect of carbon precursor on electrochemical performance of LiFePO4-C nano composite synthesized by ultrasonic spray pyrolysis as cathode active material for Li ion battery. Materials Chemistry and Physics, 2018, 203, 319-332.	2.0	15
5576	Perovskite LaNiO3-Î´ oxide as an anion-intercalated pseudocapacitor electrode. Journal of Alloys and Compounds, 2018, 731, 381-388.	2.8	90
5577	Scalable synthesis of sub-100 nm hollow carbon nanospheres for energy storage applications. Nano Research, 2018, 11, 1822-1833.	5.8	29
5578	Advanced chemical strategies for lithiumâ€“sulfur batteries: A review. Green Energy and Environment, 2018, 3, 2-19.	4.7	164
5579	Interdigitated crystalline <scp>MMTâ€MCA</scp>: Preparation and characterization. Polymers for Advanced Technologies, 2018, 29, 22-29.	1.6	9
5580	Optimal concentration of electrolyte additive for cyclic stability improvement of high-voltage cathode of lithium-ion battery. Ionics, 2018, 24, 661-670.	1.2	10
5581	Mixed Metal Sulfides for Electrochemical Energy Storage and Conversion. Advanced Energy Materials, 2018, 8, 1701592.	10.2	647
5582	Investigation of polybenzoxazine gelation using laser light scattering. Journal of Applied Polymer Science, 2018, 135, 45709.	1.3	6
5583	Superelastic air-bubbled graphene foam monoliths as structural buffer for compressible high-capacity anode materials in lithium-ion batteries. Chemical Engineering Journal, 2018, 331, 704-711.	6.6	10

#	Article	IF	Citations
5584	A novel cobalt hexacyanoferrate/multi-walled carbon nanotubes nanocomposite: Spontaneous assembly synthesis and application as electrode materials with significantly improved capacitance for supercapacitors. Electrochimica Acta, 2018, 259, 793-802.	2.6	55
5585	Construction of Complex Co₃O₄@Co₃V₂O₈ Hollow Structures from Metalâ€“Organic Frameworks with Enhanced Lithium Storage Properties. Advanced Materials, 2018, 30, 1702875.	11.1	262
5586	Theoretical design of high-performance polymer-based magnetoelectric of fibrilar structures. Composites Science and Technology, 2018, 155, 126-136.	3.8	10
5587	Ultra-long life of TiO2 nanotube array microelectrode for Li-ion microbatteries. Ionics, 2018, 24, 2227-2232.	1.2	1
5588	Oxygen partial pressure effects on the RF sputtered p-type NiO hydrogen gas sensors. Applied Surface Science, 2018, 435, 880-885.	3.1	72
5589	Ternary composite based on homogeneous Ni(OH)2 on graphene with Ag nanoparticles as nanospacers for efficient supercapacitor. Chemical Engineering Journal, 2018, 334, 2058-2067.	6.6	61
5590	Mesoporous Iron Oxide Synthesized Using Poly(styrene-b-acrylic acid-b-ethylene glycol) Block Copolymer Micelles as Templates for Colorimetric and Electrochemical Detection of Glucose. ACS Applied Materials & Interfaces, 2018, 10, 1039-1049.	4.0	90
5591	Toward Wearable Selfâ€Charging Power Systems: The Integration of Energyâ€Harvesting and Storage Devices. Small, 2018, 14, 1702817.	5.2	274
5592	Polyanthraquinone/CNT nanocomposites as cathodes for rechargeable lithium ion batteries. Materials Letters, 2018, 214, 107-110.	1.3	15
5593	Ag-Doped PEDOT:PSS/CNT composites for thin-film all-solid-state supercapacitors with a stretchability of 480%. Journal of Materials Chemistry A, 2018, 6, 941-947.	5.2	107
5594	General Strategy for Synthesis of Pd₃M (M = Co and Ni) Nanoassemblies as Highâ€Performance Catalysts for Electrochemical Oxygen Reduction. Advanced Materials Interfaces, 2018, 5, 1701015.	1.9	30
5595	Belt-like nickel hydroxide carbonate/reduced graphene oxide hybrids: Synthesis and performance as supercapacitor electrodes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 748-756.	2.3	27
5596	Two-dimensional nanosheets as building blocks to construct three-dimensional structures for lithium storage. Journal of Energy Chemistry, 2018, 27, 128-145.	7.1	23
5597	Nanocomposite Capacitors with Significantly Enhanced Energy Density and Breakdown Strength Utilizing a Small Loading of Monolayer Titania. Advanced Materials Interfaces, 2018, 5, 1701088.	1.9	49
5598	3-Dimensional MWCNT/CuO nanostructures use as an electrochemical catalyst for oxygen evolution reaction. Journal of Alloys and Compounds, 2018, 735, 2311-2317.	2.8	27
5599	FUNDAMENTALS OF RECHARGEABLE BATTERIES AND ELECTROCHEMICAL POTENTIALS OF ELECTRODE MATERIALS. , 2018, , 397-451.		3
5600	REVITALIZED INTEREST IN VANADIUM PENTOXIDE AS CATHODE MATERIAL FOR ALKALI-ION BATTERIES. , 2018, , 453-580.		0
5601	Strong interplay between dopant and SnO2 in amorphous transparent (Sn, Nb)O2 anode with high conductivity in electrochemical cycling. Journal of Alloys and Compounds, 2018, 735, 2401-2409.	2.8	28

#	Article	IF	Citations
5602	Synergetic effects of Fe³⁺ doped spinel Li₄Ti₅O₁₂ nanoparticles on reduced graphene oxide for high surface electrode hybrid supercapacitors. Nanoscale, 2018, 10, 1877-1884.	2.8	163
5603	Hierarchical hybrid ZnFe2O4 nanoparticles/reduced graphene oxide composite with long-term and high-rate performance for lithium ion batteries. Journal of Alloys and Compounds, 2018, 737, 58-66.	2.8	33
5604	Rapid and facile synthesis of hierarchically mesoporous TiO₂â€“B with enhanced reversible capacity and rate capability. Journal of Materials Chemistry A, 2018, 6, 1196-1200.	5.2	34
5605	Morphologically tailored activated carbon derived from waste tires as high-performance anode for Li-ion battery. Journal of Applied Electrochemistry, 2018, 48, 1-13.	1.5	55
5606	Tailoring biomass-derived carbon for high-performance supercapacitors from controllably cultivated algae microspheres. Journal of Materials Chemistry A, 2018, 6, 1523-1530.	5.2	104
5607	A synergistic â€œcascadeâ€•effect in copper zinc tin sulfide nanowalls for highly stable and efficient lithium ion storage. Nano Energy, 2018, 44, 438-446.	8.2	24
5608	Self-formation of polymer nanostructures in plasma etching: mechanisms and applications. Journal of Micromechanics and Microengineering, 2018, 28, 014006.	1.5	14
5609	Novel nanosheets of ferrite nanoparticle arrays in carbon matrix from single source precursors: an anode material for lithium-ion batteries. Journal of Materials Science, 2018, 53, 4456-4466.	1.7	13
5610	NiFe LDH-CoPc/CNTs as novel bifunctional electrocatalyst complex for zincâ€“air battery. Ionics, 2018, 24, 1709-1714.	1.2	25
5611	Holey 2D Nanomaterials for Electrochemical Energy Storage. Advanced Energy Materials, 2018, 8, 1702179.	10.2	293
5612	An Asymmetricâ€Electrolyte Znâ^'Air Battery with Ultrahigh Power Density and Energy Density. ChemElectroChem, 2018, 5, 589-592.	1.7	50
5613	LaF3 nanolayer surface modified spinel LiNi0.5Mn1.5O4 cathode material for advanced lithium-ion batteries. Ceramics International, 2018, 44, 4058-4066.	2.3	50
5614	Honey mediated green synthesis of graphene based NiO2/Cu2O nanocomposite (Gr@NiO2/Cu2O NCs): Catalyst for the synthesis of functionalized Schiff-base derivatives. Journal of Alloys and Compounds, 2018, 738, 56-71.	2.8	20
5615	Hollow carbon microtubes from kapok fiber: structural evolution and energy storage performance. Sustainable Energy and Fuels, 2018, 2, 455-465.	2.5	63
5616	Encapsulating nanoparticulate Sb/MoOx into porous carbon nanofibers via electrospinning for efficient lithium storage. Chemical Engineering Journal, 2018, 336, 701-709.	6.6	50
5617	Recent progress in 2D materials for flexible supercapacitors. Journal of Energy Chemistry, 2018, 27, 57-72.	7.1	179
5618	Sol-gel synthesized carbon-coated vanadium borate as anode material for rechargeable Li and Na batteries. Journal of Alloys and Compounds, 2018, 732, 506-510.	2.8	18
5619	Effect of silica coating on luminescence and temperature sensing properties of Nd3+ doped nanoparticles. Journal of Alloys and Compounds, 2018, 734, 136-143.	2.8	23

#	Article	IF	Citations
5620	Behavior of Lithium Metal Anodes under Various Capacity Utilization and High Current Density in Lithium Metal Batteries. Joule, 2018, 2, 110-124.	11.7	280
5621	Flexible, Stretchable, and Transparent Planar Microsupercapacitors Based on 3D Porous Laserâ€Induced Graphene. Small, 2018, 14, 1702249.	5.2	179
5622	Two-dimensional organic cathode materials for alkali-metal-ion batteries. Journal of Energy Chemistry, 2018, 27, 86-98.	7.1	56
5623	Electrochemical properties of Li3V2(PO4)3/C cathode materials synthesized via ethylene glycol-assisted solvothermal method. Ionics, 2018, 24, 1277-1283.	1.2	0
5624	Synthesis of dual porous structured germanium anodes with exceptional lithium-ion storage performance. Journal of Power Sources, 2018, 374, 217-224.	4.0	33
5625	Biphase Cobaltâ€“Manganese Oxide with High Capacity and Rate Performance for Aqueous Sodiumâ€Ion Electrochemical Energy Storage. Advanced Functional Materials, 2018, 28, 1703266.	7.8	25
5626	Design and Performance of Rechargeable Sodium Ion Batteries, and Symmetrical Liâ€Ion Batteries with Supercapacitorâ€Like Power Density Based upon Polyoxovanadates. Advanced Energy Materials, 2018, 8, 1701021.	10.2	58
5627	Defects and Interfaces on PtPb Nanoplates Boost Fuel Cell Electrocatalysis. Small, 2018, 14, 1702259.	5.2	84
5628	Constructing hâ€BN/Bi₂WO₆ Quantum Dot Hybrid with Fast Charge Separation and Enhanced Photoelectrochemical Performance by using hâ€BN for Hole Transfer. ChemElectroChem, 2018, 5, 300-308.	1.7	21
5629	Fabrication of Î²-Ni(OH)2Ââ^¥ÂÎ³-Fe2O3 nanostructures for high-performance asymmetric supercapacitors. Journal of Solid State Electrochemistry, 2018, 22, 293-302.	1.2	8
5630	Advanced Energy Storage Devices: Basic Principles, Analytical Methods, and Rational Materials Design. Advanced Science, 2018, 5, 1700322.	5.6	1,043
5631	Scalable and general synthesis of spinel manganese-based cathodes with hierarchical yolkâ€“shell structure and superior lithium storage properties. Nano Research, 2018, 11, 246-253.	5.8	14
5632	In2O3 nanocrystalâ€“Ï€ conjugated molecule hybrid materials for high-capacity anode in lithium ion battery. Journal of Industrial and Engineering Chemistry, 2018, 57, 22-27.	2.9	8
5633	The role of reduced graphene oxide on the electrochemical activity of MFe2O4 (M = Fe, Co, Ni and Zn) nanohybrids. Journal of Magnetism and Magnetic Materials, 2018, 448, 43-51.	1.0	9
5634	Study of the Electrochemical Performance of Activated Carbon Bulky Paper Electrode for Electrical Double Layer Capacitor (EDLC). IOP Conference Series: Materials Science and Engineering, 2018, 436, 012015.	0.3	0
5635	Co3-xMnxO4 as a High Capacity Anode Material for Lithium Ion Batteries. , 2018, , .		0
5636	Investigation of the deposition of metal nanoclusters on the hidden surface of porous electrode materials by electrophoresis. IOP Conference Series: Materials Science and Engineering, 2018, 387, 012073.	0.3	1
5637	Electrophoretic Deposition of Metal Nanoclusters at the Surface of Porous Materials. Russian Engineering Research, 2018, 38, 989-991.	0.2	2

#	Article	IF	Citations
5638	Li1.1V0.9O2/C Microspheres with Isomeric Coreâ€Shell structure and their Improved Lithium Storage Performance for Lithiumâ€Ion Batteries. ChemElectroChem, 2018, 5, 3708-3716.	1.7	2
5639	New Synthesis of Polycrystalline NiSe Nanoarrays on Ni Foam as the Electrode for High Performance Supercapacitors. International Journal of Electrochemical Science, 2018, 13, 12437-12449.	0.5	6
5640	Rate-dependent Reversal of Lithium Concentration During Intercalation into LixFePO4 Nanoparticles. Microscopy and Microanalysis, 2018, 24, 1482-1483.	0.2	0
5642	Catalytic Oxidation of Benzyl Alcohol Using Nanosized Cu/Ni Schiff-Base Complexes and Their Metal Oxide Nanoparticles. Catalysts, 2018, 8, 452.	1.6	56
5643	In situ combined analysis of gases and electrochemical signals of an activated carbon-based supercapacitor at 2.7â€“4 V. RSC Advances, 2018, 8, 32188-32192.	1.7	5
5644	Dendritic nanostructured FeS₂-based high stability and capacity Li-ion cathodes. RSC Advances, 2018, 8, 38745-38750.	1.7	2
5645	Porous Si@C ball-in-ball hollow spheres for lithium-ion capacitors with improved energy and power densities. Journal of Materials Chemistry A, 2018, 6, 21098-21103.	5.2	52
5646	Facile synthesis of Ni₁₁(HPO₃)₈(OH)₆/rGO nanorods with enhanced electrochemical performance for aluminum-ion batteries. Nanoscale, 2018, 10, 21284-21291.	2.8	34
5647	The controllable growth of superhydrophobic SiC nanowires by tailoring the cooling rate. CrystEngComm, 2018, 20, 7706-7712.	1.3	2
5648	High performance of porous silicon/carbon/RGO network derived from rice husks as anodes for lithium-ion batteries. New Journal of Chemistry, 2018, 42, 19811-19817.	1.4	27
5649	Tailoring porous carbon spheres for supercapacitors. Nanoscale, 2018, 10, 21604-21616.	2.8	101
5651	High-performance all-solid-state lithiumâ€“sulfur batteries with sulfur/carbon nano-hybrids in a composite cathode. Journal of Materials Chemistry A, 2018, 6, 23345-23356.	5.2	48
5652	Probing enhanced lithium-ion transport kinetics in 2D holey nanoarchitectured electrodes. Nano Futures, 2018, 2, 035008.	1.0	15
5653	Ethanol Gas Sensor Based on Î³ -Fe 2 O 3 Nanoparticles Working at Room Temperature with High Sensitivity. Chinese Journal of Analytical Chemistry, 2018, 46, e1854-e1862.	0.9	23
5654	Li2NiTiO4: A New Insertion type Pseudocapacitive Electrode for Aqueous Lithium-Ion Capacitors. Materials Today: Proceedings, 2018, 5, 23339-23345.	0.9	2
5655	Polyaniline/Nickel Oxideâ€“a Core/Shell Structured Nanocomposite as Electrode Material in Supercapacitor Applications. Materials Today: Proceedings, 2018, 5, 23148-23155.	0.9	6
5656	Semiconducting Electrospun Nanofibers for Energy Conversion. , 2018, , .		0
5657	Enhancing Pseudocapacitive Process for Energy Storage Devices: Analyzing the Charge Transport Using Electro-kinetic Study and Numerical Modeling. , 0, , .		7

#	Article	IF	Citations
5658	Thin Film RuO₂ Lithiation: Fast Lithiumâ€Ion Diffusion along the Interface. Advanced Functional Materials, 2018, 28, 1805723.	7.8	11
5659	Engineering Titanium Dioxide Nanostructures for Enhanced Lithium-Ion Storage. Journal of the American Chemical Society, 2018, 140, 16676-16684.	6.6	85
5660	Development of the PEO Based Solid Polymer Electrolytes for All-Solid State Lithium Ion Batteries. Polymers, 2018, 10, 1237.	2.0	167
5661	Nanoporous (Pt1-Co)3Al intermetallic compound as a high-performance catalyst for oxygen reduction reaction. International Journal of Hydrogen Energy, 2018, 43, 19947-19954.	3.8	11
5662	Organic Matrix Stabilized Ultraâ€Fine Bismuth Oxide Particles for Electrochemical Energy Storage Application. ChemistrySelect, 2018, 3, 12057-12064.	0.7	10
5663	Zero Charge Potentials and Electrical Double Layer at Solid Electrodes. , 2018, , 316-344.		10
5664	Coaxial Triboelectric Nanogenerator and Supercapacitor Fiber-Based Self-Charging Power Fabric. ACS Applied Materials & Interfaces, 2018, 10, 42356-42362.	4.0	108
5665	Comparative study of catalytic activities among transition metal-doped IrO2 nanoparticles. Scientific Reports, 2018, 8, 16777.	1.6	36
5666	Biosynthesis of Nanomaterials by Shewanella Species for Application in Lithium Ion Batteries. Frontiers in Microbiology, 2018, 9, 2817.	1.5	23
5667	Freezing of Gelled Suspensions: a Facile Route toward Mesoporous TiO2 Particles for High-Capacity Lithium-Ion Electrodes. ACS Applied Nano Materials, 2018, 1, 6622-6629.	2.4	5
5668	Synthesis, Characterization and Electrochemical Properties of Î±-MnO2 Nanowires as Electrode Material for Supercapacitors. International Journal of Electrochemical Science, 2018, 13, 6426-6435.	0.5	29
5669	Room-temperature Facile Synthesis of Co3O4 Nanoflakes as Anode Material for Li-ion Rechargeable Batteries. International Journal of Electrochemical Science, 2018, 13, 2069-2079.	0.5	2
5670	Molten Salt Synthesis of Disordered Spinel LiNi0.5Mn1.5O4 with Improved Electrochemical Performance for Li-ion Batteries. International Journal of Electrochemical Science, 2018, 13, 10113-10126.	0.5	5
5671	Cohesive energy calculation of quaternary Ge-Te-Se-Ga chalcogenide glasses using chemical bond approach. AIP Conference Proceedings, 2018, , .	0.3	3
5672	ZnO@Niâ€“Coâ€“S Coreâ€“Shell Nanorods-Decorated Carbon Fibers as Advanced Electrodes for High-Performance Supercapacitors. Nano, 2018, 13, 1850148.	0.5	6
5673	Proton Conductions. Polymers and Polymeric Composites, 2018, , 1-34.	0.6	0
5674	High-density sodium vanadate nanowires on substrate coated with polypyrrole for lithium-ion battery. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 238-239, 26-35.	1.7	10
5675	Ultrasmall MoO_x Clusters as a Novel Cocatalyst for Photocatalytic Hydrogen Evolution. Advanced Materials, 2019, 31, e1804883.	11.1	222

#	Article	IF	Citations
5676	Surfactant assisted sonochemical synthesis of zinc tungstate nanoparticles: Anode for Li-ion battery and photocatalytic activities. European Physical Journal Plus, 2018, 133, 1.	1.2	13
5677	3D structure of the electric double layer of ionic liquidâ€“alcohol mixtures at the electrochemical interface. Physical Chemistry Chemical Physics, 2018, 20, 30412-30427.	1.3	20
5678	Separator Membranes for High Energyâ€Ðensity Batteries. ChemBioEng Reviews, 2018, 5, 346-371.	2.6	29
5679	Improved Models for Metallic Nanoparticle Cores from Atomic Pair Distribution Function (PDF) Analysis. Journal of Physical Chemistry C, 2018, 122, 29498-29506.	1.5	41
5680	Supercapacitive Properties of Microporeâ€•and Mesoporeâ€Rich Activated Carbon in Ionicâ€Liquid Electrolytes with Various Constituent Ions. ChemSusChem, 2019, 12, 449-456.	3.6	20
5681	High-Performance Capacitive Deionization via Manganese Oxide-Coated, Vertically Aligned Carbon Nanotubes. Environmental Science and Technology Letters, 2018, 5, 692-700.	3.9	69
5682	Mixed Metal Oxide Composites Synthesis and Energy Storage Related Applications. Current Nanomaterials, 2018, 3, 18-25.	0.2	6
5683	Soft-Templated Synthesis of Lightweight, Elastic, and Conductive Nanotube Aerogels. ACS Applied Materials & Interfaces, 2018, 10, 37426-37433.	4.0	16
5684	Pr/Ba cation-disordered perovskite Pr_{2/3}Ba_{1/3}CoO_{3â^'Î´} as a new bifunctional electrocatalyst for oxygen reduction and oxygen evolution reactions. Journal of the Ceramic Society of Japan, 2018, 126, 814-819.	0.5	14
5685	Synthesis and Thermoelectric Characterization of Lead Telluride Hollow Nanofibers. Frontiers in Chemistry, 2018, 6, 436.	1.8	7
5686	High recyclability and power performance of a thin micro lithium-ion battery anode. Journal of Physics: Conference Series, 2018, 1052, 012013.	0.3	0
5687	Organic Ionic Plastic Crystal-Poly(ethylene oxide) Solid Polymer Electrolytes: Application in All-Solid-State Lithium Batteries. Industrial & Engineering Chemistry Research, 2018, 57, 13608-13614.	1.8	19
5688	Palladium nanoparticles from surfactant/fast-reduction combination one-pot synthesis for the liquid fuel cell applications. International Journal of Hydrogen Energy, 2018, 43, 19029-19037.	3.8	6
5689	Advanced metal-organic frameworks (MOFs) and their derived electrode materials for supercapacitors. Journal of Power Sources, 2018, 402, 281-295.	4.0	160
5690	Freeâ€Standing Electrodes Derived from Metalâ€“Organic Frameworks/ Nanofibers Hybrids for Membrane Capacitive Deionization. Advanced Materials Technologies, 2018, 3, 1800135.	3.0	41
5691	Facile synthesis of Nb2O5/carbon nanocomposites as advanced anode materials for lithium-ion batteries. Electrochimica Acta, 2018, 292, 63-71.	2.6	77
5692	Hydrothermal Synthesis and Phase Formation Mechanism of TiO₂(B) Nanorods via Alkali Metal Titanate Phase Transformation. Solid State Phenomena, 0, 283, 23-36.	0.3	11
5693	Urchin-Like Ni2/3Co1/3(CO3)1/2(OH)Â·0.11H2O for High-Performance Supercapacitors. Frontiers in Chemistry, 2018, 6, 431.	1.8	16

#	Article	IF	Citations
5694	Biomass-derived carbon/Î³-MnO2 nanorods/S composites prepared by facile procedures with improved performance for Li/S batteries. Electrochimica Acta, 2018, 292, 522-531.	2.6	28
5695	A Review of Functional Binders in Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1802107.	10.2	324
5696	Porous MnCO3 hierarchical micro/nano cubes with superior lithium storage performances. Journal of Materials Science: Materials in Electronics, 2018, 29, 17859-17864.	1.1	5
5697	The Role of Current Collector in Enabling the High Performance of Li/S Battery. ChemistrySelect, 2018, 3, 10371-10377.	0.7	22
5699	Unraveling the effect of salt chemistry on long-durability high-phosphorus-concentration anode for potassium ion batteries. Nano Energy, 2018, 53, 967-974.	8.2	151
5700	Self-adaptive electrochemical reconstruction boosted exceptional Li⁺ ion storage in a Cu₃P@C anode. Journal of Materials Chemistry A, 2018, 6, 18821-18826.	5.2	60
5701	Solvothermal preparation of Al/Fe-doped V6O13 as cathode materials for lithium-ion batteries with enhanced electrochemical performance. Journal of Electroanalytical Chemistry, 2018, 829, 20-26.	1.9	15
5702	Encapsulation of Metal Nanoparticle Catalysts Within Mesoporous Zeolites and Their Enhanced Catalytic Performances: A Review. Frontiers in Chemistry, 2018, 6, 550.	1.8	74
5703	Direct Electricity Generation Mediated by Molecular Interactions with Low Dimensional Carbon Materialsâ€”A Mechanistic Perspective. Advanced Energy Materials, 2018, 8, 1802212.	10.2	47
5704	Magnetic Au-Ag-Î³-Fe2O3/rGO Nanocomposites as an Efficient Catalyst for the Reduction of 4-Nitrophenol. Nanomaterials, 2018, 8, 877.	1.9	11
5705	Nanostructured multi-block copolymer single-ion conductors for safer high-performance lithium batteries. Energy and Environmental Science, 2018, 11, 3298-3309.	15.6	167
5706	A Reversible Rocksalt to Amorphous Phase Transition Involving Anion Redox. Scientific Reports, 2018, 8, 15086.	1.6	21
5707	Amphiphilic-DNA Platform for the Design of Crystalline Frameworks with Programmable Structure and Functionality. Journal of the American Chemical Society, 2018, 140, 15384-15392.	6.6	39
5708	Device Configurations and Future Prospects of Flexible/Stretchable Lithiumâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1805596.	7.8	132
5709	Porosityâ€engineered Hard Carbons Hybridized with Carbon Nanotubes for Electrochemical Capacitors. Bulletin of the Korean Chemical Society, 2018, 39, 1171-1175.	1.0	1
5710	Synthesis of Molybdenumâ€“Tungsten Bimetallic Carbide Hollow Spheres as pHâ€Universal Electrocatalysts for Efficient Hydrogen Evolution Reaction. Advanced Materials Interfaces, 2018, 5, 1801302.	1.9	30
5711	Synthesis of High Surface Area Carbon Nanospheres with Wrinkled Cages and Their CO₂ Capture Studies. ChemistrySelect, 2018, 3, 10684-10688.	0.7	12
5712	Deep insights into kinetics and structural evolution of nitrogen-doped carbon coated TiNb24O62 nanowires as high-performance lithium container. Nano Energy, 2018, 54, 227-237.	8.2	96

#	Article	IF	Citations
5713	Monolayer Transition-Metal Dichalcogenide Mo_{1â€“x}W_xS₂Alloys as Efficient Anode Materials for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 25837-25848.	1.5	28
5714	A robust fuel cell operated on nearly dry methane at 500 Â°C enabled by synergistic thermal catalysis and electrocatalysis. Nature Energy, 2018, 3, 1042-1050.	19.8	230
5715	Ligament Evolution in Nanoporous Cu Films Prepared by Dealloying. Journal of Physical Chemistry C, 2018, 122, 26378-26384.	1.5	9
5716	Fundamental Basis for Distinctive Sensing of H₂ in Humid Environment. Energy and Environmental Materials, 2018, 1, 174-178.	7.3	30
5717	Heterostructure Manipulation toward Ameliorating Electrodes for Better Lithium Storage Capability. ACS Sustainable Chemistry and Engineering, 2018, 6, 17267-17276.	3.2	7
5718	Shell-Protective Secondary Silicon Nanostructures as Pressure-Resistant High-Volumetric-Capacity Anodes for Lithium-Ion Batteries. Nano Letters, 2018, 18, 7060-7065.	4.5	121
5719	MOF-derived carbon-encapsulated cobalt sulfides orostachys-like micro/nano-structures as advanced anode material for lithium ion batteries. Electrochimica Acta, 2018, 290, 193-202.	2.6	46
5720	Competitive Adsorption of ZrO₂ Nanoparticle and Alkali Cations (Li⁺â€“Cs⁺) on Muscovite (001). Langmuir, 2018, 34, 12270-12278.	1.6	7
5721	A versatile electrochemical method to synthesize Co-CoO core-shell nanowires anodes for lithium ion batteries with superior stability and rate capability. Electrochimica Acta, 2018, 290, 347-355.	2.6	18
5722	Design and synthesis of structured particles for next-generation lithium-ion batteries. , 2018, , 261-278.		1
5723	Mesoporous Ta2O5 nanoparticles as an anode material for lithium ion battery and an efficient photocatalyst for hydrogen evolution. International Journal of Hydrogen Energy, 2018, 43, 18125-18135.	3.8	43
5724	Conversion Reaction of Nanoporous ZnO for Stable Electrochemical Cycling of Binderless Si Microparticle Composite Anode. ACS Nano, 2018, 12, 10903-10913.	7.3	33
5725	Puzzles and confusions in supercapacitor and battery: Theory and solutions. Journal of Power Sources, 2018, 401, 213-223.	4.0	220
5726	Role of structural hydroxyl groups in enhancing performance of electrochemically-synthesized bilayer V2O5. Nano Energy, 2018, 53, 449-457.	8.2	21
5727	Single-crystalline FeCo nanoparticle-filled carbon nanotubes: synthesis, structural characterization and magnetic properties. Beilstein Journal of Nanotechnology, 2018, 9, 1024-1034.	1.5	11
5728	Vacancies Revitalized Ni₃ZnC_{0.7} Bimetallic Carbide Hybrid Electrodes with Multiplied Charge-Storage Capability for High-Capacity and Stable-Cyclability Lithium-Ion Storage. ACS Applied Energy Materials, 2018, 1, 5008-5015.	2.5	19
5730	Recycling application of waste Liâ€“MnO₂ batteries as efficient catalysts based on electrochemical lithiation to improve catalytic activity. Green Chemistry, 2018, 20, 4901-4910.	4.6	53
5731	Integral Equation Prediction of the Structure of Alternating Copolymer Nanocomposites near a Substrate. Langmuir, 2018, 34, 11612-11628.	1.6	3

#	Article	IF	Citations
5732	NiO/Ni_xCo_{3âˆ’x}O₄ porous ultrathin nanosheet/nanowire composite structures as high-performance supercapacitor electrodes. RSC Advances, 2018, 8, 31853-31859.	1.7	6
5733	Versatile origami micro-supercapacitors array as a wind energy harvester. Journal of Materials Chemistry A, 2018, 6, 19750-19756.	5.2	37
5734	Design and Mechanisms of Asymmetric Supercapacitors. Chemical Reviews, 2018, 118, 9233-9280.	23.0	2,379
5735	Impedance Resonance in Narrow Confinement. Journal of Physical Chemistry C, 2018, 122, 21724-21734.	1.5	16
5736	Two-dimensional materials for miniaturized energy storage devices: from individual devices to smart integrated systems. Chemical Society Reviews, 2018, 47, 7426-7451.	18.7	384
5737	Bismuth germanate (Bi₄Ge₃O₁₂), a promising high-capacity lithium-ion battery anode. Chemical Communications, 2018, 54, 11483-11486.	2.2	19
5738	The electrochemical properties of Co₃O₄ as a lithium-ion battery electrode: a first-principles study. Physical Chemistry Chemical Physics, 2018, 20, 25016-25022.	1.3	11
5739	Design of nanostructured hybrid materials: twin polymerization of urethane-based twin prepolymers. RSC Advances, 2018, 8, 31673-31681.	1.7	1
5740	Promoting Oxygen Reduction Reaction Activity of Feâ€“N/C Electrocatalysts by Silica-Coating-Mediated Synthesis for Anion-Exchange Membrane Fuel Cells. Chemistry of Materials, 2018, 30, 6684-6701.	3.2	105
5741	Facile preparation of four SnOx-C hybrids with superior electrochemical performance for lithium-ion batteries. Electrochimica Acta, 2018, 288, 20-30.	2.6	10
5742	CMK-3/NiCo2S4 nanostructures for high performance asymmetric supercapacitors. Materials Chemistry and Physics, 2018, 220, 270-277.	2.0	35
5743	Crystal structural design of exposed planes: express channels, high-rate capability cathodes for lithium-ion batteries. Nanoscale, 2018, 10, 17435-17455.	2.8	82
5744	Effects of heteroatom doping on the performance of graphene in sodium-ion batteries: A density functional theory investigation. Carbon, 2018, 140, 276-285.	5.4	106
5745	A biomass-derived nitrogen-doped porous carbon for high-energy supercapacitor. Carbon, 2018, 140, 404-412.	5.4	102
5746	Free-Standing 3D-Sponged Nanofiber Electrodes for Ultrahigh-Rate Energy-Storage Devices. ACS Applied Materials & Interfaces, 2018, 10, 34140-34146.	4.0	18
5747	Extraordinary supercapacitance in activated carbon produced via a sustainable approach. Journal of Power Sources, 2018, 394, 140-147.	4.0	31
5748	Performance of Carbon Nano-Scale Allotropes in Detecting Midazolam and Paracetamol in Undiluted Human Serum. IEEE Sensors Journal, 2018, 18, 5073-5081.	2.4	13
5749	Rapid and controllable synthesis of Fe3O4 octahedral nanocrystals embedded-reduced graphene oxide using microwave irradiation for high performance lithium-ion batteries. Electrochimica Acta, 2018, 281, 78-87.	2.6	87

#	Article	IF	Citations
5750	Biogenous iron oxide (L-BIOX) as a high capacity anode material for lithium ion batteries. Electrochimica Acta, 2018, 281, 227-236.	2.6	3
5751	Facile one pot synthesis of novel Hg2+ doped PbI2 nanostructures for optoelectronic and radiation shielding applications. Materials Science in Semiconductor Processing, 2018, 83, 231-238.	1.9	15
5752	Nanoporous Copper Fabricated by Dealloying Mnâ€“Cu Precursors with Minor Nickel Element Addition and Heat Treatment Coarsening. Nano, 2018, 13, 1850058.	0.5	10
5753	A Generalizable Topâ€Down Nanostructuring Method of Bulk Oxides: Sequential Oxygenâ€“Nitrogen Exchange Reaction. Small, 2018, 14, e1801124.	5.2	22
5754	The interaction of hydrogen with Li-coated C70 fullerene: A DFT study. International Journal of Hydrogen Energy, 2018, 43, 12271-12277.	3.8	15
5755	Enhanced reversible hydrogen desorption properties and mechanism of Mg(BH4)2-AlH3-LiH composite. Journal of Alloys and Compounds, 2018, 762, 548-554.	2.8	14
5756	DNA-assisted synthesis of nickel cobalt sulfide nanosheets as high-performance battery-type electrode materials. Journal of Colloid and Interface Science, 2018, 528, 100-108.	5.0	5
5757	Transition metal oxalates as energy storage materials. A review. Materials Today Energy, 2018, 9, 198-222.	2.5	54
5758	Formation of different shell structures in lithium-rich layered oxides and their influence on electrochemical properties. RSC Advances, 2018, 8, 18589-18596.	1.7	3
5759	Highly efficient supercapacitor using single-walled carbon nanotube electrodes and ionic liquid incorporated solid gel electrolyte. High Performance Polymers, 2018, 30, 971-977.	0.8	26
5760	Polyoxotungstate@Carbon Nanocomposites As Oxygen Reduction Reaction (ORR) Electrocatalysts. Langmuir, 2018, 34, 6376-6387.	1.6	41
5761	Single crystalline SnO2 nanorods functionalized with TiO2 nanospheres and their electrochemical properties. Ceramics International, 2018, 44, 14471-14479.	2.3	7
5762	High discharge efficiency of (Sr, Pb, Bi) TiO3 relaxor ceramics for energy-storage application. Applied Physics Letters, 2018, 112, .	1.5	29
5763	Selfâ€Assembly of Antisite Defectless nanoâ€LiFePO₄@C/Reduced Graphene Oxide Microspheres for Highâ€Performance Lithiumâ€Ion Batteries. ChemSusChem, 2018, 11, 2255-2261.	3.6	25
5764	A novel approach to synthesize micrometer-sized porous silicon as a high performance anode for lithium-ion batteries. Nano Energy, 2018, 50, 589-597.	8.2	191
5765	Advanced microheater for in situ transmission electron microscopy; enabling unexplored analytical studies and extreme spatial stability. Ultramicroscopy, 2018, 192, 14-20.	0.8	46
5766	Low Temperature Synthesized H₂Ti₃O₇ Nanotubes with a High CO₂ Adsorption Property by Amine Modification. Langmuir, 2018, 34, 6814-6819.	1.6	17
5767	Creating Nano-engineered Biomaterials with Well-Defined Surface Descriptors. ACS Applied Nano Materials, 2018, 1, 2796-2807.	2.4	28

#	Article	IF	Citations
5768	A lightweight, compressible and portable sponge-based supercapacitor for future power supply. Chemical Engineering Journal, 2018, 349, 509-521.	6.6	44
5769	Photophysical study of the interaction between ZnO nanoparticles and globular protein bovine serum albumin in solution and in a layer-by-layer self-assembled film. Journal of Physics and Chemistry of Solids, 2018, 121, 110-120.	1.9	10
5770	Flux-Mediated Topochemical Growth of Platelet-Shaped Perovskite LiNbO₃ Single Crystals from Layered Potassium Niobate Crystals. Crystal Growth and Design, 2018, 18, 4111-4116.	1.4	3
5771	3D Interconnected Binder-Free Electrospun MnO@C Nanofibers for Supercapacitor Devices. Scientific Reports, 2018, 8, 7988.	1.6	113
5772	A quadrafunctional electrocatalyst of nickel/nickel oxide embedded N-graphene for oxygen reduction, oxygen evolution, hydrogen evolution and hydrogen peroxide oxidation reactions. Sustainable Energy and Fuels, 2018, 2, 2081-2089.	2.5	34
5773	Î±-Fe 2 O 3 /SnO 2 heterostructure composites: A high stability anode for lithium-ion battery. Materials Research Bulletin, 2018, 106, 7-13.	2.7	20
5774	Continuous and Conformal Lithium Titanate Spinel Thin Films by Solid State Reaction. Journal of the Electrochemical Society, 2018, 165, B3184-B3193.	1.3	8
5775	A facile method to enhance electrochemical performance of high-nickel cathode material Li(Ni0.8Co0.1Mn0.1)O2 via Ti doping. Journal of Materials Science: Materials in Electronics, 2018, 29, 10702-10708.	1.1	24
5776	Hierarchical carbon-decorated Fe3O4 on hollow CuO nanotube array: Fabrication and used as negative material for ultrahigh-energy density hybrid supercapacitor. Chemical Engineering Journal, 2018, 349, 491-499.	6.6	67
5777	Common Principles of Molecular Electronics and Nanoscale Electrochemistry. Analytical Chemistry, 2018, 90, 7095-7106.	3.2	40
5778	Hierarchical NiCo₂O₄@NiCo₂S₄ Nanocomposite on Ni Foam as an Electrode for Hybrid Supercapacitors. ACS Omega, 2018, 3, 5634-5642.	1.6	99
5779	A Silicon Anode Material with Layered Structure for the Lithium-ion Battery. Journal of Physics: Conference Series, 2018, 986, 012024.	0.3	5
5781	A strongly cooperative spinel nanohybrid as an efficient bifunctional oxygen electrocatalyst for oxygen reduction reaction and oxygen evolution reaction. Applied Catalysis B: Environmental, 2018, 236, 413-419.	10.8	82
5782	Sn-Fe5(PO4)4(OH)3.2H2O/graphene: A new electrode for superior rate applications in Li/Na ion batteries. Journal of Power Sources, 2018, 395, 31-40.	4.0	7
5783	Novel secondary assembled micro/nano porous spheres ZnCo₂O₄ with superior electrochemical performances as lithium ion anode material. Nanotechnology, 2018, 29, 325603.	1.3	8
5784	Pt-Decorated Composition-Tunable Pdâ€“Fe@Pd/C Coreâ€“Shell Nanoparticles with Enhanced Electrocatalytic Activity toward the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2018, 140, 7248-7255.	6.6	116
5785	Construction of hierarchical nickel cobalt selenide complex hollow spheres for pseudocapacitors with enhanced performance. Electrochimica Acta, 2018, 281, 109-116.	2.6	124
5786	Platinum nanoparticles on nitrogen-doped carbon and nickel composites surfaces: A high electrical conductivity for methanol oxidation reaction. Journal of Alloys and Compounds, 2018, 763, 250-256.	2.8	24

#	Article	IF	Citations
5787	Site energy distribution of ions in the potential energy landscape of amorphous solids. Materials Today Physics, 2018, 5, 12-19.	2.9	14
5788	Nickel sulfide anchored carbon nanotubes for all-solid-state lithium batteries with enhanced rate capability and cycling stability. Journal of Materials Chemistry A, 2018, 6, 12098-12105.	5.2	76
5789	Nitrogen, Sulfur, Phosphorous Coâ€doped Interconnected Porous Carbon Nanosheets with High Defect Density for Enhancing Supercapacitor and Lithiumâ€Ion Battery Properties. ChemElectroChem, 2018, 5, 2367-2375.	1.7	40
5790	CoNi₂S₄ Nanoparticle/Carbon Nanotube Sponge Cathode with Ultrahigh Capacitance for Highly Compressible Asymmetric Supercapacitor. Small, 2018, 14, e1800998.	5.2	87
5791	Sea-Sponge-like Structure of Nano-Fe₃O₄ on Skeleton-C with Long Cycle Life under High Rate for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 19656-19663.	4.0	56
5792	Morphological control of three-dimensional carbon nanotube anode for high-capacity lithium-ion battery. Japanese Journal of Applied Physics, 2018, 57, 05GC05.	0.8	1
5793	Reaction-Ball-Milling-Driven Surface Coating Strategy to Suppress Pulverization of Microparticle Si Anodes. ACS Applied Materials & Interfaces, 2018, 10, 20591-20598.	4.0	34
5794	Synthesis of novel families of conductive cationic poly(ionic liquid)s and their application in all-polymer flexible pseudo-supercapacitors. Electrochimica Acta, 2018, 281, 777-788.	2.6	26
5795	An apparent liquid permeability model of dual-wettability nanoporous media: A case study of shale. Chemical Engineering Science, 2018, 187, 280-291.	1.9	68
5796	Atomic Layer-Deposited Molybdenum Oxide/Carbon Nanotube Hybrid Electrodes: The Influence of Crystal Structure on Lithium-Ion Capacitor Performance. ACS Applied Materials & Interfaces, 2018, 10, 18675-18684.	4.0	37
5797	Bi₂Mn₄O₁₀: a new mullite-type anode material for lithium-ion batteries. Dalton Transactions, 2018, 47, 7739-7746.	1.6	11
5798	An operando X-ray diffraction study of chloroaluminate anion-graphite intercalation in aluminum batteries. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5670-5675.	3.3	109
5799	A â€œStickyâ€•Mucinâ€Inspired DNAâ€Polysaccharide Binder for Silicon and Siliconâ€“Graphite Blended Anodes in Lithiumâ€Ion Batteries. Advanced Materials, 2018, 30, e1707594.	11.1	96
5800	Progress and prospects in reverse electrodialysis for salinity gradient energy conversion and storage. Applied Energy, 2018, 225, 290-331.	5.1	214
5801	Facile synthesis of hollow MnO microcubes as superior anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2018, 756, 93-102.	2.8	19
5802	Facile Synthesis of Flowerlike Bi₂MoO₆ Hollow Microspheres for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 7355-7361.	3.2	55
5803	Direct Ethanol Fuel Cells with Superior Ethanol-Tolerant Nonprecious Metal Cathode Catalysts for Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 7609-7618.	3.2	28
5804	Tannic acid-mediated synthesis of dual-heteroatom-doped hollow carbon from a metalâ€“organic framework for efficient oxygen reduction reaction. Dalton Transactions, 2018, 47, 7812-7818.	1.6	30

#	Article	IF	Citations
5805	Structures and properties of Mg_{0.95}Mn_{0.01}TM_{0.04}O (TM = Co, Ni,) Tj ETQq0 0 0 rgBT /Overloc 14120-14128.	1.7	9
5806	Fabrication of MnFe₂O₄ and MnCO₃ Nanoparticles Anchored on Amorphous Carbon-Coated Carbon Nanotubes for High-Performance Lithium Batteries and Supercapacitors. Nano, 2018, 13, 1850050.	0.5	8
5807	A comparative study on the electrochemical properties of nanoporous nickel oxide nanowires and nanosheets prepared by a hydrothermal method. RSC Advances, 2018, 8, 19449-19455.	1.7	57
5808	One-pot synthesis of covalently functionalized reduced graphene oxideâ€“polyaniline nanocomposite for supercapacitor applications. Clean Technologies and Environmental Policy, 2018, 20, 2025-2035.	2.1	10
5809	Mg₂Nb₃₄O₈₇ Porous Microspheres for Use in High-Energy, Safe, Fast-Charging, and Stable Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 23711-23720.	4.0	58
5810	A free-standing, flexible PEDOT:PSS film and its nanocomposites with graphene nanoplatelets as electrodes for quasi-solid-state supercapacitors. Nanotechnology, 2018, 29, 395401.	1.3	29
5811	Engineering Morphologies of Cobalt Pyrophosphates Nanostructures toward Greatly Enhanced Electrocatalytic Performance of Oxygen Evolution Reaction. Small, 2018, 14, e1801068.	5.2	45
5812	2.12 Electrolytic Materials. , 2018, , 329-367.		5
5813	Core-shell CoMoO4@Ni(OH)2 on ordered macro-porous electrode plate for high-performance supercapacitor. Electrochimica Acta, 2018, 283, 538-547.	2.6	29
5814	Conformal carbon coated TiO2 aerogel as superior anode for lithium-ion batteries. Chemical Engineering Journal, 2018, 351, 825-831.	6.6	60
5815	A facile synthesis of heteroatom-doped carbon framework anchored with TiO2 nanoparticles for high performance lithium ion battery anodes. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	9
5816	Ultrafine layered graphite as an anode material for lithium ion batteries. Materials Letters, 2018, 229, 134-137.	1.3	43
5817	Electrochemical energy storage devices for wearable technology: a rationale for materials selection and cell design. Chemical Society Reviews, 2018, 47, 5919-5945.	18.7	314
5818	T-Nb₂O₅ nanoparticle enabled pseudocapacitance with fast Li-ion intercalation. Nanoscale, 2018, 10, 14165-14170.	2.8	29
5819	Nanostructured Li₃V₂(PO₄)₃ Cathodes. Small, 2018, 14, e1800567.	5.2	85
5820	Additive-free electrode fabrication with reduced graphene oxide using supersonic kinetic spray for flexible lithium-ion batteries. Carbon, 2018, 139, 195-204.	5.4	19
5821	A comprehensive study on the mechanism for controlled synthesis of ZnO-based nanomaterials via various polysaccharides as chelates. Results in Physics, 2018, 9, 1596-1601.	2.0	5
5822	Energetics of Nanoparticle Exsolution from Perovskite Oxides. Journal of Physical Chemistry Letters, 2018, 9, 3772-3778.	2.1	65

#	Article	IF	Citations
5823	Recent Advances in the Synthesis of Metal Oxide (MO) Nanostructures. , 2018, , 255-281.		10
5824	Excellent electrochemical behavior of graphene oxide based aluminum sulfide nanowalls for supercapacitor applications. Energy, 2018, 159, 151-159.	4.5	36
5825	NiCo2S4 nanosheets network supported on Ni foam as an electrode for hybrid supercapacitors. Journal of Alloys and Compounds, 2018, 766, 149-156.	2.8	35
5826	Enhanced supercapacitive performance of Ni0.5Mg0.5Co2O4 flowers and rods as an electrode material for high energy density supercapacitors: Rod morphology holds the key. Journal of Alloys and Compounds, 2018, 766, 859-867.	2.8	25
5828	Searching high dielectric permittivity in barium titanate based material by machine learning prediction. , 2018, , .		0
5829	Three-dimensional MoO2@few-layered MoS2 covered by S-doped graphene aerogel for enhanced lithium ion storage. Electrochimica Acta, 2018, 283, 619-627.	2.6	42
5830	General ion-exchanged method synthesized 3D heterostructured MCo2O4/Co3O4 nanocomposites (M=) Tj ETQq0 0 0 rgBT /Overlock 1	2.8	11
5831	Improving the Performance of Batteries by Using Multiâ€Pyrene PTMA Structures. Batteries and Supercaps, 2018, 1, 102-109.	2.4	18
5832	Application of Nanomaterials Prepared by Thermolysis of Metal Chelates. Springer Series on Polymer and Composite Materials, 2018, , 459-541.	0.5	1
5833	A smart architecture of nickel-cobalt sulfide nanotubes assembled nanoclusters for high-performance pseudocapacitor. Journal of Alloys and Compounds, 2018, 765, 505-511.	2.8	12
5835	Advanced Nanomaterials for Green Energy. , 2018, , 457-472.		14
5836	MnO2 nanoparticles anchored on carbon nanotubes with hybrid supercapacitor-battery behavior for ultrafast lithium storage. Carbon, 2018, 139, 145-155.	5.4	77
5837	Smart short-chain bifunctional N,N-dimethylethanolamine for high-performance lithium batteries. Electrochimica Acta, 2018, 282, 711-718.	2.6	3
5838	A porous 2D Ni-MOF material with a high supercapacitive performance. Journal of Solid State Chemistry, 2018, 265, 244-247.	1.4	71
5839	Systematic design of superaerophobic nanotube-array electrode comprised of transition-metal sulfides for overall water splitting. Nature Communications, 2018, 9, 2452.	5.8	431
5840	New In Situ Synthesis Method for Fe₃O₄/Flake Graphite Nanosheet Composite Structure and Its Application in Anode Materials of Lithium-Ion Batteries. Journal of Nanomaterials, 2018, 2018, 1-7.	1.5	3
5841	Transition-metal-doped NiSe2 nanosheets towards efficient hydrogen evolution reactions. Nano Research, 2018, 11, 6051-6061.	5.8	72
5842	Potential of Graphene for Miniature Sensors and Conducting Devices for Biomedical Applications. , 2018, , .		0

#	Article	IF	Citations
5843	High faradaic charge storage in ZnCo2S4 film on Ni-foam with a hetero-dimensional microstructure for hybrid supercapacitor. Materials Today Energy, 2018, 9, 416-427.	2.5	59
5844	Facile and scalable synthesis of nanostructured Fe2O3 using ionic liquid-assisted ball milling for high-performance pseudocapacitors. Solid State Sciences, 2018, 83, 201-206.	1.5	7
5845	Mechanochemically synthesized NiCo2O4/Vulcan/PANI nanocomposite and investigation of its electrochemical behavior as a supercapacitor. Ceramics International, 2018, 44, 20049-20057.	2.3	19
5846	Nematic liquid crystal alignment on subwavelength metal gratings. Beilstein Journal of Nanotechnology, 2018, 9, 42-47.	1.5	3
5847	UV-resistant holographic data storage in noble-metal/semiconductor nanocomposite films with electron-acceptors. Optical Materials Express, 2018, 8, 1143.	1.6	10
5848	Metal hydrides for lithium-ion battery application: A review. Journal of Alloys and Compounds, 2018, 769, 167-185.	2.8	41
5849	Robust Removal of Ligands from Noble Metal Nanoparticles by Electrochemical Strategies. ACS Catalysis, 2018, 8, 8484-8492.	5.5	52
5850	A novel Sn/SnO/graphene triple core-shell heterogeneous catalyst for oxygen reduction reaction. Inorganic Chemistry Communication, 2018, 96, 101-105.	1.8	8
5851	Unveiling the Outstanding Oxygen Mass Transport Properties of Mn-Rich Perovskites in Grain Boundary-Dominated La_{0.8}Sr_{0.2}(Mn_{1â€“x}Co_x)_{0.85}O_{3Â±Î´} Nanostructures. Chemistry of Materials, 2018, 30, 5621-5629.	3.2	25
5852	Graphene-templated growth of vertical MnO nanosheets with open macroporous architectures as anode materials for fast lithium storage. Journal of Alloys and Compounds, 2018, 769, 10-17.	2.8	11
5853	Self-recovery in Li-metal hybrid lithium-ion batteries via WO₃ reduction. Nanoscale, 2018, 10, 15956-15966.	2.8	87
5854	Metallic Octahedral CoSe₂ Threaded by Nâ€Doped Carbon Nanotubes: A Flexible Framework for Highâ€Performance Potassiumâ€Ion Batteries. Advanced Science, 2018, 5, 1800782.	5.6	198
5855	Zero-strain K_{0.6}Mn₁F_{2.7} hollow nanocubes for ultrastable potassium ion storage. Energy and Environmental Science, 2018, 11, 3033-3042.	15.6	87
5856	Elucidating the energy storage mechanism of ZnMn₂O₄ as promising anode for Li-ion batteries. Journal of Materials Chemistry A, 2018, 6, 19381-19392.	5.2	57
5857	Polyarylene Ether Nitrile-Based High-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mi>k</mml:mi></mml:math> Composites for Dielectric Applications. International Journal of Polymer Science, 2018, 2018, 1-15.	1.2	15
5858	Highly-Stable Li4Ti5O12 Anodes Obtained by Atomic-Layer-Deposited Al2O3. Materials, 2018, 11, 803.	1.3	12
5859	Carbonâ€Rich Nanomaterials: Fascinating Hydrogen and Oxygen Electrocatalysts. Advanced Materials, 2018, 30, e1800528.	11.1	135
5860	Three-dimensional hierarchical NiCo2S4@MoS2 heterostructure arrays for high performance sodium ion battery. FlatChem, 2018, 10, 14-21.	2.8	15

#	Article	IF	Citations
5861	Olivine LiFePO4 nanocrystals grown on nitrogen-doped graphene sheets as high-rate cathode for lithium-ion batteries. Solid State Ionics, 2018, 325, 12-16.	1.3	23
5862	Hybrid symmetric supercapacitor assembled by renewable corn silks based porous carbon and redox-active electrolytes. Materials Chemistry and Physics, 2018, 218, 229-238.	2.0	34
5863	Ni counterpart-assisted synthesis of nanoarchitectured Co3O4/CoS/Ni(OH)2@Co electrode for superior supercapacitor. Electrochimica Acta, 2018, 284, 444-453.	2.6	38
5864	Controlled synthesis of noble metal nanomaterials: motivation, principles, and opportunities in nanocatalysis. Anais Da Academia Brasileira De Ciencias, 2018, 90, 719-744.	0.3	42
5865	Magnetic field induced electrochemical performance enhancement in reduced graphene oxide anchored Fe₃O₄ nanoparticle hybrid based supercapacitor. Journal Physics D: Applied Physics, 2018, 51, 375501.	1.3	50
5866	S-enriched porous polymer derived N-doped porous carbons for electrochemical energy storage and conversion. Frontiers of Chemical Science and Engineering, 2018, 12, 346-357.	2.3	9
5867	Synthesis of mesoporous ribbon-shaped graphitic carbon nanofibers with superior performance as efficient supercapacitor electrodes. Electrochimica Acta, 2018, 292, 364-373.	2.6	30
5868	Solâ€“Gel Synthesis of Mesoporous Î±-Co(OH)₂ and Its Electrochemical Performance Evaluation. ACS Omega, 2018, 3, 7955-7961.	1.6	26
5869	Exploring the performance of nanostructured reagents with organic-group-defined morphology in cross-coupling reaction. Nature Communications, 2018, 9, 2936.	5.8	34
5870	Vertically oriented TiS_{2â”x} nanobelt arrays as binder- and carbon-free intercalation electrodes for Li- and Na-based energy storage devices. Journal of Materials Chemistry A, 2018, 6, 21949-21960.	5.2	22
5871	Fabrication of Si Nanoparticles@Conductive Carbon Framework@Polymer Composite as Highâ€Arealâ€Capacity Anode of Lithiumâ€Ion Batteries. ChemElectroChem, 2018, 5, 3258-3265.	1.7	20
5872	Tin Disulfide Nanosheets with Active-Site-Enriched Surface Interfacially Bonded on Reduced Graphene Oxide Sheets as Ultra-Robust Anode for Lithium and Sodium Storage. ACS Applied Materials & Interfaces, 2018, 10, 28533-28540.	4.0	36
5873	Direct Chemical Synthesis of Lithium Sub-Stochiometric Olivine Li_{0.7}Co_{0.75}Fe_{0.25}PO₄ Coated with Reduced Graphene Oxide as Oxygen Evolution Reaction Electrocatalyst. ACS Catalysis, 2018, 8, 8715-8725.	5.5	19
5874	Review of electrical energy storage technologies, materials and systems: challenges and prospects for large-scale grid storage. Energy and Environmental Science, 2018, 11, 2696-2767.	15.6	1,467
5875	Polymer nanocomposite materials in energy storage: Properties and applications. , 2018, , 239-282.		7
5876	A high-performance dual-ion cell utilizing Si nanosphere@graphene anode. Electrochimica Acta, 2018, 282, 946-954.	2.6	13
5877	A Roadmap for Achieving Sustainable Energy Conversion and Storage: Graphene-Based Composites Used Both as an Electrocatalyst for Oxygen Reduction Reactions and an Electrode Material for a Supercapacitor. Energies, 2018, 11, 167.	1.6	20
5878	Recent advances in 2-D nanostructured metal nitrides, carbides, and phosphides electrodes for electrochemical supercapacitors â€“ A brief review. Journal of Industrial and Engineering Chemistry, 2018, 67, 12-27.	2.9	111

#	Article	IF	Citations
5879	Superior long-term cyclability of a nanocrystalline NiO anode enabled by a mechanochemical reaction-induced amorphous protective layer for Li-ion batteries. Journal of Power Sources, 2018, 397, 134-142.	4.0	44
5880	On the dynamics of transition metal migration and its impact on the performance of layered oxides for sodium-ion batteries: NaFeO₂as a case study. Journal of Materials Chemistry A, 2018, 6, 15132-15146.	5.2	64
5881	Electrochemical properties of MgH2 â€“ TiH2 nanocomposite as active materials for all-solid-state lithium batteries. Journal of Power Sources, 2018, 397, 143-149.	4.0	15
5882	Hierarchical unidirectional graphene aerogel/polyaniline composite for high performance supercapacitors. Journal of Power Sources, 2018, 397, 189-195.	4.0	44
5883	2.20 Batteries. , 2018, , 629-662.		9
5884	Electronic Band Structure and Electrocatalytic Performance of Cu₃N Nanocrystals. ACS Applied Nano Materials, 2018, 1, 3673-3681.	2.4	27
5885	Potassium vanadates with stable structure and fast ion diffusion channel as cathode for rechargeable aqueous zinc-ion batteries. Nano Energy, 2018, 51, 579-587.	8.2	425
5886	A Systematic Study on the Structural and Optical Properties of Vertically Aligned Zinc Oxide Nanorods Grown by High Pressure Assisted Pulsed Laser Deposition Technique. Nanomaterials, 2018, 8, 62.	1.9	34
5887	Enhanced Supercapacitor Performance Using Electropolymerization of Self-Doped Polyaniline on Carbon Film. Nanomaterials, 2018, 8, 214.	1.9	51
5888	Flexible polypyrrolone-based microporous carbon nanofibers for high-performance supercapacitors. RSC Advances, 2018, 8, 25568-25574.	1.7	12
5889	A Thin Film Flexible Supercapacitor Based on Oblique Angle Deposited Ni/NiO Nanowire Arrays. Nanomaterials, 2018, 8, 422.	1.9	14
5890	Morphology-dependent electrochemical performance of spinel-cobalt oxide nanomaterials towards lithium-ion batteries. Electrochimica Acta, 2018, 283, 1668-1678.	2.6	22
5891	Facile topotactic synthesis of tavorite LiFeSO 4 F using supercritical methanol. Journal of Power Sources, 2018, 398, 27-33.	4.0	5
5892	Printable Nanomaterials for the Fabrication of High-Performance Supercapacitors. Nanomaterials, 2018, 8, 528.	1.9	46
5893	Recent Development of Zeolitic Imidazolate Frameworks (ZIFs) Derived Porous Carbon Based Materials as Electrocatalysts. Advanced Energy Materials, 2018, 8, 1801257.	10.2	242
5894	Lithium Intercalation Materials for Battery Prepared by Sol-Gel Method. , 2018, , 2595-2630.		0
5895	Accordion Strain Accommodation Mechanism within the Epitaxially Constrained Electrode. ACS Energy Letters, 2018, 3, 1848-1853.	8.8	5
5896	The morphology-dependent electrocatalytic activities of spinel-cobalt oxide nanomaterials for direct hydrazine fuel cell application. New Journal of Chemistry, 2018, 42, 13087-13095.	1.4	9

#	Article	IF	Citations
5897	Î³-MnS nanoparticles anchored reduced graphene oxide: Electrode materials for high performance supercapacitors. Journal of Science: Advanced Materials and Devices, 2018, 3, 359-365.	1.5	13
5898	Nitrogen-doped graphene-like carbon nanosheets from commercial glue: morphology, phase evolution and Li-ion battery performance. Dalton Transactions, 2018, 47, 12218-12227.	1.6	20
5899	Low-valence bicomponent (FeO)_x(MnO)_{1â^'x} nanocrystals embedded in amorphous carbon as high-performance anode materials for lithium storage. Journal of Materials Chemistry A, 2018, 6, 15274-15283.	5.2	24
5900	Facile Method to Prepare for the Ni₂P Nanostructures with Controlled Crystallinity and Morphology as Anode Materials of Lithium-Ion Batteries. ACS Omega, 2018, 3, 7655-7662.	1.6	20
5901	Iron sulfide/carbon hybrid cluster as an anode for potassium-ion storage. Journal of Alloys and Compounds, 2018, 766, 1086-1091.	2.8	47
5902	Room-Temperature Pressure Synthesis of Layered Black Phosphorusâ€“Graphene Composite for Sodium-Ion Battery Anodes. ACS Nano, 2018, 12, 8323-8329.	7.3	83
5903	Fe3O4 nanoparticle/graphene aerogel composite with enhanced lithium storage performance. Applied Surface Science, 2018, 458, 1035-1042.	3.1	39
5904	Piezoelectric effects on the resonance frequencies of boron nitride nanosheets. Nanotechnology, 2018, 29, 395703.	1.3	10
5905	A flexible 3D graphene@CNT@MoS2 hybrid foam anode for high-performance lithium-ion battery. Chemical Engineering Journal, 2018, 353, 419-424.	6.6	108
5906	Enhancing the output performance of hybrid nanogenerators based on Al-doped BaTiO₃ composite films: a self-powered utility system for portable electronics. Journal of Materials Chemistry A, 2018, 6, 16101-16110.	5.2	63
5907	Bioinspired sea-sponge nanostructure design of Ni/Ni(HCO₃)₂-on-C for a supercapacitor with a superior anti-fading capacity. Journal of Materials Chemistry A, 2018, 6, 15781-15788.	5.2	24
5908	Porous Fe2O3 Microspheres as Anode for Lithium-Ion Batteries. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012038.	0.3	7
5909	High-Level Heteroatom Doped Two-Dimensional Carbon Architectures for Highly Efficient Lithium-Ion Storage. Frontiers in Chemistry, 2018, 6, 97.	1.8	8
5910	Hierarchical 3D NiCo2O4@ZnWO4 core-shell structures as binder-free electrodes for all-solid-state supercapacitors. Applied Surface Science, 2018, 452, 113-122.	3.1	52
5911	Carbon-coated SbCu alloy nanoparticles for high performance lithium storage. Journal of Alloys and Compounds, 2018, 753, 371-377.	2.8	13
5912	Investigation of structural and electrical transport properties of nano-flower shaped NiCo2O4 supercapacitor electrode materials. Journal of Alloys and Compounds, 2018, 757, 49-59.	2.8	67
5913	Three-dimensional porous microspheres comprising hollow Fe2O3 nanorods/CNT building blocks with superior electrochemical performance for lithium ion batteries. Nanoscale, 2018, 10, 11150-11157.	2.8	46
5914	A high specific capacity anode with silicon enclosed in RGO sphere by using lyophilization for lithium-ion battery. , 2018, , .		0

#	Article	IF	Citations
5915	The In Situ Synthesis of Fe(OH)₃ Film on Fe Foam as Efficient Anode of Alkaline Supercapacitor Based on a Promising Fe³⁺/Fe⁰ Energy Storage Mechanism. Particle and Particle Systems Characterization, 2018, 35, 1700484.	1.2	18
5916	Scallopâ€Inspired Shell Engineering of Microparticles for Stable and High Volumetric Capacity Battery Anodes. Small, 2018, 14, e1800752.	5.2	27
5917	Performance improvement of a four-terminal thermal amplifier with multiple energy selective tunnels. Energy Conversion and Management, 2018, 166, 74-80.	4.4	7
5918	Nanostructured surfaces from high-density grafted poly (acrylic acid) with liquid-like property. Reactive and Functional Polymers, 2018, 127, 123-128.	2.0	1
5919	The influence of thermal annealing on structural properties of Ni nanotubes. Vacuum, 2018, 153, 254-261.	1.6	14
5920	A three body problem: a genuine heterotrimetallic molecule vs. a mixture of two parent heterobimetallic molecules. Chemical Science, 2018, 9, 4736-4745.	3.7	16
5921	A MOF-derived method to construct well-arranged porous nanosheets for lithium ion batteries. Dalton Transactions, 2018, 47, 7571-7577.	1.6	14
5922	Hydrothermally synthesized BiVO₄â€“reduced graphene oxide nanocomposite as a high performance supercapacitor electrode with excellent cycle stability. New Journal of Chemistry, 2018, 42, 10161-10166.	1.4	41
5923	Metal-organic frameworks and their composites as efficient electrodes for supercapacitor applications. Coordination Chemistry Reviews, 2018, 369, 15-38.	9.5	271
5924	Composite of Fe3O4/MnCO3 as anodes for lithium-ion batteries. Journal of Alloys and Compounds, 2018, 757, 112-117.	2.8	12
5925	Room-temperature synthesis of ZnO@GO nanocomposites as anode for lithium-ion batteries. Journal of Materials Research, 2018, 33, 1506-1514.	1.2	22
5926	Insight into destabilization mechanism of Mg-based hydrides interstitially co-doped with nonmetals: a DFT study. European Physical Journal B, 2018, 91, 1.	0.6	1
5927	Interface-engineered hematite nanocones as binder-free electrodes for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 13968-13974.	5.2	18
5928	Superior Electrochemical Properties of Composite Microspheres Consisting of Hollow Fe₂O₃ Nanospheres and Graphitic Carbon. ACS Sustainable Chemistry and Engineering, 2018, 6, 11759-11767.	3.2	13
5929	Transition Metal Carbide Complex Architectures for Energyâ€Related Applications. Chemistry - A European Journal, 2018, 24, 16716-16736.	1.7	27
5930	Tuning density of Si nanoparticles on graphene sheets in graphene-Si aerogels for stable lithium ion batteries. Journal of Colloid and Interface Science, 2018, 532, 738-745.	5.0	18
5931	Yarn-form electrodes with high capacitance and cycling stability based on hierarchical nanostructured nickel-cobalt mixed oxides for weavable fiber-shaped supercapacitors. Journal of Power Sources, 2018, 400, 157-166.	4.0	33
5932	Synthesis and Effect of Hierarchically Structured Ag-ZnO Hybrid on the Surface Antibacterial Activity of a Propylene-Based Elastomer Blends. Materials, 2018, 11, 363.	1.3	18

#	Article	IF	Citations
5933	High-rate electrochemical performance of Li4Ti5O12 obtained from TiCl4 by means of a citric acid aided route. Electrochimica Acta, 2018, 286, 163-171.	2.6	15
5934	Theoretical prediction of LiScO₂ nanosheets as a cathode material for Liâ€“O₂ batteries. Physical Chemistry Chemical Physics, 2018, 20, 22351-22358.	1.3	7
5935	Elevatedâ€Temperature 3D Printing of Hybrid Solidâ€State Electrolyte for Liâ€Ion Batteries. Advanced Materials, 2018, 30, e1800615.	11.1	159
5936	Synthesis and Biomedical Applications of Multifunctional Nanoparticles. Advanced Materials, 2018, 30, e1802309.	11.1	216
5937	Hierarchy Design in Metal Oxides as Anodes for Advanced Lithiumâ€Ion Batteries. Small Methods, 2018, 2, 1800171.	4.6	69
5938	Active site localization of methane oxidation on Pt nanocrystals. Nature Communications, 2018, 9, 3422.	5.8	58
5939	Recent advances in syntheses, properties and applications of TiO₂nanostructures. RSC Advances, 2018, 8, 30125-30147.	1.7	196
5940	Nanostructured Nb2O5 cathode for high-performance lithium-ion battery with Super-P and graphene compound conductive agents. Journal of Electroanalytical Chemistry, 2018, 827, 112-119.	1.9	28
5941	Visualizing Facet-Dependent Hydrogenation Dynamics in Individual Palladium Nanoparticles. Nano Letters, 2018, 18, 5357-5363.	4.5	31
5942	Strategy for Boosting Li-Ion Current in Silicon Nanoparticles. ACS Energy Letters, 2018, 3, 2252-2258.	8.8	49
5943	Applications of Plasma in Energy Conversion and Storage Materials. Advanced Energy Materials, 2018, 8, 1801804.	10.2	77
5944	In situ growth of (NH₄)₂V₁₀O₂₅·8H₂O urchin-like hierarchical arrays as superior electrodes for all-solid-state supercapacitors. Journal of Materials Chemistry A, 2018, 6, 16308-16315.	5.2	38
5945	Germanium nanoparticles supported by 3D ordered macroporous nickel frameworks as high-performance free-standing anodes for Li-ion batteries. Chemical Engineering Journal, 2018, 354, 616-622.	6.6	36
5946	Charged Carbon Nanomaterials: Redox Chemistries of Fullerenes, Carbon Nanotubes, and Graphenes. Chemical Reviews, 2018, 118, 7363-7408.	23.0	182
5947	Nanodendrites of platinum-group metals for electrocatalytic applications. Nano Research, 2018, 11, 6111-6140.	5.8	54
5948	Formation Combined with Intercalation of Ni and Its Alloy Nanoparticles within Mesoporous Silica for Robust Catalytic Reactions. ACS Applied Materials & Interfaces, 2018, 10, 29435-29447.	4.0	39
5949	Hexagonal Ti₂B₂ monolayer: a promising anode material offering high rate capability for Li-ion and Na-ion batteries. Physical Chemistry Chemical Physics, 2018, 20, 22168-22178.	1.3	96
5950	Waste eggshell as bio-template to synthesize high capacity Î´-MnO2 nanoplatelets anode for lithium ion battery. Ceramics International, 2018, 44, 20441-20448.	2.3	34

#	Article	IF	Citations
5951	Composite Graphene/Semiconductor Nano-Structures for Energy Storage. , 2018, , 295-352.		1
5952	Prolonging the Lifetime of Wireless Sensor Networks: A Review of Current Techniques. Wireless Communications and Mobile Computing, 2018, 2018, 1-23.	0.8	117
5953	The Unified Electrochemical Band Diagram Framework: Understanding the Driving Forces of Materials Electrochemistry. Advanced Functional Materials, 2018, 28, 1803439.	7.8	8
5954	Nanoparticle Manufacturing â€“ Heterogeneity through Processes to Products. ACS Applied Nano Materials, 2018, 1, 4358-4385.	2.4	68
5955	Freestanding silicon microparticle and self-healing polymer composite design for effective lithiation stress relaxation. Journal of Materials Chemistry A, 2018, 6, 11353-11361.	5.2	25
5956	Fabrication of Hollow Co₃O₄ Nanospheres and Their Nanocomposites of CNT and rGO as Highâ€Performance Anodes for Lithiumâ€Ion Batteries. ChemistrySelect, 2018, 3, 5502-5511.	0.7	7
5957	Influence of sulfurization time on two step grown SnS thin films. Vacuum, 2018, 155, 318-324.	1.6	14
5958	3D-structured carbon-coated MnO/graphene nanocomposites with exceptional electrochemical performance for Li-ion battery anodes. Journal of Solid State Electrochemistry, 2018, 22, 2977-2987.	1.2	8
5959	Selfâ€Assembled Nanostructured CuCo₂O₄ for Electrochemical Energy Storage and the Oxygen Evolution Reaction via Morphology Engineering. Small, 2018, 14, e1800742.	5.2	100
5960	Large-scale synthesis of Fe3Se4/C composites assembled by aligned nanorods as advanced anode material for lithium storage. Materials Letters, 2018, 228, 235-238.	1.3	18
5961	Hydrothermal Synthesis of Î±â€MnS Nanoflakes@Nitrogen and Sulfur Coâ€doped rGO for Highâ€Performance Hybrid Supercapacitor. ChemistrySelect, 2018, 3, 6061-6072.	0.7	53
5962	Charge pumping in nanotube filled with electrolyte. Chinese Journal of Physics, 2018, 56, 2531-2537.	2.0	3
5963	Facile preparation of biomass-derived bifunctional electrocatalysts for oxygen reduction and evolution reactions. International Journal of Hydrogen Energy, 2018, 43, 8611-8622.	3.8	64
5964	Intramolecular deformation of zeotype-borogermanate toward a three-dimensional porous germanium anode for high-rate lithium storage. Journal of Materials Chemistry A, 2018, 6, 15961-15967.	5.2	17
5965	In situ confined conductive nickel cobalt sulfoselenide with tailored composition in graphitic carbon hollow structure for energy storage. Chemical Engineering Journal, 2018, 351, 678-687.	6.6	33
5966	Fabrication and characterization of the magnetic ferrite nanofibers by electrospinning process. Thin Solid Films, 2018, 660, 358-364.	0.8	32
5967	Promoted stability and electrocatalytic activity of PtRu electrocatalyst derived from coating by cerium oxide with high oxygen storage capacity. Applied Surface Science, 2018, 455, 815-820.	3.1	13
5968	High energy density hybrid supercapacitor based on 3D mesoporous cuboidal Mn2O3 and MOF-derived porous carbon polyhedrons. Electrochimica Acta, 2018, 282, 1-9.	2.6	54

#	Article	IF	Citations
5969	One-pot hydrothermal synthesis of amorphous FeOOH on Ni foam for high performance supercapacitors. Journal of Alloys and Compounds, 2018, 763, 134-140.	2.8	22
5970	Copper-1, 3, 5-benzenetricarboxylate framework nanocrystals on polyaniline: Fabrication, characteristics, and electrochemical application for oxygen reduction reaction. Journal of Electroanalytical Chemistry, 2018, 823, 176-183.	1.9	2
5971	Pistachioâ€Shuckâ€Like MoSe₂/C Core/Shell Nanostructures for Highâ€Performance Potassiumâ€Ion Storage. Advanced Materials, 2018, 30, e1801812.	11.1	297
5972	A self-sacrifice template strategy to fabricate yolk-shell structured silicon@void@carbon composites for high-performance lithium-ion batteries. Chemical Engineering Journal, 2018, 351, 103-109.	6.6	78
5973	Design of ion-conductive core-shell nanoparticles via site-selective quaternization of triazoleâ€“triazolium salt block copolymers. European Polymer Journal, 2018, 105, 339-347.	2.6	11
5974	High energy-density and reversibility of iron fluoride cathode enabled via an intercalation-extrusion reaction. Nature Communications, 2018, 9, 2324.	5.8	136
5975	Transparent supercapacitors of 2 nm ruthenium oxide nanoparticles decorated on a 3D nitrogen-doped graphene aerogel. Sustainable Energy and Fuels, 2018, 2, 1799-1805.	2.5	22
5976	Bottom-up self-assembly of nano-netting cluster microspheres as high-performance lithium storage materials. Journal of Materials Chemistry A, 2018, 6, 13321-13330.	5.2	16
5977	Fundamentals of Dielectric Theories. , 2018, , 11-57.		41
5978	Hetero-nanostructured materials for high-power lithium ion batteries. Journal of Colloid and Interface Science, 2018, 529, 505-519.	5.0	18
5979	Nanoporous gyroid Ni/NiO/C nanocomposites from block copolymer templates with high capacity and stability for lithium storage. Journal of Materials Chemistry A, 2018, 6, 13676-13684.	5.2	36
5980	Facile synthesis of three-dimensional nanostructured Ni(HCO3)2/(Cu0.2Ni0.8)O as high-performance pseudo-capacitance electrode. Journal of Alloys and Compounds, 2018, 763, 791-800.	2.8	9
5981	Graphene-supported 2D transition metal oxide heterostructures. Journal of Materials Chemistry A, 2018, 6, 13509-13537.	5.2	103
5982	Resistance and Permselectivity of 3D-Printed Micropatterned Anion-Exchange Membranes. ACS Applied Materials & Interfaces, 2019, 11, 26298-26306.	4.0	20
5983	Applications of Printed 2D Materials. , 2019, , 179-216.		1
5984	Scalable exfoliation and activation of graphite into porous graphene using microwaves for highâ€“performance supercapacitors. Journal of Alloys and Compounds, 2019, 770, 458-465.	2.8	15
5985	Printing of Graphene and Related 2D Materials. , 2019, , .		25
5986	A novel core-shell polyaniline/graphene oxide/copper nanocomposite for high performance and low-cost supercapacitors. Chemical Papers, 2019, 73, 119-129.	1.0	23

#	Article	IF	Citations
5987	Freestanding graphene/VO2 composite films for highly stable aqueous Zn-ion batteries with superior rate performance. Energy Storage Materials, 2019, 17, 143-150.	9.5	380
5988	Hierarchical nanocarbon-MnO2 electrodes for enhanced electrochemical capacitor performance. Energy Storage Materials, 2019, 16, 607-618.	9.5	39
5989	Electrochemical engineering approach of high performance solid-state flexible supercapacitor device based on chemically synthesized VS2 nanoregime structure. Journal of Energy Chemistry, 2019, 31, 79-88.	7.1	77
5990	Bimetallic metal-organic frameworks derived Ni-Co-Se@C hierarchical bundle-like nanostructures with high-rate pseudocapacitive lithium ion storage. Energy Storage Materials, 2019, 17, 374-384.	9.5	117
5991	Review of fundamentals and applications of polyester nanocomposites filled with carbonaceous nanofillers. Journal of Plastic Film and Sheeting, 2019, 35, 22-44.	1.3	41
5992	Bio-inspired synthesis of 3-D network of NiO-Ni nanowires on carbonized eggshell membrane for lithium-ion batteries. Chemical Engineering Science, 2019, 194, 134-141.	1.9	23
5993	Metal oxide/graphene composite anode materials for sodium-ion batteries. Energy Storage Materials, 2019, 16, 434-454.	9.5	156
5994	Mesoporous NiCo2O4 nanoneedles@MnO2 nanoparticles grown on nickel foam for electrode used in high-performance supercapacitors. Journal of Energy Chemistry, 2019, 31, 167-177.	7.1	34
5995	Tri-high designed graphene electrodes for long cycle-life supercapacitors with high mass loading. Energy Storage Materials, 2019, 17, 349-357.	9.5	58
5996	Hybrid of Fe3C@N, S co-doped carbon nanotubes coated porous carbon derived from metal organic frameworks as an efficient catalyst towards oxygen reduction. Journal of Colloid and Interface Science, 2019, 533, 311-318.	5.0	26
5997	Effect of critical thickness on nanoconfined water fluidity: review, communication, and inspiration. Journal of Petroleum Exploration and Production, 2019, 9, 1149-1159.	1.2	8
5998	Interfacing TiO₂(B) Nanofibers with Li₄Ti₅O₁₂ Towards Highly Reversible and Durable TiO₂â€based Anode for Liâ^'Ion Batteries. Energy Technology, 2019, 7, 107-112.	1.8	4
5999	Facile synthesis of 2D graphene oxide sheet enveloping ultrafine 1D LiMn2O4 as interconnected framework to enhance cathodic property for Li-ion battery. Applied Surface Science, 2019, 463, 132-140.	3.1	49
6000	Bimetallic copper cobalt selenide nanowire-anchored woven carbon fiber-based structural supercapacitors. Chemical Engineering Journal, 2019, 355, 551-559.	6.6	117
6001	Fabrication of ultra-thin carbon nanofibers by centrifuged-electrospinning for application in high-rate supercapacitors. Electrochimica Acta, 2019, 296, 268-275.	2.6	44
6002	New comprehensions on structure superiority of asymmetric carbon membrane and controlled construction of advanced hierarchical inner-structure for high performance supercapacitors. Microporous and Mesoporous Materials, 2019, 275, 14-25.	2.2	30
6003	An advanced zinc air battery with nanostructured superwetting electrodes. Energy Storage Materials, 2019, 17, 358-365.	9.5	25
6004	Synthesis and characterization of high-performance RGO-modified LiNi0.5Mn1.5O4 nanorods as a high power density cathode material for Li-ion batteries. Ionics, 2019, 25, 99-109.	1.2	13

#	Article	IF	Citations
6005	Facile preparation of etched halloysite@polyaniline nanorods and their enhanced electrochemical capacitance performance. Electrochimica Acta, 2019, 321, 134715.	2.6	14
6006	Ultrafast Zinc-Ion Diffusion Ability Observed in 6.0-Nanometer Spinel Nanodots. ACS Nano, 2019, 13, 10376-10385.	7.3	124
6007	Development of electrospun PVdF polymer membrane as separator for supercapacitor applications. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 2294-2308.	1.2	15
6008	Metal-doped graphene nanocomposites and their application in energy storage. , 2019, , 109-120.		1
6009	Degradation Mechanism of Conversion-Type Iron Trifluoride: Toward Improvement of Cycle Performance. ACS Applied Materials & Interfaces, 2019, 11, 30959-30967.	4.0	21
6010	Hydrothermal synthesis, structural elucidation and electrochemical properties of three nickel and cobalt based phosphonates as anode materials for lithium ion batteries. Electrochimica Acta, 2019, 321, 134647.	2.6	30
6011	Adsorbed Iron oxide (FeO), Lead oxide (PbO), Tellurium dioxide (TeO2) and Niobium dioxide (NbO2) to silicon nanotube (9, 0) as anode electrodes in Li- and Na-ion batteries. Solid State Ionics, 2019, 341, 115043.	1.3	7
6012	Three-Dimensional Antimony Nanochains for Lithium-Ion Storage. ACS Applied Nano Materials, 2019, 2, 5351-5355.	2.4	13
6013	1D Carbonâ€Based Nanocomposites for Electrochemical Energy Storage. Small, 2019, 15, e1902348.	5.2	73
6014	Towards fast and low cost Sb2S3 anode preparation: A simple vapor transport deposition process by directly using antimony sulfide ore as raw material. Scripta Materialia, 2019, 173, 75-79.	2.6	14
6015	Carbon Derived from Soft Pyrolysis of a Covalent Organic Framework as a Support for Small-Sized RuO₂ Showing Exceptionally Low Overpotential for Oxygen Evolution Reaction. ACS Omega, 2019, 4, 13465-13473.	1.6	33
6016	Encapsulating MnSe Nanoparticles Inside 3D Hierarchical Carbon Frameworks with Lithium Storage Boosted by in Situ Electrochemical Phase Transformation. ACS Applied Materials & Interfaces, 2019, 11, 33022-33032.	4.0	40
6017	Highly Stable Three-Dimensional Nickelâ€“Cobalt Hydroxide Hierarchical Heterostructures Hybridized with Carbon Nanotubes for High-Performance Energy Storage Devices. ACS Nano, 2019, 13, 11235-11248.	7.3	67
6018	Multifunctional Nano-Architecting of Si Electrode for High-Performance Lithium-Ion Battery Anode. Journal of the Electrochemical Society, 2019, 166, A2776-A2783.	1.3	6
6019	In-Situ Growing Mesoporous CuO/O-Doped g-C₃N₄ Nanospheres for Highly Enhanced Lithium Storage. ACS Applied Materials & Interfaces, 2019, 11, 32957-32968.	4.0	78
6020	Revisiting Background Signals and the Electrochemical Windows of Au, Pt, and GC Electrodes in Biological Buffers. ACS Applied Energy Materials, 2019, 2, 6808-6816.	2.5	15
6021	Exfoliated transition metal dichalcogenide nanosheets for supercapacitor and sodium ion battery applications. Royal Society Open Science, 2019, 6, 190437.	1.1	37
6022	Effect of stacking structure on lithium adsorption and diffusion in bilayer black phosphorene. Physical Review B, 2019, 100, .	1.1	11

#	Article	IF	Citations
6023	Environmental Sustainability of Liquid-Based Chemical Synthesis of Si Nanotube as Anode for Lithium-Ion Batteries. ACS Applied Nano Materials, 2019, 2, 5546-5552.	2.4	9
6024	Nanoporous TiO2/MoO2/Fe3O4 composite as anode for high-performance lithium-ion batteries. Solid State Sciences, 2019, 95, 105930.	1.5	9
6025	Achieving high energy density in a 4.5 V all nitrogen-doped graphene based lithium-ion capacitor. Journal of Materials Chemistry A, 2019, 7, 19909-19921.	5.2	65
6026	Synthesis of Hierarchical Graphene-MnO2 Nanowire Composites with Enhanced Specific Capacitance. Asian Journal of Chemistry, 2019, 31, 1709-1718.	0.1	1
6027	Mesoporous Materials for High-Performance Electrochemical Supercapacitors. , 2019, , .		4
6028	Electrospun poly(acrylonitrile-co-itaconic acid) as a porous carbon precursor for high performance supercapacitor: study of the porosity induced byin situporogen activity of itaconic acid. Nanotechnology, 2019, 30, 435401.	1.3	12
6029	Li-Ion Capacitor Integrated with Nano-network-Structured Ni/NiO/C Anode and Nitrogen-Doped Carbonized Metalâ€“Organic Framework Cathode with High Power and Long Cyclability. ACS Applied Materials & Interfaces, 2019, 11, 30694-30702.	4.0	46
6030	One-pot pyro synthesis of a nanosized-LiMn₂O₄/C cathode with enhanced lithium storage properties. RSC Advances, 2019, 9, 24030-24038.	1.7	12
6031	Pseudo-capacitance behaviour of reactively sputtered vanadium nitride electrodes deposited at different working pressures: The critical role of surface chemistry. Materials Chemistry and Physics, 2019, 236, 121820.	2.0	10
6032	In-situ synthesis of porous organic polymer on rGO for high-performance capacitive energy storage. Journal of Energy Storage, 2019, 25, 100873.	3.9	7
6033	A developed expression of chemical potential for fast deformation in nanoparticle electrodes of lithium-ion batteries. Nanoscale Research Letters, 2019, 14, 262.	3.1	0
6034	Versatile Synthesis of Vanadium(III, IV, V) Oxides@Reduced Graphene Oxide Nanocomposites and Evaluation of their Lithium and Sodium Storage Performances. Batteries and Supercaps, 2019, 2, 1016-1025.	2.4	14
6035	Cooperation of Fe ₂ O ₃ @C and Co ₃ O ₄ /C subunits enhances the cyclic stability of Fe ₂ O ₃ @C/Co ₃ O ₄ electrodes for lithiumâ€ion batteries. International Journal of Energy Research, 2019, 43, 6045-6055.	2.2	12
6036	Free-standing transition metal oxide electrode architectures for electrochemical energy storage. Journal of Materials Science, 2019, 54, 13045-13069.	1.7	20
6037	Electrochemical properties of Na0.5Bi0.5TiO3 perovskite as an anode material for sodium ion batteries. Journal of Materials Science, 2019, 54, 13236-13246.	1.7	19
6038	Ti-Doped Tunnel-Type Na₄Mn₉O₁₈ Nanoparticles as Novel Anode Materials for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 28900-28908.	4.0	23
6039	Quantitative Elucidation of the Non-Equilibrium Phase Transition in LiFePO₄ via the Intermediate Phase. Chemistry of Materials, 2019, 31, 7160-7166.	3.2	22
6040	Dual Bond Enhanced Multidimensional Constructed Composite Silicon Anode for High-Performance Lithium Ion Batteries. ACS Nano, 2019, 13, 8854-8864.	7.3	91

#	Article	IF	Citations
6041	Enhanced Electrochemical Performance of Sb2O3 as an Anode for Lithium-Ion Batteries by a Stable Cross-Linked Binder. Applied Sciences (Switzerland), 2019, 9, 2677.	1.3	59
6042	Effect of proton irradiation on anatase TiO2 nanotube anodes for lithium-ion batteries. Journal of Materials Science, 2019, 54, 13221-13235.	1.7	19
6043	Sustainable Energy Storage: Recent Trends and Developments toward Fully Organic Batteries. ChemSusChem, 2019, 12, 4093-4115.	3.6	128
6044	Approaching Durable Single-Layer Fuel Cells: Promotion of Electroactivity and Charge Separation via Nanoalloy Redox Exsolution. ACS Applied Materials & Interfaces, 2019, 11, 27924-27933.	4.0	74
6045	Design of Mo-doped cobalt sulfide hollow nanocages from zeolitic imidazolate frameworks as advanced electrodes for supercapacitors. Inorganic Chemistry Frontiers, 2019, 6, 2178-2184.	3.0	48
6046	Catalytic Surface Specificity of Ni(OH) 2 â€Decorated Pt Nanocubes for the Hydrogen Evolution Reaction in an Alkaline Electrolyte. ChemSusChem, 2019, 12, 4021-4028.	3.6	28
6047	CdS@MoS2 coreâ€“shell nanospheres: a new electrode for lithium ion batteries. Journal of Materials Science: Materials in Electronics, 2019, 30, 14456-14463.	1.1	5
6048	Joint Theoretical and Experimental Study on the Effects of the Salts in the Graphite-Based Dual-Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 18132-18141.	1.5	9
6049	Interfacial effects in supported catalysts for electrocatalysis. Journal of Materials Chemistry A, 2019, 7, 23432-23450.	5.2	94
6050	A Lithiumâ€Free Energyâ€Storage Device Based on an Alkyneâ€Substitutedâ€Porphyrin Complex. ChemSusChem, 2019, 12, 3737-3741.	3.6	24
6051	Electrochemical study of 3D hierarchical dandelion-fiber flake-like structure of Al(OH)3/MnO2 nanocomposite thin film for future supercapacitor applications. Electrochimica Acta, 2019, 319, 832-842.	2.6	14
6052	Scaling the Equivalent Oxide Thickness by Employing a TiO₂ Thin Film on a ZrO₂â€“Al₂O₃â€Based Dielectric for Further Scaling of Dynamic Random Access Memory. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900282.	1.2	9
6053	A Low-Cost Zn-Based Aqueous Supercapacitor with High Energy Density. ACS Applied Energy Materials, 2019, 2, 5835-5842.	2.5	80
6054	Highâ€Throughput Production of Zrâ€Doped Li 4 Ti 5 O 12 Modified by Mesoporous Libaf 3 Nanoparticles for Superior Lithium and Potassium Storage. Chemistry - an Asian Journal, 2019, 14, 3181-3187.	1.7	9
6055	Metalâ€Organic Frameworksâ€Derived NiS₂/CoS₂/Nâ€Doped Carbon Composites as Electrode Materials for Asymmetric Supercapacitor. ChemElectroChem, 2019, 6, 3764-3773.	1.7	35
6056	Microscopic Dynamics in an Ionic Liquid Augmented with Organic Solvents. Journal of Physical Chemistry C, 2019, 123, 19354-19361.	1.5	8
6057	Boron-doped single crystal LiNi0.6Mn0.2Co0.2O2 with improved electrochemical performance for lithium-ion batteries. Ionics, 2019, 25, 5819-5827.	1.2	29
6058	Effect of the active material type and battery geometry on the thermal behavior of lithium-ion batteries. Energy, 2019, 185, 1250-1262.	4.5	20

#	Article	IF	Citations
6059	Forescattered electron imaging of nanoparticles in scanning electron microscopy. Materials Characterization, 2019, 155, 109814.	1.9	8
6060	Development of textile-based triboelectric nanogenerators integrated with plastic metal electrodes for wearable devices. International Journal of Advanced Manufacturing Technology, 2019, 104, 2633-2644.	1.5	14
6061	Solvothermal synthesis of hierarchical Î±-NiS particles as battery-type electrode materials for hybrid supercapacitors. Journal of Alloys and Compounds, 2019, 806, 1068-1076.	2.8	28
6062	A pHâ€Tailored Anodic Deposition of Hydrous RuO 2 for Supercapacitors. ChemistrySelect, 2019, 4, 8122-8128.	0.7	7
6063	Solvothermal preparation of Ga-doped V6O13 nanowires as cathode materials for lithium-ion batteries. Ionics, 2019, 25, 4557-4565.	1.2	7
6064	A facile recycling and regeneration process for spent LiFePO4 batteries. Journal of Materials Science: Materials in Electronics, 2019, 30, 14580-14588.	1.1	36
6065	Advanced materials and technologies for hybrid supercapacitors for energy storage â€“ A review. Journal of Energy Storage, 2019, 25, 100852.	3.9	417
6066	Commercial platinum group metal-free cathodic electrocatalysts for highly performed direct methanol fuel cell applications. Journal of Power Sources, 2019, 437, 226948.	4.0	48
6067	Controllable growth of LiMn2O4 by carbohydrate-assisted combustion synthesis for high performance Li-ion batteries. Nano Energy, 2019, 64, 103936.	8.2	47
6068	Rate-independent and ultra-stable low-temperature sodium storage in pseudocapacitive TiO₂nanowires. Journal of Materials Chemistry A, 2019, 7, 19297-19304.	5.2	25
6069	Electrodeposited Stable Binderâ€Free Organic Ni(OH) 2 Flexible Nanohybrid Electrodes for Highâ€Performance Supercapacitors. Energy Technology, 2019, 7, 1900546.	1.8	5
6070	Hierarchical MoS2 Nanosheets - FeCo2O4 Nanowires on Flexible Carbon Cloth Substrate for High-Performance Flexible Supercapacitors. International Journal of Electrochemical Science, 2019, 14, 5535-5546.	0.5	8
6071	Binderâ€free carbonâ€coated nanocotton transition metal oxides integrated anodes by laser surface ablation for lithiumâ€ion batteries. Surface and Interface Analysis, 2019, 51, 874-881.	0.8	5
6072	Electrode Materials and Electrolytes for High-Rate Electrochemical Energy Systems: A Review. Theoretical and Experimental Chemistry, 2019, 55, 73-95.	0.2	10
6073	Hierarchical â€œtube-on-fiberâ€•carbon/mixed-metal selenide nanostructures for high-performance hybrid supercapacitors. Nanoscale, 2019, 11, 13996-14009.	2.8	57
6074	Single-File Diffusion of Neo-Pentane Confined in the MIL-47(V) Metalâ€“Organic Framework. Journal of Physical Chemistry C, 2019, 123, 17360-17367.	1.5	12
6075	Controllable Unzipping of Carbon Nanotubes as Advanced Pt Catalyst Supports for Oxygen Reduction. ACS Applied Energy Materials, 2019, 2, 5446-5455.	2.5	17
6076	Double-shelled microscale porous Si anodes for stable lithium-ion batteries. Journal of Power Sources, 2019, 436, 226794.	4.0	24

#	Article	IF	Citations
6077	Enhancing Lithium Insertion with Electrostatic Nanoconfinement in a Lithography Patterned Precision Cell. ACS Nano, 2019, 13, 8481-8489.	7.3	3
6078	High-Pressure Phase Transitions of Morphologically Distinct Zn₂SnO₄ Nanostructures. ACS Omega, 2019, 4, 10539-10547.	1.6	9
6079	Graphene quantum dots/graphene fiber nanochannels for osmotic power generation. Journal of Materials Chemistry A, 2019, 7, 23727-23732.	5.2	30
6080	Engineering 3D hybrid electrode composed of ceria nanoparticles embedded in nickel oxides for high-performance supercapacitors. Journal of Applied Physics, 2019, 126, 015103.	1.1	12
6081	Phase-field modeling of the coupled domain structure and dielectric breakdown evolution in a ferroelectric single crystal. Physical Chemistry Chemical Physics, 2019, 21, 16207-16212.	1.3	13
6082	Ultrafast, Facile, and Scalable Microwaveâ€Assisted Synthesis Method to Prepare Nickel Sulfide Nanosheets for High Energy Density Hybrid Capacitors. ChemNanoMat, 2019, 5, 1216-1224.	1.5	10
6083	Artificial Solid Electrolyte Interphase for Suppressing Surface Reactions and Cathode Dissolution in Aqueous Zinc Ion Batteries. ACS Energy Letters, 2019, 4, 2776-2781.	8.8	155
6084	Gate voltage controllable device based on black phosphorus/blue phosphorus heterostructure. Journal Physics D: Applied Physics, 2019, 52, 505111.	1.3	2
6085	Review Of Heat Transfer Enhancement In Energy Conversion Systems; Nanotechnology. IOP Conference Series: Earth and Environmental Science, 2019, 331, 012021.	0.2	0
6086	Molecular interaction balanced one- and two-dimensional hybrid nanoarchitectures for high-performance supercapacitors. Physical Chemistry Chemical Physics, 2019, 21, 22283-22292.	1.3	12
6087	Impact of Rigidity on Molecular Self-Assembly. Langmuir, 2019, 35, 16062-16069.	1.6	16
6088	Nanoengineering Carbon Spheres as Nanoreactors for Sustainable Energy Applications. Advanced Materials, 2019, 31, e1903886.	11.1	251
6089	Carbonâ€Based Nanocages: A New Platform for Advanced Energy Storage and Conversion. Advanced Materials, 2020, 32, e1904177.	11.1	84
6090	A New Reversible Phase Transformation of Intermetallic Ti3Sn. Materials, 2019, 12, 2484.	1.3	7
6091	Facile one-pot synthesis of hollow NiCoP nanospheres via thermal decomposition technique and its free-standing carbon composite for supercapacitor application. Journal of Energy Storage, 2019, 25, 100893.	3.9	41
6092	Effect of the Pillar Size on the Electrochemical Performance of Laser-Induced Silicon Micropillars as Anodes for Lithium-Ion Batteries. Applied Sciences (Switzerland), 2019, 9, 3623.	1.3	6
6093	Application of polyaniline and its derivatives. , 2019, , 259-272.		17
6094	In-situ removal of thick barrier layer in nanoporous anodic alumina by constant current Re-anodization. Surface and Coatings Technology, 2019, 380, 125039.	2.2	10

#	Article	IF	Citations
6095	Surface chemistry and electrochemistry of an ionic liquid and lithium on Li4Ti5O12(111)â€"A model study of the anode|electrolyte interface. Journal of Chemical Physics, 2019, 151, 134704.	1.2	4
6096	Boosting the sodium storage behaviors of carbon materials in ether-based electrolyte through the artificial manipulation of microstructure. Nano Energy, 2019, 66, 104177.	8.2	20
6097	Porous nanocubes La0.9Co0.8Ni0.2O3â^'x as efficient catalyst for Li-O2 batteries. Electrochimica Acta, 2019, 327, 135017.	2.6	15
6098	Understanding the mechanism of cycling degradation and novel strategy to stabilize the cycling performance of graphite/LiCoO2 battery at high voltage. Journal of Electroanalytical Chemistry, 2019, 851, 113411.	1.9	8
6099	Electrochemical transformation method for the preparation of novel 3D hybrid porous CoOOH/Co(OH)2 composites with excellent pseudocapacitance performance. Journal of Power Sources, 2019, 443, 227278.	4.0	27
6100	Periodic table of elements and nanotechnology. Mendeleev Communications, 2019, 29, 479-485.	0.6	15
6101	ZnS nanoparticles as the electrode materials for high-performance supercapacitors. Solid State Ionics, 2019, 343, 115074.	1.3	43
6103	Trifluoropropylene Carbonateâ€Driven Interface Regulation Enabling Greatly Enhanced Lithium Storage Durability of Siliconâ€Based Anodes. Advanced Functional Materials, 2019, 29, 1906548.	7.8	49
6104	A single energy conversion and storage cell of nickel-doped cobalt oxide under UV and visible light illumination. Electrochimica Acta, 2019, 328, 135120.	2.6	9
6105	FP613PRE-DIALYSIS LEFT ATRIAL FUNCTION ASSESSED BY TWO-DIMENSIONAL SPECKLE TRACKING ECHOCARDIOGRAPHY AS A PREDICTOR OF UPCOMING HEART FAILURE IN HEMODIALYSIS PATIENTS. Nephrology Dialysis Transplantation, 2019, 34, .	0.4	0
6106	Progress in 3D electrode microstructure modelling for fuel cells and batteries: transport and electrochemical performance. Progress in Energy, 2019, 1, 012003.	4.6	21
6107	Core-shell structure LiNi1/3Mn1/3Co1/3O2@ ultrathin Î´-MnO2 nanoflakes cathode material with high electrochemical performance for lithium-ion batteries. Ionics, 2019, 25, 5249-5258.	1.2	3
6108	C/g-C3N4 hybrid nanosheets obtained by gaseous stripping to boost photocatalytic hydrogen evolution performance. Journal of Solid State Chemistry, 2019, 279, 120959.	1.4	8
6109	Sustainable elastomer of triazolinedione-modified Eucommia ulmoides gum with enhanced elasticity and shape memory capability. Polymer, 2019, 184, 121904.	1.8	28
6110	Variable Phase and Electrochemical Capacitance of Electrospun MnOx Fibers Via Controlled Calcination. MRS Advances, 2019, 4, 2383-2390.	0.5	2
6111	In situ observation of hydride nucleation and selective growth in magnesium thin-films with environmental transmission electron microscopy. International Journal of Hydrogen Energy, 2019, 44, 32112-32123.	3.8	11
6112	Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates. ACS Energy Letters, 2019, 4, 2805-2812.	8.8	88
6113	Glycineâ€Induced Electrodeposition of Nanostructured Cobalt Hydroxide: A Bifunctional Catalyst for Overall Water Splitting. ChemSusChem, 2019, 12, 5300-5309.	3.6	6

#	Article	IF	Citations
6114	Polyoxometalate-based materials for sustainable and clean energy conversion and storage. EnergyChem, 2019, 1, 100021.	10.1	183
6115	A Novel Strategy for Lithium-Ion Battery Anode with Enhanced Cycling Performance: Silicon Particles Enclosed in Shell-Like Mxenes/CNTs Nanostructure. , 2019, , .		1
6116	Improving anode performances of lithium-ion capacitors employing carbonâ€“Si composites. Rare Metals, 2019, 38, 1113-1123.	3.6	65
6117	A Polyanilineâ€Based Redoxâ€Active Composite Gel Electrolyte with Photoâ€Electric and Electrochromic Properties. ChemElectroChem, 2019, 6, 5888-5895.	1.7	9
6118	Crystalâ€State Photochromism and Dualâ€Mode Mechanochromism of an Organic Molecule with Fluorescence, Roomâ€Temperature Phosphorescence, and Delayed Fluorescence. Angewandte Chemie, 2019, 131, 16597-16602.	1.6	25
6119	Porous silver-coated pNIPAM-co-AAc hydrogel nanocapsules. Beilstein Journal of Nanotechnology, 2019, 10, 1973-1982.	1.5	5
6120	Synthesis and Study of Zirconium Doped Lithium Titanate Ceramics. Materials Today: Proceedings, 2019, 18, 1459-1464.	0.9	1
6122	Exploiting the Condensation Reactions of Acetophenone to Engineer Carbonâ€Encapsulated Nb₂O₅ Nanocrystals for Highâ€Performance Li and Na Energy Storage Systems. Advanced Energy Materials, 2019, 9, 1902813.	10.2	49
6123	Heightened Integration of POMâ€based Metalâ€“Organic Frameworks with Functionalized Singleâ€Walled Carbon Nanotubes for Superior Energy Storage. Chemistry - an Asian Journal, 2019, 14, 3424-3430.	1.7	21
6124	Targeted Construction of Amorphous MoS_x with an Inherent Chain Molecular Structure for Improved Pseudocapacitive Lithiumâ€Ion Response. Chemistry - A European Journal, 2019, 25, 15173-15181.	1.7	5
6125	Research and implementation of a non-supporting 3D printing method based on 5-axis dynamic slice algorithm. Robotics and Computer-Integrated Manufacturing, 2019, 57, 496-505.	6.1	55
6126	Construction of NiCo₂O₄ nanosheet-decorated leaf-like Co₃O₄ nanoarrays from metalâ€“organic framework for high-performance hybrid supercapacitors. Dalton Transactions, 2019, 48, 14156-14163.	1.6	72
6127	Electrolyte selection for supercapacitive devices: a critical review. Nanoscale Advances, 2019, 1, 3807-3835.	2.2	702
6128	Structure, chemistry and physicochemistry of lignin for material functionalization. SN Applied Sciences, 2019, 1, 1.	1.5	28
6129	Hot Spot Visualization Analysis of Energy Storage Technology. , 2019, , .		0
6130	Lateral-aligned sulfonated carbon-nanotubes/Nafion composite membranes with high proton conductivity and improved mechanical properties. Journal of Membrane Science, 2019, 591, 117356.	4.1	33
6131	On-chip micro/nano devices for energy conversion and storage. Nano Today, 2019, 28, 100764.	6.2	33
6132	Untapped Potential of Polymorph MoS₂: Tuned Cationic Intercalation for High-Performance Symmetric Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 33955-33965.	4.0	80

#	Article	IF	Citations
6133	Cu₄SnS₄-Rich Nanomaterials for Thin-Film Lithium Batteries with Enhanced Conversion Reaction. ACS Nano, 2019, 13, 10671-10681.	7.3	26
6134	Growth behavior, work function, and band gap tuning of nanocrystalline LiMn2O4 thin films. Applied Physics Letters, 2019, 115, 093901.	1.5	5
6135	Highlighting the Importance of Full-Cell Testing for High Performance Anode Materials Comprising Li Alloying Nanowires. Journal of the Electrochemical Society, 2019, 166, A2784-A2790.	1.3	4
6136	One-Step Carbothermal Synthesis of Robust CdS@BPC Photocatalysts in the Presence of Biomass Porous Carbons. ACS Sustainable Chemistry and Engineering, 2019, 7, 16835-16842.	3.2	31
6137	Two-Dimensional T-NiSe₂ as a Promising Anode Material for Potassium-Ion Batteries with Low Average Voltage, High Ionic Conductivity, and Superior Carrier Mobility. ACS Applied Materials & Interfaces, 2019, 11, 35661-35666.	4.0	49
6138	Solid waste-derived carbon as anode for high performance lithium-ion batteries. Diamond and Related Materials, 2019, 98, 107517.	1.8	21
6139	Reduced graphene oxide/CoS₂ porous nanoparticle hybrid electrode material for supercapacitor application. RSC Advances, 2019, 9, 26637-26645.	1.7	23
6140	Mixed phase nanoâ€“CdS supported on activated biomass carbon as efficient visible lightâ€“driven photocatalysts. Environmental Science and Pollution Research, 2019, 26, 31055-31061.	2.7	9
6141	The Performance and Exhaust Emissions of a Diesel Engine Fuelled with Calophyllum inophyllumâ€”Palm Biodiesel. Processes, 2019, 7, 597.	1.3	17
6142	Flower-like aluminium nitride nanostructures deposited by rf magnetron sputtering on superhard rhodium boride films. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	2
6143	Improving of the battery performance of Dy-substituted LiCoO2 and investigating the mechanism of the cells. Journal of Solid State Electrochemistry, 2019, 23, 2881-2895.	1.2	5
6144	Facile Universal Mass Production Strategy to Sub-3 nm Monodisperse Nanocrystals of Transition-Metal Oxides and Their Excellent Cyclability for Li-Ion Storage. ACS Applied Materials & Interfaces, 2019, 11, 37867-37874.	4.0	23
6145	Nanocomposite membrane electrolyte of polyaminobenzene sulfonic acid grafted single walled carbon nanotubes with sulfonated polyether ether ketone for direct methanol fuel cell. International Journal of Hydrogen Energy, 2019, 44, 27564-27574.	3.8	19
6146	NiCo2O4/MWCNT/PANI coral-like nanostructured composite for electrochemical energy-storage applications. Journal of Electroanalytical Chemistry, 2019, 851, 113481.	1.9	18
6147	Charge storage mechanisms of cobalt hydroxide thin film in ionic liquid and KOH electrolytes for asymmetric supercapacitors with graphene aerogel. Electrochimica Acta, 2019, 324, 134854.	2.6	17
6148	Eco-Friendly, Direct Deposition of Metal Nanoparticles on Graphite for Electrochemical Energy Conversion and Storage. ACS Applied Materials & Interfaces, 2019, 11, 36525-36534.	4.0	23
6149	Altering polythiophene derivative substrates to control the electrodeposition morphology of Au particles toward ultrafine nanoparticles. Chemical Communications, 2019, 55, 12088-12091.	2.2	2
6150	A concise review on the advancement of anode materials for Li-ion batteries. Materials Today: Proceedings, 2019, 19, 726-730.	0.9	6

#	Article	IF	Citations
6151	Synthesis, characterization, crystal structure, and electrochemical study of zinc(II) metal-organic framework. Inorganic and Nano-Metal Chemistry, 2019, 49, 375-384.	0.9	11
6152	Production of iron oxide and nickel oxide nanostructural particles, investigation of the supercapacitor and photocatalytic properties. Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 725-731.	0.4	7
6153	Study on Fe-doped Activation Carbon-based Supercapacitor at 4V. International Journal of Electrochemical Science, 2019, , 8371-8381.	0.5	2
6154	Facile one-pot synthesis of Ge/TiO₂ nanocomposite structures with improved electrochemical performance. Nanoscale, 2019, 11, 17415-17424.	2.8	18
6156	Combined effect of organic-inorganic heterostructure to enhance electrochemical capacitance. Materials Chemistry and Physics, 2019, 238, 121943.	2.0	6
6157	Nanowires for Electrochemical Energy Storage. Chemical Reviews, 2019, 119, 11042-11109.	23.0	309
6158	Cathodic electrodeposition of porous MnO₂ film as binder-free cathode for high performance rechargeable Zinc-ion battery. Functional Materials Letters, 2019, 12, 1950073.	0.7	11
6159	Granular molybdenum dioxide precipitated on N-doped carbon nanorods with multistage architecture for ultralong-life sodium-ion batteries. Electrochimica Acta, 2019, 325, 134903.	2.6	19
6160	Nanosized Lithium-Rich Cobalt Oxide Particles and Their Transformation to Lithium Cobalt Oxide Cathodes with Optimized High-Rate Morphology. Chemistry of Materials, 2019, 31, 8685-8694.	3.2	10
6161	One Step Synthesis of a Gold/Ordered Mesoporous Carbon Composite Using a Hard Template Method for Electrocatalytic Oxidation of Methanol and Colorimetric Determination of Glutathione. ACS Omega, 2019, 4, 16360-16371.	1.6	13
6162	Quantifying the 3D Distribution of Pd Nanocatalysts Supported on Mesoporous Carbon for Furfural Hydrogenation. Microscopy and Microanalysis, 2019, 25, 426-427.	0.2	0
6163	MoP-protected Mo oxide nanotube arrays for long-term stable supercapacitors. Applied Materials Today, 2019, 17, 227-235.	2.3	17
6164	TiO2 nanorods anchor on reduced graphene oxide (R-TiO2/rGO) composite as anode for high performance lithium-ion batteries. Applied Surface Science, 2019, 497, 143553.	3.1	46
6165	Preparation, formulation and deposition of mica flake supported cobalt oxide for nanostructured lithium ion battery anodes. Advanced Powder Technology, 2019, 30, 3127-3134.	2.0	5
6166	Supercapacitor application of 3-(3â€²-hydroxypropyl)-1,2-dimethylimidazolium chloride electrolyte using copper oxide synthesized by chemical bath deposition method. Materials Today: Proceedings, 2019, 9, 184-192.	0.9	1
6167	Insights into Water Interaction at the Interface of Nitrogen-Functionalized Hydrothermal Carbons. Journal of Physical Chemistry C, 2019, 123, 25146-25156.	1.5	6
6168	Nanotechnology Facets of the Periodic Table of Elements. ACS Nano, 2019, 13, 10879-10886.	7.3	26
6169	Vanadium-based nanowires for sodium-ion batteries. Nanotechnology, 2019, 30, 192001.	1.3	10

#	Article	IF	Citations
6170	Laser-induced periodic surface structures on ZnO thin film for high response NO2 detection. Applied Surface Science, 2019, 476, 569-575.	3.1	30
6171	Three-dimensional Ni/MnO2 nanocylinder array with high capacitance for supercapacitors. Results in Physics, 2019, 12, 1411-1416.	2.0	10
6172	Template assisted preparation of high surface area macroporous supports with uniform and tunable nanocrystal loadings. Nanoscale, 2019, 11, 1937-1948.	2.8	5
6173	Optimization of iron-doped Ni₃S₂ nanosheets by disorder engineering for oxygen evolution reaction. Nanoscale, 2019, 11, 2355-2365.	2.8	41
6174	Green electrode processing using a seaweed-derived mesoporous carbon additive and binder for LiMn₂O₄ and LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂ lithium ion battery electrodes. Sustainable Energy and Fuels, 2019, 3, 450-456.	2.5	11
6175	Enhanced electrochemical performance via PPy encapsulated 3D flower-like bismuth molybdate nanoplates for high-performance supercapacitors. Applied Surface Science, 2019, 478, 846-856.	3.1	20
6176	Ultrathin, Wrinkled, Vertically Aligned Co(OH)₂ Nanosheets/Ag Nanowires Hybrid Network for Flexible Transparent Supercapacitor with High Performance. ACS Applied Materials & Interfaces, 2019, 11, 8992-9001.	4.0	100
6177	Review of supercapacitors: Materials and devices. Journal of Energy Storage, 2019, 21, 801-825.	3.9	1,268
6178	NiGa2O4/rGO Composite as Long-Cycle-Life Anode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 8025-8031.	4.0	18
6179	N-doped TiO2/rGO hybrids as superior Li-ion battery anodes with enhanced Li-ions storage capacity. Journal of Alloys and Compounds, 2019, 784, 165-172.	2.8	27
6180	Hierarchical void structured Si/PANi/C hybrid anode material for high-performance lithium-ion batteries. Electrochimica Acta, 2019, 300, 341-348.	2.6	34
6181	Iron oxide-based nanomaterials for supercapacitors. Nanotechnology, 2019, 30, 204002.	1.3	47
6182	Nanoscale origins of super-capacitance phenomena. Journal of Power Sources, 2019, 414, 420-434.	4.0	48
6183	Biogenic Hematite from Bacteria: Facile Synthesis of Secondary Nanoclusters for Lithium Storage Capacity. ACS Applied Materials & Interfaces, 2019, 11, 6948-6957.	4.0	9
6184	Novel ternary transition metal oxide solid solution: mesoporous Niâ€“Mnâ€“Coâ€“O nanowire arrays as an integrated anode for high-power lithium-ion batteries. Dalton Transactions, 2019, 48, 2741-2749.	1.6	18
6185	Novel tape-cast SiOC-based porous ceramic electrode materials for potential application in bioelectrochemical systems. Journal of Materials Science, 2019, 54, 6471-6487.	1.7	12
6186	Au nanocrystals decorated TiO2 nanotube arrays as anode material for lithium ion batteries. Applied Surface Science, 2019, 476, 948-958.	3.1	37
6187	Fabrication and characterization of dinickel orthosilicate nanosheets as high performance anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2019, 785, 80-88.	2.8	2

#	Article	IF	Citations
6188	Block copolymerâ€“based porous carbon fibers. Science Advances, 2019, 5, eaau6852.	4.7	201
6189	A hydrothermal carbonization process for the preparation of activated carbons from hemp straw: an efficient electrode material for supercapacitor application. Ionics, 2019, 25, 3299-3307.	1.2	27
6190	Fabrication of an Advanced Asymmetric Supercapacitor Based on Three-Dimensional Copperâ€“Nickelâ€“Ceriumâ€“Cobalt Quaternary Oxide and GNP for Energy Storage Application. ACS Applied Electronic Materials, 2019, 1, 189-197.	2.0	66
6191	Flexibility defines structure in crystals of amphiphilic DNA nanostars. Journal of Physics Condensed Matter, 2019, 31, 074003.	0.7	24
6192	3D flower-like binary nickel cobalt oxide decorated coiled carbon nanotubes directly grown on nickel nanocones and binder-free hydrothermal carbons for advanced asymmetric supercapacitors. Nanoscale, 2019, 11, 2901-2915.	2.8	66
6193	Synthesis and X-ray absorption spectroscopy of potassium transition metal fluoride nanocrystals. CrystEngComm, 2019, 21, 135-144.	1.3	4
6194	Selfâ€Organized Arrays of SnO₂ Microplates with Photocatalytic and Antimicrobial Properties. European Journal of Inorganic Chemistry, 2019, 2019, 3171-3179.	1.0	4
6195	Hollow MoS2/rGO composites as high-performance anode materials for lithium-ion batteries. Ionics, 2019, 25, 4659-4666.	1.2	12
6196	In situ fabrication of nitrogen doped porous carbon nanorods derived from metal-organic frameworks and its application as supercapacitor electrodes. Journal of Solid State Chemistry, 2019, 277, 100-106.	1.4	21
6197	The influence of Li2O incorporation on the electrochemical properties of Li4Ti5O12 thin film electrodes. Journal of Alloys and Compounds, 2019, 801, 550-557.	2.8	9
6198	Hierarchical Iron-Doped Nickel Diselenide Hollow Spheres for Efficient Oxygen Evolution Electrocatalysis. ACS Applied Energy Materials, 2019, 2, 4737-4744.	2.5	33
6199	In Situ Synthesis of Wellâ€Ordered Magnetic Palladium Catalyst Triggered by Supramolecular Chaotropic Effect of Boron Cluster. ChemNanoMat, 2019, 5, 1209-1215.	1.5	3
6200	A universal graphene oxide protective umbrella to achieve electrode surface engineering via spraying technique. Ceramics International, 2019, 45, 19567-19571.	2.3	0
6201	Carbon coated porous silicon flakes with high initial coulombic efficiency and long-term cycling stability for lithium ion batteries. Sustainable Energy and Fuels, 2019, 3, 2361-2365.	2.5	7
6202	Polypyrrole coated niobium disulfide nanowires as high performance electrocatalysts for hydrogen evolution reaction. Nanotechnology, 2019, 30, 405601.	1.3	7
6203	In Situ Transmission Electron Microscopy Studies of Electrochemical Reaction Mechanisms in Rechargeable Batteries. Electrochemical Energy Reviews, 2019, 2, 467-491.	13.1	30
6204	Hydrothermal synthesis of nitrogen, sulfur co-doped graphene and its high performance in supercapacitor and oxygen reduction reaction. Microporous and Mesoporous Materials, 2019, 290, 109556.	2.2	44
6205	Porous LiMn2O4 Nano-Microspheres as Durable High Power Cathode Materials for Lithium Ion Batteries. Russian Journal of Electrochemistry, 2019, 55, 351-357.	0.3	3

#	Article	IF	Citations
6206	Palm Spathe Derived N-Doped Carbon Nanosheets as a High Performance Electrode for Li-Ion Batteries and Supercapacitors. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	19
6207	Graphene and carbon nanotube-based solar cells. , 2019, , 603-660.		2
6208	Nanostructured Pd/Sb2O3: A new and promising fuel cell electrocatalyst and non-enzymatic amperometric sensor for ethanol. Applied Surface Science, 2019, 491, 9-15.	3.1	20
6209	Free-standing macro-porous nitrogen doped graphene film for high energy density supercapacitor. Electrochimica Acta, 2019, 318, 865-874.	2.6	34
6210	Few-walled carbon nanotube-enhanced activated carbon supercapacitor performance in organic electrolyte at 4 V. RSC Advances, 2019, 9, 18863-18867.	1.7	8
6211	Direct Growth of CNTs@CoS_xSe_{2(1â^'x)} on Carbon Cloth for Overall Water Splitting. ChemSusChem, 2019, 12, 3792-3800.	3.6	44
6212	High-performance silicon-carbon anode material via aerosol spray drying and magnesiothermic reduction. Nano Energy, 2019, 63, 103845.	8.2	57
6213	A solution-processed binary composite as a cathode material in lithiumâ€“sulfur batteries. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	4
6214	Synthesis and theoretical calculations of N-doped ZnCo2O4 anode for lithium-ion anode via gradient pressure-induced processes and theoretical calculations. Journal of Alloys and Compounds, 2019, 797, 978-985.	2.8	8
6215	Effective Promotion of Oxygen Reduction Reaction by in Situ Formation of Nanostructured Catalyst. ACS Catalysis, 2019, 9, 7137-7142.	5.5	42
6216	Electrochemical Properties of Silicon/C Composite with Porous Carbon Designed Using Î±-Cyclodextrin and Surfactant. Electrochemistry, 2019, 87, 229-233.	0.6	0
6217	Facile Synthesis of Peapodâ€Like Cu₃Ge/Ge@C as a Highâ€Capacity and Longâ€Life Anode for Liâ€Ion Batteries. Chemistry - A European Journal, 2019, 25, 11486-11493.	1.7	12
6218	Towards high energy density lithium battery anodes: silicon and lithium. Chemical Science, 2019, 10, 7132-7148.	3.7	134
6219	A polyoxometalate-based polymer electrolyte with an improved electrode interface and ion conductivity for high-safety all-solid-state batteries. Journal of Materials Chemistry A, 2019, 7, 15924-15932.	5.2	27
6220	Solvothermal sulfurization in a deep eutectic solvent: a novel route to synthesize Co-doped Ni₃S₂ nanosheets supported on Ni foam as active materials for ultrahigh-performance pseudocapacitors. Sustainable Energy and Fuels, 2019, 3, 1957-1965.	2.5	20
6221	Tuning the electronic properties of epitaxial strained CaFeO3â^'Î´ thin films. Applied Physics Letters, 2019, 114, 221907.	1.5	6
6222	In Operando analysis of the charge storage mechanism in a conversion ZnCo₂O₄ anode and the application in flexible Li-ion batteries. Inorganic Chemistry Frontiers, 2019, 6, 1861-1872.	3.0	10
6223	In Situ Transmission Electron Microscopy for Energy Materials and Devices. Advanced Materials, 2019, 31, e1900608.	11.1	95

#	Article	IF	Citations
6224	One-dimensional mesoporous Co3O4 tubules for enhanced performance supercapacitor and enzymeless glucose sensing. Ionics, 2019, 25, 5445-5458.	1.2	9
6225	Infinitesimal sulfur fusion yields quasi-metallic bulk silicon for stable and fast energy storage. Nature Communications, 2019, 10, 2351.	5.8	57
6226	Rifampicin conjugated silver nanoparticles: a new arena for development of antibiofilm potential against methicillin resistant Staphylococcus aureus and Klebsiella pneumoniae . International Journal of Nanomedicine, 2019, Volume 14, 3983-3993.	3.3	43
6227	FeS2@Porous octahedral carbon derived from metal-organic framework as a stable and high capacity anode for lithium-ion batteries. Electrochimica Acta, 2019, 318, 673-682.	2.6	47
6228	Atomic-scale combination of germanium-zinc nanofibers for structural and electrochemical evolution. Nature Communications, 2019, 10, 2364.	5.8	44
6229	Bi₂S₃ nanorod-stacked hollow microtubes self-assembled from bismuth-based metalâ€“organic frameworks as advanced negative electrodes for hybrid supercapacitors. Dalton Transactions, 2019, 48, 9057-9061.	1.6	19
6230	An interesting charge accumulation process of Bi12O15Cl6. Journal of Electroanalytical Chemistry, 2019, 846, 113169.	1.9	12
6231	Wrinkled Carbon-Coated NiCo2O4 Nanoclusters Constructed by Self-Encapsulation of Cellulose Nanonetwork for Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 10840-10846.	3.2	19
6232	Self-Assembled Porous-Silica within N-Doped Carbon Nanofibers as Ultra-flexible Anodes for Soft Lithium Batteries. IScience, 2019, 16, 122-132.	1.9	31
6233	Chemically encoded self-organized quantum chain supracrystals with exceptional charge and ion transport properties. Nano Energy, 2019, 62, 764-771.	8.2	20
6234	Cooperation in Cu-MOF-74-Derived Cuâ€“Cu2Oâ€“C Nanocomposites To Enable Efficient Visible-Light-Initiated Phenylacetylene Coupling. Inorganic Chemistry, 2019, 58, 7997-8002.	1.9	40
6235	Earth-abundant transition metal and metal oxide nanomaterials: Synthesis and electrochemical applications. Progress in Materials Science, 2019, 106, 100574.	16.0	184
6236	Monoâ€Active Bimetallic Oxide Co₂AlO₄ with Yolkâ€Shell Structure as a Superior Lithiumâ€Storage Material. ChemElectroChem, 2019, 6, 3298-3302.	1.7	8
6237	Evaluation Framework for Detecting Manipulated Smartphone Data. SAIEE Africa Research Journal, 2019, 110, 67-76.	1.1	15
6238	Enhancing the performance of germanium nanowire anodes for Li-ion batteries by direct growth on textured copper. Chemical Communications, 2019, 55, 7780-7783.	2.2	23
6239	Fully reversible lithium storage of tin oxide enabled by self-doping and partial amorphization. Nanoscale, 2019, 11, 12915-12923.	2.8	12
6240	Enhanced Electrochemical Performances of Cu/Cu_xO-Composite-Decorated LiFePO₄ through a Facile Magnetron Sputtering. ACS Applied Energy Materials, 2019, 2, 4652-4663.	2.5	8
6241	High-performance silicon diphosphide/nanocarbon composite anode for Li-ion batteries: Role of chemical bonding and interfaces in the establishment of cycling stability. Journal of Power Sources, 2019, 434, 226759.	4.0	17

#	Article	IF	Citations
6242	Maize-like ionic liquid@polyaniline nanocomposites for high performance supercapacitor. E-Polymers, 2019, 19, 313-322.	1.3	8
6243	Hierarchical porous MnCo₂O₄ yolkâ€“shell microspheres from MOFs as secondary nanomaterials for high power lithium ion batteries. Dalton Transactions, 2019, 48, 9205-9213.	1.6	40
6244	Synthesis of Metallic Nanocrystals: From Noble Metals to Base Metals. Materials, 2019, 12, 1497.	1.3	14
6245	Sustainable Separators for Highâ€Performance Lithium Ion Batteries Enabled by Chemical Modifications. Advanced Functional Materials, 2019, 29, 1902023.	7.8	50
6246	Heterostructures in two-dimensional colloidal metal chalcogenides: Synthetic fundamentals and applications. Nano Research, 2019, 12, 1750-1769.	5.8	33
6247	Nitrogen and oxygen co-doped porous carbon nanosheets as high-rate and long-lifetime anode materials for high-performance Li-ion capacitors. Carbon, 2019, 151, 28-35.	5.4	74
6248	Synthesis of ZnS/C Composites by Metalâ€Organic Framework as Highâ€Performance Lithiumâ€Ion Batteries. Crystal Research and Technology, 2019, 54, 1800281.	0.6	13
6249	PEDOT:PSS coated CuO nanowire arrays grown on Cu foam for high-performance supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2019, 30, 10953-10960.	1.1	18
6250	Synthesis by Thermal Decomposition of Two Iron Hydroxyfluorides: Structural Effects of Li Insertion. Chemistry of Materials, 2019, 31, 4246-4257.	3.2	16
6251	MnIII-enriched Î±-MnO2 nanowires as efficient bifunctional oxygen catalysts for rechargeable Zn-air batteries. Energy Storage Materials, 2019, 23, 252-260.	9.5	80
6252	Benzoic acid-assisted substrate-free synthesis of ultrathin nanosheets assembled two-dimensional porous Co3O4 thin sheets with 3D hierarchical micro-/nano-structures and enhanced performance as battery-type materials for supercapacitors. Electrochimica Acta, 2019, 313, 194-204.	2.6	93
6253	Ultrathin NiO confined within hollow carbon sphere for efficient electrochemical energy storage. Journal of Alloys and Compounds, 2019, 797, 702-709.	2.8	14
6254	Induced nanoscale roughness of current collectors enhances lithium ion battery performances. Journal of Power Sources, 2019, 430, 169-174.	4.0	12
6255	Enhanced pseudocapacitive energy storage properties of Nb 2 O 5 /C coreâ€shell structures with the surface modification. International Journal of Energy Research, 2019, 43, 4359-4369.	2.2	8
6256	Charge Transfer and Storage of an Electrochemical Cell and Its Nano Effects. , 2019, , 29-87.		0
6257	Gel-assisted synthesis of Cu Co S nanosheets for lithium-ion batteries. Applied Surface Science, 2019, 488, 537-545.	3.1	7
6258	High-Performance Hybridized Composited-Based Piezoelectric and Triboelectric Nanogenerators Based on BaTiO₃/PDMS Composite Film Modified with Ti_{0.8}O₂ Nanosheets and Silver Nanopowders Cofillers. ACS Applied Energy Materials, 2019, 2, 3840-3850.	2.5	91
6259	The effect of nanoscale architecture on ionic diffusion in rGo/aramid nanofiber structural electrodes. Journal of Applied Physics, 2019, 125, .	1.1	12

#	Article	IF	Citations
6260	Wellâ€Aligned Hierarchical Grapheneâ€Based Electrodes for Pseudocapacitors with Outstanding Lowâ€Temperature Stability. ChemElectroChem, 2019, 6, 2788-2795.	1.7	11
6261	Hydrothermal synthesis of uniform tin oxide nanoparticles on reduced activated graphene oxide as anode material for lithium-ion batteries. Journal of Electroanalytical Chemistry, 2019, 845, 6-12.	1.9	7
6262	Direct growth of nickel-cobalt oxide nanosheet arrays on carbon nanotubes integrated with binder-free hydrothermal carbons for fabrication of high performance asymmetric supercapacitors. Composites Part B: Engineering, 2019, 172, 41-53.	5.9	59
6263	Carbon-coated MnCo2O4 nanowire as bifunctional oxygen catalysts for rechargeable Zn-air batteries. Journal of Power Sources, 2019, 430, 25-31.	4.0	68
6264	Electrochemical behavior of a composite material containing 3D-structured diatom biosilica. Algal Research, 2019, 41, 101538.	2.4	30
6265	Facile synthesis of interconnected carbon network decorated with Co3O4 nanoparticles for potential supercapacitor applications. Applied Surface Science, 2019, 487, 442-451.	3.1	58
6266	Carbon Nanotube Energy Applications. , 2019, , 695-728.		4
6267	Diblock copolymers consisting of a redox polymer block based on a stable radical linked to an electrically conducting polymer block as cathode materials for organic radical batteries. Polymer Chemistry, 2019, 10, 2570-2578.	1.9	11
6268	Nanostructured electrically conductive hydrogels obtained via ultrafast laser processing and self-assembly. Nanoscale, 2019, 11, 9176-9184.	2.8	31
6269	Bimetal phosphide Ni1.4Co0.6P nanoparticle/carbon@ nitrogen-doped graphene network as high-performance anode materials for lithium-ion batteries. Applied Surface Science, 2019, 485, 413-422.	3.1	17
6270	Formation of ultra-small Mn3O4 nanoparticles trapped in nanochannels of hollow carbon spheres by nanoconfinement with excellent supercapacitor performance. International Journal of Hydrogen Energy, 2019, 44, 13675-13683.	3.8	17
6271	Polydopamine-Modified Nanochannels in Vertically Aligned Carbon Nanotube Arrays for Controllable Molecule Transport. ACS Applied Nano Materials, 2019, 2, 3271-3279.	2.4	14
6272	Preinserted Li metal porous carbon nanotubes with high Coulombic efficiency for lithium-ion battery anodes. Chemical Engineering Journal, 2019, 373, 78-85.	6.6	19
6273	Nano silicon encapsulated in modified copper as an anode for high performance lithium ion battery. Applied Surface Science, 2019, 481, 307-312.	3.1	10
6274	Photon-Mediated Thermoelectric and Heat Currents through a Resonant Quantum Wire-Cavity System. Energies, 2019, 12, 1082.	1.6	7
6275	Oxygen vacancy-enriched MoO_{3â^'x} nanobelts for asymmetric supercapacitors with excellent room/low temperature performance. Journal of Materials Chemistry A, 2019, 7, 13205-13214.	5.2	92
6276	Nickel Oxide Nanoparticles Supported on Graphitized Carbon for Ethanol Oxidation in NaOH Solution. Journal of Cluster Science, 2019, 30, 1003-1016.	1.7	3
6277	Ionized aromatization approach to charged porous polymers as exceptional absorbents. Polymer Chemistry, 2019, 10, 2792-2800.	1.9	10

#	Article	IF	Citations
6278	Structural and electrochemical studies of microwave sintered nanocomposite electrolytes for solid oxide fuel cells. International Journal of Hydrogen Energy, 2019, 44, 10964-10970.	3.8	8
6279	Highly compressible zinc-ion batteries with stable performance. Journal of Materials Chemistry A, 2019, 7, 11734-11741.	5.2	53
6280	Facile One-Pot Synthesis of LiMnO2 Nanowire-Graphene Nanoplatelet Composites and Their Applications in Battery-Like Electrodes for High Performance Electrochemical Capacitors. Journal of Electronic Materials, 2019, 48, 4240-4247.	1.0	2
6281	Brownian dynamics of the self-assembly of complex nanostructures in the field of quasi-resonant laser radiation. Photonics and Nanostructures - Fundamentals and Applications, 2019, 35, 100707.	1.0	3
6282	Molecular structure formation as function of the catalytic process during the simultaneous twin polymerization of a hexadienyloxy-functionalized twin monomer with 2,2â€²-spirobi[4H-1,3,2-benzodioxasiline]. Polymer, 2019, 173, 215-225.	1.8	2
6283	An overview on the recent developments in polyanilineâ€based supercapacitors. Polymers for Advanced Technologies, 2019, 30, 1902-1921.	1.6	87
6284	Effect of activating agents on the structure and capacitance performance of tofu derived porous carbon. Journal of Materials Science: Materials in Electronics, 2019, 30, 10274-10283.	1.1	10
6285	Surface-engineered mesoporous silicon microparticles as high-Coulombic-efficiency anodes for lithium-ion batteries. Nano Energy, 2019, 61, 404-410.	8.2	134
6286	Electrochemical performance at sputter-deposited nanocarbon film with different surface nitrogen-containing groups. Nanoscale, 2019, 11, 10239-10246.	2.8	10
6287	Facile high yield synthesis of MgCo2O4 and investigation of its role as anode material for lithium ion batteries. Ceramics International, 2019, 45, 14775-14782.	2.3	20
6288	Electrochemical investigations of Nb2O5/carbon materials from filter paper, microfibrillated and bacterial celluloses by sustainable reductive mineralization. Electrochimica Acta, 2019, 313, 478-487.	2.6	6
6289	B₃S monolayer: prediction of a high-performance anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 12706-12712.	5.2	59
6290	Two-Dimensional Cr-Doped MoO2.5(OH)0.5 Nanosheets: A Promising Anode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 13405-13415.	4.0	10
6291	Visualized Pulverization via Ex Situ Analyses: Nickel Sulfide Anode Caged in a Hierarchical Carbon. Journal of the Electrochemical Society, 2019, 166, A838-A847.	1.3	9
6292	Catalytic Carbonization of Acenaphthene for the Preparation of Ordered Mesoporous Carbon CMK-1 toward Application as Electrochemical Double-layer Capacitor Electrode with Ionic Liquid Electrolyte. Chemistry Letters, 2019, 48, 521-524.	0.7	1
6293	Electromagnetic interference shielding effectiveness and skin depth of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 1 percolation threshold. Polymer International, 2019, 68, 1194-1203.	1.6	26
6294	Giant electrical energy storage density in the P(VDF-TrFE)â€“graphene oxide composite papers with quasi-two-dimensional ferroelectricity. Journal of Materials Science: Materials in Electronics, 2019, 30, 7725-7732.	1.1	4
6295	N-functionalized graphene quantum dots: Charge transporting layer for high-rate and durable Li4Ti5O12-based Li-ion battery. Chemical Engineering Journal, 2019, 369, 1024-1033.	6.6	55

#	Article	IF	Citations
6296	Cobalt based metal-organic frameworks and their derivatives for electrochemical energy conversion and storage. Chemical Engineering Journal, 2019, 370, 37-59.	6.6	96
6297	LiNi0.5Mn1.5O4 microrod with ultrahigh Mn3+ content: A high performance cathode material for lithium ion battery. Electrochimica Acta, 2019, 305, 433-442.	2.6	34
6298	CO₂-Assisted synthesis of hierarchically porous carbon as a supercapacitor electrode and dye adsorbent. Inorganic Chemistry Frontiers, 2019, 6, 1141-1151.	3.0	7
6299	Supercapacitive performance of highly dispersed bismuth sulfide nanoparticles in organic matrix: The role of sulphur source. Inorganic Chemistry Communication, 2019, 103, 93-99.	1.8	23
6300	In-situ carbon coated manganese oxide nanorods (ISCC-MnO2NRs) as an electrode material for supercapacitors. Diamond and Related Materials, 2019, 94, 110-117.	1.8	34
6301	Fe₃O₄ nanorods r-GO sheets nanocomposite visible photo catalyst. Materials Research Express, 2019, 6, 065013.	0.8	7
6302	Subâ€6 nm Fully Ordered L1₀â€Ptâ€“Niâ€“Co Nanoparticles Enhance Oxygen Reduction via Co Doping Induced Ferromagnetism Enhancement and Optimized Surface Strain. Advanced Energy Materials, 2019, 9, 1803771.	10.2	127
6303	Strategies to Hierarchical Porosity in Carbon Nanofiber Webs for Electrochemical Applications. Surfaces, 2019, 2, 159-176.	1.0	21
6304	An architecture of dandelion-type Ni-Co3O4 microspheres on carbon nanotube films toward an efficient catalyst for oxygen reduction in zinc-air batteries. Applied Surface Science, 2019, 481, 40-51.	3.1	20
6305	Mesoporous NH4NiPO4Â·H2O for High-Performance Flexible All-Solid-State Asymmetric Supercapacitors. Frontiers in Chemistry, 2019, 7, 118.	1.8	22
6306	Hierarchical Zn_{1.67} Mn_{1.33} O₄ /graphene nanoaggregates as new anode material for lithium-ion batteries. International Journal of Energy Research, 2019, 43, 1735-1746.	2.2	11
6307	Carambola-shaped SnO2 wrapped in carbon nanotube network for high volumetric capacity and improved rate and cycle stability of lithium ion battery. Chemical Engineering Journal, 2019, 369, 422-431.	6.6	75
6308	Flexible lignin-derived carbon nanofiber substrates functionalized with iron (III) oxide nanoparticles as lithium-ion battery anodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 241, 100-104.	1.7	33
6309	Rational construction of self-supported triangle-like MOF-derived hollow (Ni,Co)Se₂ arrays for electrocatalysis and supercapacitors. Nanoscale, 2019, 11, 6401-6409.	2.8	122
6311	Novel GaNb49O124 microspheres with intercalation pseudocapacitance for ultrastable lithium-ion storage. Ceramics International, 2019, 45, 12211-12217.	2.3	20
6312	Pseudocapacitance phenomena and applications in biosensing devices. Electrochimica Acta, 2019, 306, 175-184.	2.6	21
6313	Development of all-solid-state battery based on lithium ion conductive polymer nanofiber framework. Journal of Power Sources, 2019, 423, 255-262.	4.0	70
6314	Anomalous Dynamics of a Nanoconfined Gas in a Soft Metalâ€“Organics Framework. Journal of Physical Chemistry Letters, 2019, 10, 1698-1708.	2.1	5

#	Article	IF	Citations
6315	Biotemplate-Based Engineering of High-Temperature Stable Anatase TiO₂ Nanofiber Bundles with Impregnated CeO₂ Nanocrystals for Enhanced Lithium Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 7823-7832.	3.2	22
6316	Oxygen-Rich Hierarchical Porous Graphene as an Excellent Electrode for Supercapacitors, Aqueous Al-Ion Battery, and Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2019, 7, 8475-8489.	3.2	44
6317	Nanotube-assembled pine-needle-like CuS as an effective energy booster for sodium-ion storage. Journal of Materials Chemistry A, 2019, 7, 10619-10628.	5.2	70
6318	Ostwald ripening of confined nanoparticles: chemomechanical coupling in nanopores. Nanoscale, 2019, 11, 7386-7393.	2.8	51
6319	Recent advance in new-generation integrated devices for energy harvesting and storage. Nano Energy, 2019, 60, 600-619.	8.2	190
6320	Electrospinning and Electrospun Nanofibers: Methods, Materials, and Applications. Chemical Reviews, 2019, 119, 5298-5415.	23.0	2,814
6321	Controlled synthesis of porous 3D interconnected MnO /C composite aerogel and their excellent lithium-storage properties. Electrochimica Acta, 2019, 306, 143-150.	2.6	24
6322	Mechanistic studies on reversible conversion reaction in Li2MnO3-carbon nanotube composite anode. Journal of Power Sources, 2019, 423, 323-330.	4.0	12
6323	Camphor sulfonic acid assisted synthesis of polythiophene composite for high energy density all-solid-state symmetric supercapacitor. Journal of Materials Science: Materials in Electronics, 2019, 30, 7471-7484.	1.1	23
6324	Facets and vertices regulate hydrogen uptake and release in palladium nanocrystals. Nature Materials, 2019, 18, 454-458.	13.3	96
6325	Optimal Condition of Solid-Electrolyte-Interphase Prepared by Controlled Prelithiation for High Performance Li-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A787-A792.	1.3	13
6326	Hybridization design of materials and devices for flexible electrochemical energy storage. Energy Storage Materials, 2019, 19, 212-241.	9.5	163
6327	High-performance asymmetric micro-supercapacitors based on electrodeposited MnO₂ and N-doped graphene. Nanotechnology, 2019, 30, 235403.	1.3	13
6328	Identifying the Activation of Bimetallic Sites in NiCo₂S₄@gâ€C₃N₄â€CNT Hybrid Electrocatalysts for Synergistic Oxygen Reduction and Evolution. Advanced Materials, 2019, 31, e1808281.	11.1	315
6329	Crystallographically Determined Etching and Its Relevance to the Metal-Assisted Catalytic Etching (MACE) of Silicon Powders. Frontiers in Chemistry, 2019, 6, 651.	1.8	16
6330	Laser synthesis and functionalization of nanostructures. International Journal of Extreme Manufacturing, 2019, 1, 012002.	6.3	15
6331	Constructing hyperbranched polymers as a stable elastic framework for copper sulfide nanoplates for enhancing sodium-storage performance. Nanoscale, 2019, 11, 7188-7198.	2.8	20
6332	Fluidity and phase transitions of water in hydrophobic and hydrophilic nanotubes. Scientific Reports, 2019, 9, 5689.	1.6	20

#	Article	IF	Citations
6333	Excellent Electrochemical Performances of Intrinsic Polyaniline Nanofibers Fabricated by Electrochemical Deposition. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 216-222.	0.4	11
6334	Energy-saving hydrogen production coupling urea oxidation over a bifunctional nickel-molybdenum nanotube array. Nano Energy, 2019, 60, 894-902.	8.2	250
6335	Phase transformations and capacity fade mechanism in Li_xSn nanoparticle electrodes revealed by operando⁷Li NMR. Journal of Materials Chemistry A, 2019, 7, 10781-10794.	5.2	30
6336	Stepwise Fabrication of Co-Embedded Porous Multichannel Carbon Nanofibers for High-Efficiency Oxygen Reduction. Nano-Micro Letters, 2019, 11, 33.	14.4	12
6337	Dependence of structural cross-linking, system energy and transition temperature on coordination number for Sm doped GST. Results in Physics, 2019, 13, 102276.	2.0	16
6338	A hollow $${hbox {Fe}}_{3} {hbox {O}}_{4}$$ Fe 3 O 4 -based nanocomposite anode for lithium-ion batteries with outstanding c. Bulletin of Materials Science, 2019, 42, 1.	0.8	3
6339	Electrochemical and chemiluminescence properties of polyaniline/pectin hybrid nanocomposites based on graphene and CdS nanoparticles. Polymer Testing, 2019, 76, 490-498.	2.3	9
6340	High-rate lithium ion energy storage to facilitate increased penetration of photovoltaic systems in electricity grids. MRS Energy & Sustainability, 2019, 6, 1.	1.3	10
6341	Co₃O₄ Supraparticleâ€Based Bubble Nanofiber and Bubble Nanosheet with Remarkable Electrochemical Performance. Advanced Science, 2019, 6, 1900107.	5.6	59
6342	Reagent induced morphological changes in NiCo2O4 electrode material for flexible supercapacitor. Materials Letters, 2019, 248, 218-221.	1.3	23
6343	Covalent Organic Frameworks: A New Class of Porous Organic Frameworks for Supercapacitor Electrodes. ChemElectroChem, 2019, 6, 2984-2997.	1.7	64
6344	A Costâ€Effective and Scaleable Approach for the Inâ€Situ Synthesis of Porous Carbonâ€Coated Micrometerâ€Sized AlSi Particles as Anode for Lithiumâ€Ion Batteries. ChemElectroChem, 2019, 6, 2517-2523.	1.7	4
6345	Synthesis, structural and electrochemical characterization of Zn doped iron oxide/grapheneoxide/chitosan nanocomposite for supercapacitor application. Vacuum, 2019, 164, 396-404.	1.6	32
6346	High-efficiency supercapacitors based on V2O5/rGONR network from hierarchical nanoribbon assemblies. Journal of Alloys and Compounds, 2019, 792, 468-473.	2.8	6
6347	Establishing highly-efficient surface faradaic reaction in flower-like NiCo2O4 nano-/micro-structures for next-generation supercapacitors. Electrochimica Acta, 2019, 307, 302-309.	2.6	95
6348	High throughput crystal structure and composition mapping of crystalline nanoprecipitates in alloys by transmission Kikuchi diffraction and analytical electron microscopy. Ultramicroscopy, 2019, 202, 33-43.	0.8	18
6349	Investigation of Cobalt Phthalocyanine at the Solid/Liquid Interface by Electrochemical Tip-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 9852-9859.	1.5	37
6350	Self-supported core/shell Co3O4@Ni3S2 nanowires for high-performance supercapacitors. Electrochimica Acta, 2019, 311, 221-229.	2.6	49

#	Article	IF	Citations
6351	Composite K₂Mo₄O₁₃/Î±-MoO₃ nanorods: sonochemical preparation and applications for advanced Li⁺/Na⁺ pseudocapacitance. Journal of Materials Chemistry A, 2019, 7, 10954-10961.	5.2	6
6352	Vanadium activity measurement in fcc phase Pt-V alloy. Journal of Alloys and Compounds, 2019, 788, 967-971.	2.8	1
6353	Nextâ€Generation Additive Manufacturing: Tailorable Graphene/Polylactic(acid) Filaments Allow the Fabrication of 3D Printable Porous Anodes for Utilisation within Lithiumâ€Ion Batteries. Batteries and Supercaps, 2019, 2, 448-453.	2.4	52
6354	Adsorption and ultrafast diffusion of lithium in bilayer graphene: Ab initio and kinetic Monte Carlo simulation study. Physical Review B, 2019, 99, .	1.1	28
6355	Substitutional disorder: structure and ion dynamics of the argyrodites Li₆PS₅Cl, Li₆PS₅Br and Li₆PS₅I. Physical Chemistry Chemical Physics, 2019, 21, 8489-8507.	1.3	133
6356	Dehydration of Alginic Acid Cryogel by TiCl 4 vapor: Direct Access to Mesoporous TiO 2 @C Nanocomposites and Their Performance in Lithiumâ€Ion Batteries. ChemSusChem, 2019, 12, 2660-2670.	3.6	6
6357	Biomass based bio-electro fuel cells based on carbon electrodes: an alternative source of renewable energy. SN Applied Sciences, 2019, 1, 1.	1.5	14
6358	Toward High Powerâ€High Energy Sodium Cathodes: A Case Study of Bicontinuous Ordered Network of 3D Porous Na₃(VO)₂(PO₄)₂F/rGO with Pseudocapacitance Effect. Small, 2019, 15, e1900356.	5.2	54
6359	Vanadateâ€Based Materials for Liâ€Ion Batteries: The Search for Anodes for Practical Applications. Advanced Energy Materials, 2019, 9, 1803324.	10.2	168
6360	Multishelled Transition Metalâ€Based Microspheres: Synthesis and Applications for Batteries and Supercapacitors. Small, 2019, 15, e1804737.	5.2	47
6361	Inherent Guanidine Nanogels with Durable Antibacterial and Bacterially Antiadhesive Properties. Advanced Functional Materials, 2019, 29, 1806594.	7.8	93
6362	Preparation and properties of manipulated carbon nanotube composites and applications. , 2019, , 489-520.		17
6363	A facile route to achieve ultrafine Fe2O3 nanorods anchored on graphene oxide for application in lithium-ion battery. Journal of Power Sources, 2019, 416, 118-124.	4.0	67
6364	Mesoporous silica/organosilica nanoparticles: Synthesis, biological effect and biomedical application. Materials Science and Engineering Reports, 2019, 137, 66-105.	14.8	119
6365	Tetragonal and trigonal Mo₂B₂ monolayers: two new low-dimensional materials for Li-ion and Na-ion batteries. Physical Chemistry Chemical Physics, 2019, 21, 5178-5188.	1.3	72
6366	Construction of unique heterogeneous cobaltâ€“manganese oxide porous microspheres for the assembly of long-cycle and high-rate lithium ion battery anodes. Journal of Materials Chemistry A, 2019, 7, 6149-6160.	5.2	96
6367	In situ growth of Co3O4 nanoflakes on reduced graphene oxide-wrapped Ni-foam as high performance asymmetric supercapacitor. Electrochimica Acta, 2019, 302, 327-337.	2.6	79
6368	Single crystalline nanorods of Na0.44MnO2 enhanced by reduced graphene oxides as a high rate and high capacity cathode material for sodium-ion batteries. Electrochimica Acta, 2019, 303, 125-132.	2.6	17

#	Article	IF	Citations
6369	High performance hybrid supercapacitor based on doped zucchini-derived carbon dots and graphene. Materials Today Energy, 2019, 12, 198-207.	2.5	67
6370	Disordered surface formation of WS₂via hydrogen plasma with enhanced anode performances for lithium and sodium ion batteries. Sustainable Energy and Fuels, 2019, 3, 865-874.	2.5	19
6371	Scalable Production of Graphene Inks via Wetâ€Jet Milling Exfoliation for Screenâ€Printed Microâ€Supercapacitors. Advanced Functional Materials, 2019, 29, 1807659.	7.8	174
6372	Nanostructured Materials for Li-Ion Battery Applications. Environmental Chemistry for A Sustainable World, 2019, , 105-172.	0.3	1
6373	Doubleâ€Shelled Nanostructure of SnO 2 @C Tubeâ€inâ€SnO 2 @C Tube Boosts Lithiumâ€Ion Storage. Energy Technology, 2019, 7, 1801048.	1.8	6
6374	Carbon Nanomaterials in Renewable Energy Production and Storage Applications. Environmental Chemistry for A Sustainable World, 2019, , 51-104.	0.3	14
6375	Nanomaterials With Different Dimensions for Electrocatalysis. , 2019, , 435-464.		10
6376	Morphology and Reactivity Evolution of HCP and FCC Ru Nanoparticles under CO Atmosphere. ACS Catalysis, 2019, 9, 2768-2776.	5.5	36
6377	Well-Defined Boron/Nitrogen-Doped Polycyclic Aromatic Hydrocarbons Are Active Electrocatalysts for the Oxygen Reduction Reaction. Chemistry of Materials, 2019, 31, 1891-1898.	3.2	42
6378	New Insights into the Electrochemistry Superiority of Liquid Naâ€“K Alloy in Metal Batteries. Small, 2019, 15, e1804916.	5.2	26
6379	LiFePO₄ Particles Embedded in Fast Bifunctional Conductor rGO&C@Li₃V₂(PO₄)₃ Nanosheets as Cathodes for Highâ€Performance Liâ€Ion Hybrid Capacitors. Advanced Functional Materials, 2019, 29, 1807895.	7.8	42
6380	Nickel Phosphide Nanosheets Supported on Reduced Graphene Oxide for Enhanced Aluminum-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 6004-6012.	3.2	61
6381	MoNb₁₂O₃₃ as a new anode material for high-capacity, safe, rapid and durable Li⁺ storage: structural characteristics, electrochemical properties and working mechanisms. Journal of Materials Chemistry A, 2019, 7, 6522-6532.	5.2	157
6382	Investigation of MnCo2O4/MWCNT composite as anode material for lithium ion battery. Ceramics International, 2019, 45, 10619-10625.	2.3	13
6383	Flexible symmetric supercapacitor with ultrahigh energy density based on NiS/MoS2@N-rGO hybrids electrode. Journal of Colloid and Interface Science, 2019, 543, 147-155.	5.0	58
6384	Achieving Ultrahigh Capacity with Self-Assembled Ni(OH)₂ Nanosheet-Decorated Hierarchical Flower-like MnCo₂O_{4.5} Nanoneedles as Advanced Electrodes of Batteryâ€“Supercapacitor Hybrid Devices. ACS Applied Materials & Interfaces, 2019, 11, 9984-9993.	4.0	78
6385	A facile in-situ activation of protonated histidine-derived porous carbon for electrochemical capacitive energy storage. Journal of Industrial and Engineering Chemistry, 2019, 73, 316-327.	2.9	6
6386	Electrochemical flow cell enabling operando probing of electrocatalyst surfaces by X-ray spectroscopy and diffraction. Physical Chemistry Chemical Physics, 2019, 21, 5402-5408.	1.3	38

#	Article	IF	Citations
6387	In-situ preparation of nanostructured Î±-MnO2/polypyrrole hybrid composite electrode materials for high performance supercapacitor. Journal of Alloys and Compounds, 2019, 787, 1044-1050.	2.8	37
6388	Asymmetric supercapacitor based on carbon nanofibers as the anode and two-dimensional copper cobalt oxide nanosheets as the cathode. Chemical Engineering Journal, 2019, 366, 390-403.	6.6	113
6389	Investigation of the deposition of metal nanoclusters on the surface of porous electrode materials by electrophoresis. IOP Conference Series: Materials Science and Engineering, 2019, 498, 012032.	0.3	0
6390	Amorphous titanium-oxide supercapacitors with high capacitance. Europhysics Letters, 2019, 128, 58001.	0.7	4
6391	Performance Modeling and Design of High Energy Density Microbatteries. , 2019, , .		0
6392	Investigation of Binary Metal (Ni, Co) Selenite as Liâ€ion Battery Anode Materials and Their Conversion Reaction Mechanism with Li Ions. Small, 2019, 15, e1905289.	5.2	51
6393	Suppression of Polysulfide Dissolution and Shuttling with Glutamate Electrolyte for Lithium Sulfur Batteries. ACS Nano, 2019, 13, 14172-14181.	7.3	64
6394	Effect of High Loading Glycine on Fe₂O₃ Nano Oval as Anode for Lithium-Ion Battery. Materials Science Forum, 2019, 964, 215-220.	0.3	0
6395	Free volume, gas permeation, and proton conductivity in MIL-101-SO₃H/Nafion composite membranes. Physical Chemistry Chemical Physics, 2019, 21, 25982-25992.	1.3	18
6396	Rational design of 3D N-doped carbon nanosheet framework encapsulated ultrafine ZnO nanocrystals as superior performance anode materials in lithium ion batteries. Journal of Materials Chemistry A, 2019, 7, 25155-25164.	5.2	42
6397	A hierarchical NiCo₂S₄ honeycomb/NiCo₂S₄ nanosheet coreâ€“shell structure for supercapacitor applications. RSC Advances, 2019, 9, 32338-32347.	1.7	6
6398	Effects of temperatures and carbon dioxide nanobubbles on superior electric storage for anodically oxidized films of AlY10 amorphous alloy. AIP Advances, 2019, 9, 095202.	0.6	6
6399	Iodine doped composite with biomass carbon dots and reduced graphene oxide: a versatile bifunctional electrode for energy storage and oxygen reduction reaction. Journal of Materials Chemistry A, 2019, 7, 22650-22662.	5.2	33
6400	Metallic state two-dimensional holey-structured Co₃FeN nanosheets as stable and bifunctional electrocatalysts for zincâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 26549-26556.	5.2	30
6401	Combined Experimental and Theoretical Study of Cobalt Corroles as Catalysts for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2019, 123, 30129-30136.	1.5	26
6402	Layer-by-Layer Assembly of Polyaniline Nanofibers and MXene Thin-Film Electrodes for Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2019, 11, 47929-47938.	4.0	38
6403	Supercapacitor Based On Active Carbon Electrode: Review. , 2019, , .		2
6404	MOF assisted synthesis of new porous nickel phosphate nanorods as an advanced electrode material for energy storage application. Journal of Solid State Electrochemistry, 2019, 23, 3429-3435.	1.2	24

#	Article	IF	Citations
6405	A New Metallic In₃O₄ Sheet as an Anode Material for Sodium-Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 30213-30220.	1.5	11
6406	Energy storage: The future enabled by nanomaterials. Science, 2019, 366, .	6.0	1,119
6407	Magnetic oxygen stored in quasi-1D form within BaAl2O4 lattice. Scientific Reports, 2019, 9, 15158.	1.6	10
6408	Solid Electrolytes for Advanced Applications. , 2019, , .		8
6409	Thermally reduced fluorographenes as efficient electrode materials for supercapacitors. Nanoscale, 2019, 11, 21364-21375.	2.8	15
6410	Carbon network framework derived iron-nitrogen co-doped carbon nanotubes for enhanced oxygen reduction reaction through metal salt-assisted polymer blowing strategy. Applied Surface Science, 2019, 463, 767-774.	3.1	26
6411	Two-dimensional porous carbon-coated sandwich-like mesoporous SnO2/graphene/mesoporous SnO2 nanosheets towards high-rate and long cycle life lithium-ion batteries. Chemical Engineering Journal, 2019, 361, 329-341.	6.6	152
6412	A novel method to synthesize vanadium nitride nanopowders by ammonia reduction from combustion precursors. Journal of Alloys and Compounds, 2019, 772, 808-813.	2.8	24
6413	Free-standing NiCo2S4@VS2 nanoneedle array composite electrode for high performance asymmetric supercapacitor application. Journal of Alloys and Compounds, 2019, 771, 274-280.	2.8	41
6414	Nanocomposites of hierarchical ultrathin MnO2 nanosheets/hollow carbon nanofibers for high-performance asymmetric supercapacitors. Applied Surface Science, 2019, 463, 931-938.	3.1	137
6415	Recent progress in nanostructured transition metal nitrides for advanced electrochemical energy storage. Journal of Materials Chemistry A, 2019, 7, 14-37.	5.2	181
6416	Porous Carbon Hosts for Lithiumâ€“Sulfur Batteries. Chemistry - A European Journal, 2019, 25, 3710-3725.	1.7	136
6417	PECVD-derived graphene nanowall/lithium composite anodes towards highly stable lithium metal batteries. Energy Storage Materials, 2019, 22, 29-39.	9.5	65
6418	Development of the applications of titanium nitride in fuel cells. Materials Today Chemistry, 2019, 11, 42-59.	1.7	17
6419	Nickel phosphate/carbon fibre nanocomposite for high-performance pseudocapacitors. Journal of Applied Electrochemistry, 2019, 49, 45-55.	1.5	12
6420	Vanadium Pentoxide for Li-Ion Storage. Springer Theses, 2019, , 29-50.	0.0	1
6421	Recent advances in synthesis, properties, and applications of vanadium oxide nanotube. Microchemical Journal, 2019, 145, 966-978.	2.3	80
6422	Co-doped 1T-MoS2 nanosheets embedded in N, S-doped carbon nanobowls for high-rate and ultra-stable sodium-ion batteries. Nano Research, 2019, 12, 2218-2223.	5.8	88

#	Article	IF	Citations
6423	Co(OH)2@Co electrode for efficient alkaline anode based on Co2+/CoÂ° redox mechanism. Energy Storage Materials, 2019, 21, 372-377.	9.5	13
6424	A flour-based one-stop supercapacitor with intrinsic self-healability and stretchability after self-healing and biodegradability. Energy Storage Materials, 2019, 21, 174-179.	9.5	48
6425	Facile solvothermal synthesis and high supercapacitor performance of NiCo2O4 nanorods. Journal of Alloys and Compounds, 2019, 781, 1013-1020.	2.8	132
6426	Low-Charge-Carrier-Scattering Three-Dimensional Î±-MnO₂/Î²-MnO₂ Networks for Ultra-High-Rate Asymmetrical Supercapacitors. ACS Applied Energy Materials, 2019, 2, 1051-1059.	2.5	30
6427	Hierarchical 3D electrodes for electrochemical energy storage. Nature Reviews Materials, 2019, 4, 45-60.	23.3	554
6428	Background, fundamental understanding and progress in electrochemical capacitors. Journal of Solid State Electrochemistry, 2019, 23, 667-692.	1.2	62
6429	Flexible and coatable insulating silica aerogel/polyurethane composites via soft segment control. Composites Science and Technology, 2019, 171, 244-251.	3.8	35
6430	Review on areal capacities and long-term cycling performances of lithium sulfur battery at high sulfur loading. Energy Storage Materials, 2019, 18, 289-310.	9.5	231
6431	Self-healing silicon-sodium alginate-polyaniline composites originated from the enhancement hydrogen bonding for lithium-ion battery: A combined simulation and experiment study. Journal of Power Sources, 2019, 412, 749-758.	4.0	38
6432	Unique oblate-like ZnWO4 nanostructures for electrochemical energy storage performances. Materials Letters, 2019, 240, 103-107.	1.3	11
6433	Investigation of electrochemical performance of montmorillonite clay as Li-ion battery electrode. Sustainable Materials and Technologies, 2019, 19, e00086.	1.7	7
6434	Rational Design of Hierarchically Openâ€Porous Spherical Hybrid Architectures for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1802816.	10.2	48
6436	Noncontact Imaging of Ion Dynamics in Polymer Electrolytes with Time-Resolved Electrostatic Force Microscopy. ACS Nano, 2019, 13, 536-543.	7.3	14
6437	Optimized Porous Si/SiC Composite Spheres as Highâ€Performance Anode Material for Lithiumâ€Ion Batteries. ChemElectroChem, 2019, 6, 450-455.	1.7	22
6438	Hybrid Cation Exchange Membranes with Lithium Ionâ€Sieves for Highly Enhanced Li⁺ Permeation and Permselectivity. Macromolecular Materials and Engineering, 2019, 304, 1800567.	1.7	16
6439	One-dimensional anodic TiO2 nanotubes coated by atomic layer deposition: Towards advanced applications. Applied Materials Today, 2019, 14, 1-20.	2.3	78
6440	Synthesis of silk-like FeS2/NiS2 hybrid nanocrystals with improved reversible oxygen catalytic performance in a Zn-air battery. Chinese Journal of Catalysis, 2019, 40, 43-51.	6.9	34
6441	Stabilizing antimony nanocrystals within ultrathin carbon nanosheets for high-performance K-ion storage. Energy Storage Materials, 2019, 20, 46-54.	9.5	78

#	Article	IF	Citations
6442	Construction of Longanâ€“like hybrid structures by anchoring nickel hydroxide on yolkâ€“shell polypyrrole for asymmetric supercapacitors. Nano Energy, 2019, 56, 207-215.	8.2	132
6443	Imidazole decorated reduced graphene oxide: A biomimetic ligand for selective oxygen reduction electrocatalysis with Metalloporphyrins. Carbon, 2019, 143, 223-229.	5.4	35
6444	Reduced ZnCo2O4@NiMoO4Â·H2O heterostructure electrodes with modulating oxygen vacancies for enhanced aqueous asymmetric supercapacitors. Journal of Power Sources, 2019, 409, 112-122.	4.0	94
6445	Two-dimensional materials for lithium/sodium-ion capacitors. Materials Today Energy, 2019, 11, 30-45.	2.5	88
6446	Novel design of Fe3O4/hollow graphene spheres composite for high performance lithium-ion battery anodes. Journal of Alloys and Compounds, 2019, 779, 466-473.	2.8	25
6447	Oxygen-enriched crumpled graphene-based symmetric supercapacitor with high gravimetric and volumetric performances. Journal of Electroanalytical Chemistry, 2019, 833, 119-125.	1.9	21
6448	Zn-doped MoSe2 nanosheets as high-performance electrocatalysts for hydrogen evolution reaction in acid media. Electrochimica Acta, 2019, 296, 701-708.	2.6	70
6449	Low-energy hydrothermal fabrication of Î±-Ni(OH)2 nanosheet arrays as efficient electrodes for sustainable supercapacitors. Sustainable Materials and Technologies, 2019, 20, e00085.	1.7	4
6450	Real-time insight into the doping mechanism of redox-active organic radical polymers. Nature Materials, 2019, 18, 69-75.	13.3	140
6451	Vanadium Doping Enhanced Electrochemical Performance of Molybdenum Oxide in Lithiumâ€Ion Batteries. Advanced Functional Materials, 2019, 29, 1805227.	7.8	79
6452	Electrochemically Anodized Ultralong TiO2 Nanotubes for Supercapacitors. Journal of Electronic Materials, 2019, 48, 873-878.	1.0	6
6453	Bifunctional and Efficient CoS₂â€“C@MoS₂ Coreâ€“Shell Nanofiber Electrocatalyst for Water Splitting. ACS Sustainable Chemistry and Engineering, 2019, 7, 2899-2905.	3.2	91
6454	Rational Design of Robust Si/C Microspheres for High-Tap-Density Anode Materials. ACS Applied Materials & Interfaces, 2019, 11, 4057-4064.	4.0	111
6455	Magnesium substituted cobalt spinel nanostructures for electrocatalytic water oxidation. Journal of Applied Electrochemistry, 2019, 49, 315-325.	1.5	16
6456	Carbon xerogels electrochemical oxidation and correlation with their physico-chemical properties. Carbon, 2019, 144, 382-394.	5.4	21
6457	A Novel Anode with Superior Cycling Stability Based on Silicon Encapsulated in Shellâ€Like rGO/CNT Architecture for Lithiumâ€Ion Batteries. Energy Technology, 2019, 7, 1801047.	1.8	8
6458	Optimal design of a model energy conversion device. Structural and Multidisciplinary Optimization, 2019, 59, 389-401.	1.7	4
6459	WS2-decorated graphene foam@CNTs hybrid anode for enhanced lithium-ion storage. Journal of Alloys and Compounds, 2019, 784, 697-703.	2.8	18

#	Article	IF	Citations
6460	Bio-molecule templated hydrothermal synthesis of ZnWO4 nanomaterial for high-performance supercapacitor electrode application. Journal of Molecular Structure, 2019, 1181, 131-141.	1.8	36
6461	Triboelectric Nanogenerator Driven Self-Charging and Self-Healing Flexible Asymmetric Supercapacitor Power Cell for Direct Power Generation. ACS Applied Materials & Interfaces, 2019, 11, 5022-5036.	4.0	63
6462	An electrochromic and self-healing multi-functional supercapacitor based on PANI/nw-WO2.7/Au NPs electrode and hydrogel electrolyte. Journal of Alloys and Compounds, 2019, 786, 40-49.	2.8	53
6463	Structure and electrochromism of two-dimensional octahedral molecular sieve hâ€™-WO3. Nature Communications, 2019, 10, 327.	5.8	88
6464	Size-dependent kinetics during non-equilibrium lithiation of nano-sized zinc ferrite. Nature Communications, 2019, 10, 93.	5.8	39
6465	Review and prospect of Li2ZnTi3O8-based anode materials for Li-ion battery. Ionics, 2019, 25, 373-397.	1.2	20
6466	Controllable fabrication of ZnCo2O4 ultra-thin curved sheets on Ni foam for high-performance asymmetric supercapacitors. Electrochimica Acta, 2019, 299, 388-394.	2.6	46
6467	Potassium gluconate-derived N/S Co-doped carbon nanosheets as superior electrode materials for supercapacitors and sodium-ion batteries. Journal of Power Sources, 2019, 414, 308-316.	4.0	87
6468	A facile one pot synthesis of novel pure and Cd doped PbI2 nanostructures for electro-optic and radiation detection applications. Optical Materials, 2019, 88, 417-423.	1.7	66
6469	Fully Tensile Strained Pd₃Pb/Pd Tetragonal Nanosheets Enhance Oxygen Reduction Catalysis. Nano Letters, 2019, 19, 1336-1342.	4.5	109
6470	Supercapacitive performances of few-layer MoS2 on reduced graphene oxides. Journal of Solid State Electrochemistry, 2019, 23, 911-923.	1.2	11
6471	Helical cobalt borophosphates to master durable overall water-splitting. Energy and Environmental Science, 2019, 12, 988-999.	15.6	179
6472	Construction of nanoporous gold/g-C3N4 heterostructure for electrochemical supercapacitor. Electrochimica Acta, 2019, 294, 260-267.	2.6	39
6473	Storage of Mechanical Energy Based on Carbon Nanotubes with High Energy Density and Power Density. Advanced Materials, 2019, 31, e1800680.	11.1	46
6474	High performance solid-state iron-air rechargeable ceramic battery operating at intermediate temperatures (500â€“650â€Â°C). Applied Energy, 2019, 233-234, 386-394.	5.1	28
6475	Chain rotation significantly reduces thermal conductivity of single-chain polymers. Journal of Materials Research, 2019, 34, 126-133.	1.2	39
6476	Iron oxide nanostructures for photoelectrochemical applications: Effect of applied potential during Fe anodization. Journal of Industrial and Engineering Chemistry, 2019, 70, 234-242.	2.9	13
6477	Facile construction of ultrathin SnOx nanosheets decorated MXene (Ti3C2) nanocomposite towards Li-ion batteries as high performance anode materials. Electrochimica Acta, 2019, 295, 237-245.	2.6	64

#	Article	IF	Citations
6478	Anodic oxidization of Al-Y amorphous alloy ribbons and their capacitive properties. Journal of Alloys and Compounds, 2019, 776, 757-762.	2.8	11
6479	A cathode for Li-ion batteries made of vanadium oxide on vertically aligned carbon nanotube arrays/graphene foam. Chemical Engineering Journal, 2019, 359, 1668-1676.	6.6	25
6480	In-situ high loading of SnO2 monocrystals in a tridimensional carbon network via chemical bonding for enhanced lithium storage performance. Journal of Alloys and Compounds, 2019, 775, 790-799.	2.8	7
6481	Porous CoP/C@MCNTs hybrid composite derived from metalâ€“organic frameworks for high-performance lithium-ion batteries. Journal of Materials Science, 2019, 54, 3273-3283.	1.7	29
6482	Morphology control of hybrid Cuâ€“Cu2O nanostructures fabricated by electrochemical migration. Materials Letters, 2019, 236, 420-423.	1.3	9
6483	Preparation and electrochemical properties of MnO2/PANI-CNTs composites materials. Composite Interfaces, 2019, 26, 659-677.	1.3	11
6484	Review on Nanoarchitectured Current Collectors for Pseudocapacitors. Small Methods, 2019, 3, 1800341.	4.6	43
6485	Impact of the synthesis parameters on the microstructure of nano-structured LTO prepared by glycothermal routes and 7Li NMR structural investigations. Journal of Sol-Gel Science and Technology, 2019, 89, 225-233.	1.1	4
6486	Hierarchical NiSe@Co2(CO3)(OH)2 heterogeneous nanowire arrays on nickel foam as electrode with high areal capacitance for hybrid supercapacitors. Electrochimica Acta, 2019, 294, 325-336.	2.6	55
6487	LiY(MoO4)2 nanotubes: Novel zero-strain anode for electrochemical energy storage. Energy Storage Materials, 2019, 21, 297-307.	9.5	27
6488	MnCo2O4 nanosphere synthesis for electrochemical applications. Materials Science for Energy Technologies, 2019, 2, 130-138.	1.0	25
6489	NH4F assisted and morphology-controlled fabrication of ZnCo2O4 nanostructures on Ni-foam for enhanced energy storage devices. Journal of Alloys and Compounds, 2019, 781, 245-254.	2.8	65
6490	A porous Ni-O/Ni/Si photoanode for stable and efficient photoelectrochemical water splitting. Chemical Communications, 2019, 55, 377-380.	2.2	31
6491	Graphene Network Scaffolded Flexible Electrodesâ€”From Lithium to Sodium Ion Batteries. Springer Theses, 2019, , .	0.0	0
6492	Practical use of polymer brushes in sustainable energy applications: interfacial nanoarchitectonics for high-efficiency devices. Chemical Society Reviews, 2019, 48, 814-849.	18.7	122
6493	N-doped-carbon coated Ni2P-Ni sheets anchored on graphene with superior energy storage behavior. Nano Research, 2019, 12, 607-618.	5.8	83
6494	Porous spheres of TiO2 (B)/anatase entwined by graphene nanoribbons for high Li+ rate performance. Electrochimica Acta, 2019, 298, 14-21.	2.6	11
6495	Synergistic Cu@CoOx core-cage structure on carbon layers as highly active and durable electrocatalysts for methanol oxidation. Applied Catalysis B: Environmental, 2019, 244, 795-801.	10.8	42

#	Article	IF	Citations
6496	Self-Assembly of Hybrid Nanorods for Enhanced Volumetric Performance of Nanoparticles in Li-Ion Batteries. Nano Letters, 2019, 19, 228-234.	4.5	7
6497	Synthesis of B doped graphene/polyaniline hybrids for high-performance supercapacitor application. Journal of Materials Science: Materials in Electronics, 2019, 30, 2316-2326.	1.1	17
6498	Solid-state energy storage devices based on two-dimensional nano-materials. Energy Storage Materials, 2019, 20, 269-290.	9.5	50
6499	Flexible and stretchable metallic glass micro- and nano-structures of tunable properties. Nanotechnology, 2019, 30, 085705.	1.3	15
6500	Porous carbon-coated ball-milled silicon as high-performance anodes for lithium-ion batteries. Journal of Materials Science, 2019, 54, 4798-4810.	1.7	28
6501	Improving the electrochemical performance of LiNi1/3Co1/3Mn1/3O2 cathode material via tungsten modification. Electrochimica Acta, 2019, 297, 398-405.	2.6	40
6502	Microwave-assisted rapid synthesis of NiCo2S4 nanotube arrays on Ni foam for high-cycling-stability supercapacitors. Journal of Alloys and Compounds, 2019, 780, 164-169.	2.8	13
6503	Nanohybrid electrodes of porous hollow SnO2 and graphene aerogel for lithium ion battery anodes. Journal of Industrial and Engineering Chemistry, 2019, 71, 345-350.	2.9	15
6504	Structurally Ordered Fe₃Pt Nanoparticles on Robust Nitride Support as a High Performance Catalyst for the Oxygen Reduction Reaction. Advanced Energy Materials, 2019, 9, 1803040.	10.2	96
6505	Comparative study of the electrochemical properties of P4332 and Fd3m space group of LiNi0.45Cu0.05Mn1.5O4 cathode materials. SN Applied Sciences, 2019, 1, 1.	1.5	1
6506	A facile synthesis of graphene nanoribbon-quantum dot hybrids and their application for composite electrolyte membrane in direct methanol fuel cells. Electrochimica Acta, 2019, 297, 267-280.	2.6	50
6507	A general approach for fabricating 3D MFe2O4 (M=Mn, Ni, Cu, Co)/graphitic carbon nitride covalently functionalized nitrogen-doped graphene nanocomposites as advanced anodes for lithium-ion batteries. Nano Energy, 2019, 57, 48-56.	8.2	75
6508	A review on recent advances in hybrid supercapacitors: Design, fabrication and applications. Renewable and Sustainable Energy Reviews, 2019, 101, 123-145.	8.2	1,049
6509	Hollow Micro/Nanostructured Ceriaâ€Based Materials: Synthetic Strategies and Versatile Applications. Advanced Materials, 2019, 31, e1800592.	11.1	87
6510	High volumetric energy density of LiFePO4/C microspheres based on xylitol-polyvinyl alcohol complex carbon sources. Journal of Alloys and Compounds, 2019, 773, 788-795.	2.8	32
6511	Mo₂C Nanodots Anchored on Nâ€Doped Porous CNT Microspheres as Electrode for Efficient Liâ€Ion Storage. Small Methods, 2019, 3, 1800287.	4.6	80
6512	Ordered two-dimensional porous Co3O4 nanosheets as electrocatalysts for rechargeable Li-O2 batteries. Nano Research, 2019, 12, 299-302.	5.8	26
6513	Facile construction of Co(OH)2@Ni(OH)2 core-shell nanosheets on nickel foam as three dimensional free-standing electrode for supercapacitors. Electrochimica Acta, 2019, 293, 40-46.	2.6	61

#	Article	IF	Citations
6514	Superior capacity, rate, long cycle life and high temperature performance of multilayered porous ultralong LiMn2O4 nanorods for lithium ion batteries. Journal of Electroanalytical Chemistry, 2019, 833, 304-312.	1.9	18
6515	Polymer Composites Containing Functionalized Nanoparticles and the Environment. , 2019, , 437-466.		2
6516	Nitrogen-doped porous carbon via ammonothermal carbonization for supercapacitors. Journal of Sol-Gel Science and Technology, 2019, 89, 101-110.	1.1	7
6517	Zr-doped Li4Ti5O12 anode materials with high specific capacity for lithium-ion batteries. Journal of Alloys and Compounds, 2019, 774, 38-45.	2.8	56
6518	Porous iron vanadate nanowire arrays on Ti foil as a high-performance lithium-ion battery. Applied Surface Science, 2019, 465, 1047-1054.	3.1	16
6519	A slip-flow model for oil transport in organic nanopores. Journal of Petroleum Science and Engineering, 2019, 172, 139-148.	2.1	65
6520	Microwave-assisted synthesis of Fe-doped NiMnO3 as electrode material for high-performance supercapacitors. Journal of Solid State Electrochemistry, 2019, 23, 63-72.	1.2	22
6521	One-pot hydrothermal fabrication of Î±-Fe2O3@C nanocomposites for electrochemical energy storage. Journal of Energy Chemistry, 2019, 28, 1-8.	7.1	41
6522	An overview on properties and applications of poly(butylene adipateâ€coâ€terephthalate)â€“PBAT based composites. Polymer Engineering and Science, 2019, 59, E7.	1.5	257
6523	A dislocation-based solution for stress introduced by arbitrary volume expansion in cylinders. Mathematics and Mechanics of Solids, 2019, 24, 598-615.	1.5	1
6524	Pulse electrodeposited RuO₂ electrodes for high-performance supercapacitor applications. Surface Engineering, 2019, 35, 102-108.	1.1	34
6525	Homogeneity quantification of nanoparticles dispersion in composite materials. Polymer Composites, 2019, 40, 1000-1005.	2.3	4
6526	A facile synthesis of anatase TiO2-Graphene nanocomposites using plasma and heat treatment. Applied Surface Science, 2019, 474, 118-126.	3.1	22
6527	Nature of extra capacity in MoS2 electrodes: Molybdenum atoms accommodate with lithium. Energy Storage Materials, 2019, 16, 37-45.	9.5	218
6528	Preparation of NiO nanoparticles in mesoporous silica via eutectic freezing and freeze-drying of aqueous precursor salts. Microporous and Mesoporous Materials, 2020, 304, 109136.	2.2	3
6529	Synthesis and applications of carbon nanofibers: a review. Reviews in Chemical Engineering, 2020, 36, 493-511.	2.3	85
6530	Biomass-derived nanoporous carbons as electrocatalysts for oxygen reduction reaction. Catalysis Today, 2020, 357, 269-278.	2.2	18
6531	Green synthesized materials for sensor, actuator, energy storage and energy generation: a review. Polymer-Plastics Technology and Materials, 2020, 59, 1-62.	0.6	26

#	Article	IF	Citations
6532	Recent progress of mesoscience in design of electrocatalytic materials for hydrogen energy conversion. Particuology, 2020, 48, 19-33.	2.0	12
6533	Integration of Graphite and Silicon Anodes for the Commercialization of Highâ€Energy Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 110-135.	7.2	460
6534	Graphitâ€•undâ€Siliciumâ€Anoden fÃ¼r Lithiumionenâ€•Hochenergiebatterien. Angewandte Chemie, 2020, 132, 112-138.	1.6	23
6535	Membrane technologies for Li+/Mg2+ separation from salt-lake brines and seawater: A comprehensive review. Journal of Industrial and Engineering Chemistry, 2020, 81, 7-23.	2.9	186
6536	Effect of thermal annealing on physiochemical properties of spray-deposited Î²-MnO2 thin films for electrochemical supercapacitor. Journal of Electroanalytical Chemistry, 2020, 856, 113483.	1.9	19
6537	Understanding and suppression strategies toward stable Li metal anode for safe lithium batteries. Energy Storage Materials, 2020, 25, 644-678.	9.5	207
6538	Covalent grafting of polystyrene sulfonic acid on graphene oxide nanoplatelets to form a composite membrane electrolyte with sulfonated poly(ether ether ketone) for direct methanol fuel cells. Journal of Membrane Science, 2020, 595, 117484.	4.1	31
6539	NiO/Ni nanocomposites embedded in 3D porous carbon with high performance for lithium-ion storage. Journal of Materials Science, 2020, 55, 1659-1672.	1.7	18
6540	Conductive and nitrogen-enriched porous carbon nanostructure derived from poly (para-phenylenediamine) for energy conversion and storage applications. Applied Surface Science, 2020, 503, 144069.	3.1	31
6541	Miniaturized Energy Storage Devices Based on Twoâ€Dimensional Materials. ChemSusChem, 2020, 13, 1420-1446.	3.6	30
6542	Efficacy, safety, and biomarker analysis of ensartinib in crizotinib-resistant, ALK-positive non-small-cell lung cancer: a multicentre, phase 2 trial. Lancet Respiratory Medicine,the, 2020, 8, 45-53.	5.2	105
6543	Building selfâ€powered emergency electronics based on hybrid nanogenerators for field survival/rescue. Energy Science and Engineering, 2020, 8, 574-581.	1.9	5
6544	Tin oxide electrodes in Li and Na-ion batteries. , 2020, , 411-439.		3
6545	String of pyrolyzed ZIF-67 particles on carbon fibers for high-performance electrocatalysis. Energy Storage Materials, 2020, 25, 137-144.	9.5	102
6546	Three dimensional graphene/carbonized metal-organic frameworks based high-performance supercapacitor. Carbon, 2020, 157, 55-63.	5.4	62
6547	Recent nanosheet-based materials for monovalent and multivalent ions storage. Energy Storage Materials, 2020, 25, 382-403.	9.5	14
6548	Wave reversal mode: A new magnetization reversal mechanism in magnetic nanotubes. Journal of Magnetism and Magnetic Materials, 2020, 497, 165944.	1.0	9
6549	A two-step fabrication and characterization of 1D hybrid ferromagnetic-multiferroic Ni â€“ BiFe1-xCoxO3 core-shell nanostructures. Journal of Magnetism and Magnetic Materials, 2020, 493, 165738.	1.0	1

#	Article	IF	Citations
6550	A review on mechanistic understanding of MnO₂in aqueous electrolyte for electrical energy storage systems. International Materials Reviews, 2020, 65, 356-387.	9.4	121
6551	Interfacial modification for heightening the interaction between PEDOT and substrate towards enhanced flexible solid supercapacitor performance. Chemical Engineering Journal, 2020, 379, 122326.	6.6	52
6552	New conjugated organic matrix-carbon nanotube functionalization: DFT modeling and spectroscopic analysis. Journal of Physics and Chemistry of Solids, 2020, 136, 109131.	1.9	3
6553	NiCo₂S₄â€Based Composite Materials for Supercapacitors. ChemPlusChem, 2020, 85, 43-56.	1.3	46
6554	1D Supercapacitors for Emerging Electronics: Current Status and Future Directions. Advanced Materials, 2020, 32, e1902387.	11.1	158
6555	Hydrothermal synthesis of neodymium oxide nanoparticles and its nanocomposites with manganese oxide as electrode materials for supercapacitor application. Journal of Alloys and Compounds, 2020, 815, 152104.	2.8	43
6556	Hierarchical CoGa layered double hydroxides grown on nickel foam as high energy density hybrid supercapacitor. Chemical Engineering Journal, 2020, 381, 122620.	6.6	30
6557	Phosphate ion functionalized Co3O4 nanosheets/RGO with improved electrochemical performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124232.	2.3	5
6558	One-step hydrothermal synthesis of GQDs-MoS2 nanocomposite with enhanced supercapacitive performance. Journal of Applied Electrochemistry, 2020, 50, 71-79.	1.5	14
6559	Ion dynamics and dielectric relaxation behavior of PVA-PVP-NaI-SiO2 based nano-composites polymer blend electrolytes. Physica B: Condensed Matter, 2020, 578, 411850.	1.3	28
6560	New Barium Vanadate Ba_xV₂O₅ (x â‰ˆ 0.16) for Fast Lithium Intercalation: Lower Symmetry for Higher Flexibility and Electrochemical Durability. Small Methods, 2020, 4, 1900585.	4.6	11
6561	Rational design of a PC3 monolayer: A high-capacity, rapidly charging anode material for sodium-ion batteries. Carbon, 2020, 157, 420-426.	5.4	49
6562	Ni-rich LiNi0.88Mn0.06Co0.06O2 cathode interwoven by carbon fiber with improved rate capability and stability. Journal of Power Sources, 2020, 447, 227344.	4.0	24
6563	MOFs and COFs for Batteries and Supercapacitors. Electrochemical Energy Reviews, 2020, 3, 81-126.	13.1	98
6564	1T-MoS2 nanotubes wrapped with N-doped graphene as highly-efficient absorbent and electrocatalyst for Liâ€“S batteries. Journal of Power Sources, 2020, 447, 227364.	4.0	103
6565	An overview on efforts to enhance the Si electrode stability for lithium ion batteries. Energy Storage, 2020, 2, e94.	2.3	16
6566	Colloidal metal oxides in energy technologies. , 2020, , 183-201.		0
6567	Fabrication of 3D and 4D polymer micro- and nanostructures based on electrospinning. , 2020, , 191-229.		6

#	Article	IF	Citations
6568	Pd-based nanoparticles: Plant-assisted biosynthesis, characterization, mechanism, stability, catalytic and antimicrobial activities. Advances in Colloid and Interface Science, 2020, 276, 102103.	7.0	140
6569	Post-annealing tailored 3D cross-linked TiNb2O7 nanorod electrode: towards superior lithium storage for flexible lithium-ion capacitors. Science China Materials, 2020, 63, 492-504.	3.5	22
6570	Porous architectures assembled with ultrathin Cu2Oâ€“Mn3O4 hetero-nanosheets vertically anchoring on graphene for high-rate lithium-ion batteries. Journal of Alloys and Compounds, 2020, 819, 152969.	2.8	19
6571	Composition Modulation of Pt-Based Nanowire Electrocatalysts Enhances Methanol Oxidation Performance. Inorganic Chemistry, 2020, 59, 1376-1382.	1.9	11
6572	Progress in supercapacitors: roles of two dimensional nanotubular materials. Nanoscale Advances, 2020, 2, 70-108.	2.2	164
6573	Synthesis and Electrochemical Properties of CuC2O4Â·xH2O and CuC2O4Â·xH2O/Carbon Nanotubes (CNTs) Anodes for Lithium-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2020, 20, 1740-1748.	0.9	2
6574	Exploring organo-palladium(II) complexes as novel organometallic materials for Li-ion batteries. Electrochimica Acta, 2020, 337, 135659.	2.6	6
6575	Selenium-rich nickel cobalt bimetallic selenides with coreâ€“shell architecture enable superior hybrid energy storage devices. Nanoscale, 2020, 12, 4040-4050.	2.8	61
6576	Synthesis of Benzoxazine-Based N-Doped Mesoporous Carbons as High-Performance Electrode Materials. Applied Sciences (Switzerland), 2020, 10, 422.	1.3	13
6577	Bioinspired hierarchical cross-linked grapheneâ€“silicon nanofilms via synergistic interfacial interactions as integrated negative electrodes for high-performance lithium storage. Physical Chemistry Chemical Physics, 2020, 22, 2105-2114.	1.3	8
6578	Voltage issue of aqueous rechargeable metal-ion batteries. Chemical Society Reviews, 2020, 49, 180-232.	18.7	522
6579	Structural evolution from layered Na₂Ti₃O₇ to Na₂Ti₆O₁₃ nanowires enabling a highly reversible anode for Mg-ion batteries. Nanoscale, 2020, 12, 230-238.	2.8	30
6580	Structural phase transformation from SnS₂/reduced graphene oxide to SnS/sulfur-doped graphene and its lithium storage properties. Nanoscale, 2020, 12, 1697-1706.	2.8	29
6581	Graphene quantum dots for energy storage and conversion: from fabrication to applications. Materials Chemistry Frontiers, 2020, 4, 421-436.	3.2	96
6582	Stable artificial solid electrolyte interphase films for lithium metal anode via metalâ€“organic frameworks cemented by polyvinyl alcohol. Journal of Materials Chemistry A, 2020, 8, 251-258.	5.2	72
6583	Bridged triarylboranes, â€silanes, â€amines, and â€phosphines as minimalistic heteroatomâ€containing polycyclic aromatic hydrocarbons: Progress and challenges. Journal of Physical Organic Chemistry, 2020, 33, e4022.	0.9	34
6584	Design and Functions of Macromolecular Electron-Reservoir Complexes and Devices. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 111-120.	1.9	4
6585	Graphene encapsulated iron nitrides confined in 3D carbon nanosheet frameworks for high-rate lithium ion batteries. Carbon, 2020, 159, 213-220.	5.4	49

#	Article	IF	Citations
6586	Low-temperature electrical and magnetic properties of La0.6Sr0.4Co0.2Fe0.8O3-Î´ nanofibers prepared by electrospinning. Ceramics International, 2020, 46, 9389-9395.	2.3	8
6587	Chitosan-grafted-polyaniline copolymer as an electrically conductive and mechanically stable binder for high-performance Si anodes in Li-ion batteries. Electrochimica Acta, 2020, 333, 135532.	2.6	54
6588	Facile synthesis of nanoparticles anchored on honeycomb-like MnCo2S4 nanostructures as a binder-free electroactive material for supercapacitors. Journal of Energy Storage, 2020, 27, 101159.	3.9	23
6589	Self-catalytic approach to construct graphitized carbon shell for metal oxide: In-situ triggering mechanism and high-performance lithium-ion batteries applications. Journal of Power Sources, 2020, 450, 227631.	4.0	14
6590	Synthesis and electrochemical performances of platinum decorated polydopamine-coated carbon nanotubes/graphene composites as fuel cell catalysts. Journal of Alloys and Compounds, 2020, 822, 153586.	2.8	12
6591	Understanding capacitive deionization performance by comparing its electrical response with an electrochemical supercapacitor: Strategies to boost round-trip efficiency. Electrochimica Acta, 2020, 330, 135216.	2.6	9
6592	Supercapacitor nanomaterials. , 2020, , 295-324.		6
6593	Electricâ€Fieldâ€Assisted Enhanced Electron Transfer to Boost Supercapacitor Negative Electrode Performance for a Fabricated Fe₇S₈/Î±â€FeOOH Nanoâ€Heterostructure. Advanced Electronic Materials, 2020, 6, 1900953.	2.6	12
6594	WS₂/Graphene Composite as Cathode for Rechargeable Aluminum-Dual Ion Battery. Journal of the Electrochemical Society, 2020, 167, 070501.	1.3	32
6595	In-situ synthesis of amorphous Mg(BH4)2 and chloride composite modified by NbF5 for superior reversible hydrogen storage properties. International Journal of Hydrogen Energy, 2020, 45, 2044-2053.	3.8	28
6596	Orbital Selectivity and magnetic ordering in Fe intercalated dirac semimetal Bi2Se3. Journal of Magnetism and Magnetic Materials, 2020, 499, 166294.	1.0	3
6597	Coupling of a conductive Ni₃(2,3,6,7,10,11-hexaiminotriphenylene)₂ metalâ€“organic framework with silicon nanoparticles for use in high-capacity lithium-ion batteries. Nanoscale, 2020, 12, 1629-1642.	2.8	37
6598	Lithium intercalation drives mechanical properties deterioration in bulk and single-layered black phosphorus: a first-principles study. 2D Materials, 2020, 7, 025028.	2.0	10
6599	Highly dispersed Co nanoparticles decorated on a N-doped defective carbon nano-framework for a hybrid Naâ€“air battery. Dalton Transactions, 2020, 49, 1811-1821.	1.6	43
6600	Single-step solid-state synthesis and characterization of Li₄Ti_{5â”x}Fe_xO_{12â”y} (0 â‰¤ x â‰¤ 0.1) as an anode for lithium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 2627-2636.	5.2	28
6601	A simple, low-cost and scale-up synthesis strategy of spherical-graphite/Fe2O3 composites as high-performance anode materials for half/full lithium ion batteries. Journal of Alloys and Compounds, 2020, 822, 153719.	2.8	38
6602	Hierarchical Porous RGO/PEDOT/PANI Hybrid for Planar/Linear Supercapacitor with Outstanding Flexibility and Stability. Nano-Micro Letters, 2020, 12, 17.	14.4	50
6603	VxOy nanoparticles and activated charcoalÂbased nanocomposite for supercapacitor electrode application. Ionics, 2020, 26, 2581-2598.	1.2	7

#	Article	IF	Citations
6604	Self-supported GaN nanowires with cation-defects, lattice distortion, and abundant active sites for high-rate lithium-ion storage. Nano Energy, 2020, 68, 104376.	8.2	33
6605	Geometry and charging rate sensitively modulate surface stress-induced stress relaxation within cylindrical silicon anode particles in lithium-ion batteries. Acta Mechanica, 2020, 231, 999-1019.	1.1	13
6606	Layer-by-layer growth of ZIF-8 on electrospun carbon nanofiber membranes for high-performance supercapacistor electrode. Journal of Energy Chemistry, 2020, 47, 221-224.	7.1	14
6607	Continuous-Flow Synthesis of Carbon-Coated Silicon/Iron Silicide Secondary Particles for Li-Ion Batteries. ACS Nano, 2020, 14, 698-707.	7.3	58
6608	Boosting Superior Lithium Storage Performance of Alloyâ€Based Anode Materials via Ultraconformal Sb Coatingâ€“Derived Favorable Solidâ€Electrolyte Interphase. Advanced Energy Materials, 2020, 10, 1903186.	10.2	29
6609	Highly safe and ionothermal synthesis of Ti3C2 MXene with expanded interlayer spacing for enhanced lithium storage. Journal of Energy Chemistry, 2020, 47, 203-209.	7.1	91
6610	Nano/Microstructured Siliconâ€“Carbon Hybrid Composite Particles Fabricated with Corn Starch Biowaste as Anode Materials for Li-Ion Batteries. Nano Letters, 2020, 20, 625-635.	4.5	164
6611	Remarkable electrocatalytic CO2 reduction with ultrahigh CO/H2 ratio over single-molecularly immobilized pyrrolidinonyl nickel phthalocyanine. Applied Catalysis B: Environmental, 2020, 264, 118530.	10.8	77
6612	Angular dependence of the magnetic properties of Permalloy nanowire arrays: A comparative analysis between experiment and simulation. Journal of Magnetism and Magnetic Materials, 2020, 499, 166240.	1.0	15
6613	Layered Metal Hydroxides and Their Derivatives: Controllable Synthesis, Chemical Exfoliation, and Electrocatalytic Applications. Advanced Energy Materials, 2020, 10, 1902535.	10.2	90
6614	Microfluidicâ€Architected Nanoarrays/Porous Coreâ€“Shell Fibers toward Robust Microâ€Energyâ€Storage. Advanced Science, 2020, 7, 1901931.	5.6	47
6616	Freestanding Single-Atom-Layer Pd-Based Catalysts: Oriented Splitting of Energy Bands for Unique Stability and Activity. CheM, 2020, 6, 431-447.	5.8	70
6617	MnO₂encapsulated electrospun TiO₂nanofibers as electrodes for asymmetric supercapacitors. Nanotechnology, 2020, 31, 125401.	1.3	31
6618	Low-temperature synthesis of CeB6 nanowires and nanoparticles as feasible lithium-ion anode materials. Advanced Powder Technology, 2020, 31, 595-603.	2.0	15
6619	CoTiO3/NrGO nanocomposites for oxygen evolution and oxygen reduction reactions: Synthesis and electrocatalytic performance. Electrochimica Acta, 2020, 331, 135396.	2.6	30
6620	Rational Design of Porous Structured Nickel Manganese Sulfides Hexagonal Sheetsâ€inâ€Cage Structures as an Advanced Electrode Material for Highâ€Performance Electrochemical Capacitors. Chemistry - A European Journal, 2020, 26, 2251-2262.	1.7	35
6621	Hierarchical Engineering of Porous P2â€Na_{2/3}Ni_{1/3}Mn_{2/3}O₂ Nanofibers Assembled by Nanoparticles Enables Superior Sodiumâ€Ion Storage Cathodes. Advanced Functional Materials, 2020, 30, 1907837.	7.8	117
6622	Electrode Engineering by Atomic Layer Deposition for Sodiumâ€Ion Batteries: From Traditional to Advanced Batteries. Advanced Functional Materials, 2020, 30, 1906890.	7.8	36

#	Article	IF	Citations
6623	Progress, Outlook, and Challenges in Leadâ€Free Energyâ€Storage Ferroelectrics. Advanced Electronic Materials, 2020, 6, 1900698.	2.6	154
6624	A novel Sn particles coated composite of SnO /ZnO and N-doped carbon nanofibers as high-capacity and cycle-stable anode for lithium-ion batteries. Journal of Alloys and Compounds, 2020, 819, 153036.	2.8	34
6625	N, S codoped activated mesoporous carbon derived from the Datura metel seed pod as active electrodes for supercapacitors. Diamond and Related Materials, 2020, 102, 107687.	1.8	26
6626	Supercapacitor Electrode. Formation Based on Thoil-Functionalized Graphene Oxide. Russian Journal of Applied Chemistry, 2020, 93, 1160-1171.	0.1	3
6627	GeTe-TiC-C Composite Anodes for Li-Ion Storage. Materials, 2020, 13, 4222.	1.3	14
6628	Application of organic-inorganic hybrids in lithium batteries. Materials Today Physics, 2020, 15, 100289.	2.9	15
6629	A scalable synthesis of 2D laminate Li₃VO₄/C for robust pseudocapacitive Li-ion storage. Journal of Materials Chemistry A, 2020, 8, 21122-21130.	5.2	44
6630	Local structure engineering for active sites in fuel cell electrocatalysts. Science China Chemistry, 2020, 63, 1543-1556.	4.2	11
6631	Recent Advances in Transition Metal Carbide Electrocatalysts for Oxygen Evolution Reaction. Catalysts, 2020, 10, 1164.	1.6	43
6632	Microclusters of Kinked Silicon Nanowires Synthesized by a Recyclable Iodide Process for Highâ€Performance Lithiumâ€Ion Battery Anodes. Advanced Energy Materials, 2020, 10, 2002108.	10.2	57
6633	Electrolyte-mediated nanograin intermetallic formation enables superionic conduction and electrode stability in rechargeable batteries. Energy Storage Materials, 2020, 33, 164-172.	9.5	17
6634	Three-dimensional Al-substituted quasi-concentration gradient Ni-Co layered double hydroxide nanosheets for high-performance asymmetric supercapacitors. Materials Today Energy, 2020, 18, 100514.	2.5	11
6635	Defective Carbon Nanocone as an Anode Material for Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 11463-11469.	2.5	17
6636	PtMn/PtCo alloy nanofascicles: robust electrocatalysts for electrocatalytic hydrogen evolution reaction under both acidic and alkaline conditions. Inorganic Chemistry Frontiers, 2020, 7, 4377-4386.	3.0	25
6637	Uncovering the Chemistry of Cross-Linked Polymer Binders via Chemical Bonds for Silicon-Based Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 47164-47180.	4.0	26
6638	Flexible and additive-free organic electrodes for aqueous sodium ion batteries. Journal of Materials Chemistry A, 2020, 8, 22791-22801.	5.2	20
6639	Key technologies for polymer electrolyte membrane fuel cell systems fueled impure hydrogen. Progress in Natural Science: Materials International, 2020, 30, 751-763.	1.8	37
6640	NiCo2S4 on yeast-templated porous hollow carbon spheres for supercapacitors. Journal of Materials Research and Technology, 2020, 9, 13718-13728.	2.6	19

#	Article	IF	Citations
6641	Enhanced Electrochemistry of Carbon Supported Functionalized Nanocomposite Cathode for Aqueous Lithiumâ€ion Batteries. Electroanalysis, 2020, 32, 2976-2981.	1.5	6
6642	Dual crosslinked binders based on poly(2-hydroxyethyl methacrylate) and polyacrylic acid for silicon anode in lithium-ion battery. Electrochimica Acta, 2020, 359, 136967.	2.6	27
6643	Hierarchical nanostructured Auâ€“SnO2 for enhanced energy storage performance. International Journal of Hydrogen Energy, 2020, 45, 29395-29406.	3.8	12
6644	Using of various metal species for improvement of electrochemical performances of lithium sulfur batteries. Journal of Electroanalytical Chemistry, 2020, 878, 114652.	1.9	8
6645	Potential of porous nodal-line semi-metallic carbon for sodium-ion battery anode. Journal of Power Sources, 2020, 478, 228746.	4.0	14
6646	Electrolyte-Phobic Surface for the Next-Generation Nanostructured Battery Electrodes. Nano Letters, 2020, 20, 7455-7462.	4.5	25
6647	Hybrid-atom-doped NiMoO₄ nanotubes for oxygen evolution reaction. New Journal of Chemistry, 2020, 44, 17477-17482.	1.4	17
6648	Alleviating the shuttle effect via bifunctional MnFe2O4/AB modified separator for high performance lithium sulfur battery. Electrochimica Acta, 2020, 354, 136704.	2.6	24
6649	Multifunctional metal-free rechargeable polymer composite nanoparticles boosted by CO2. Materials Today Sustainability, 2020, 10, 100048.	1.9	0
6650	Nanostructured Electrode Enabling Fast and Fully Reversible MnO₂-to-Mn²⁺ Conversion in Mild Buffered Aqueous Electrolytes. ACS Applied Energy Materials, 2020, 3, 7610-7618.	2.5	23
6651	A pHâ€Neutral, Aqueous Redox Flow Battery with a 3600â€Cycle Lifetime: Micellizationâ€Enabled High Stability and Crossover Suppression. ChemSusChem, 2020, 13, 4069-4077.	3.6	25
6652	Periodic Silver and Gold Nanodot Array Fabrication on Nanosphere Lithography-Based Patterns Using Electroless Deposition. Journal of Physical Chemistry C, 2020, 124, 15646-15655.	1.5	11
6653	Electrodeposited binder-free Sb/NiSb anode of sodium-ion batteries with excellent cycle stability and rate capability and new insights into its reaction mechanism by operando XRD analysis. Nano Energy, 2020, 77, 105123.	8.2	51
6654	An intuitive review of supercapacitors with recent progress and novel device applications. Journal of Energy Storage, 2020, 31, 101652.	3.9	160
6655	First-Principles Understanding of the Staging Properties of the Graphite Intercalation Compounds towards Dual-Ion Battery Applications. ACS Omega, 2020, 5, 18289-18300.	1.6	27
6656	FeNiS_x@MoS₂ Heterostructure: A Bioinspired Nonprecious Electrocatalyst for the Hydrogen Evolution Reaction in Acidic and Basic Media. ChemElectroChem, 2020, 7, 3324-3335.	1.7	9
6657	Nanostructured conducting polymers and their composites: synthesis methodologies, morphologies and applications. Journal of Materials Chemistry C, 2020, 8, 10136-10159.	2.7	53
6658	Large-scale synthesis of highly structural-connecting carbon nanospheres as an anodes material for lithium-ion batteries with high-rate capacity. Chemical Engineering Journal Advances, 2020, 2, 100014.	2.4	5

#	Article	IF	Citations
6659	Steadyâ€State Electrocatalytic Activity Evaluation with the Redox Competition Mode of Scanning Electrochemical Microscopy: A Gold Probe and a Boronâ€Doped Diamond Substrate. ChemElectroChem, 2020, 7, 4633-4640.	1.7	10
6660	Suppressing the Shuttling of Polysulfide by a Self-Assembled FeOOH Separator in Liâ€“S Batteries. Industrial & Engineering Chemistry Research, 2020, 59, 21066-21076.	1.8	8
6661	Materials Combining Asymmetric Pore Structures with Well-Defined Mesoporosity for Energy Storage and Conversion. ACS Nano, 2020, 14, 16897-16906.	7.3	18
6662	Improved Ionic Conductivity and Li Dendrite Suppression Capability toward Li₇P₃S₁₁-Based Solid Electrolytes Triggered by Nb and O Cosubstitution. ACS Applied Materials & Interfaces, 2020, 12, 54662-54670.	4.0	50
6663	A simple Ce-doping strategy to enhance stability of hybrid symmetrical electrode for solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 29259-29270.	3.8	9
6664	Constructive versus Destructive Heterogeneity in Porous Electrodes of Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 11820-11829.	2.5	21
6665	Metal oxides nanostructure-based electrode materials for supercapacitor application. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	30
6666	Recent Advances in Catalyst Development for Transesterification of Dialkyl Carbonates with Phenol. Industrial & Engineering Chemistry Research, 2020, 59, 20630-20645.	1.8	3
6667	3D printed platform for testing supercapacitor materials. Materials Today: Proceedings, 2020, , .	0.9	0
6668	Metalâ€“Organic Framework/Polyaniline Nanocomposites for Lightweight Energy Storage. ACS Applied Energy Materials, 2020, 3, 12368-12377.	2.5	29
6669	MoS2/graphene composites: Fabrication and electrochemical energy storage. Energy Storage Materials, 2020, 33, 470-502.	9.5	85
6670	Structural, electrical and radiation shielding propertiesÂof polyvinyl alcohol doped with different nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 15192-15197.	1.1	12
6671	Investigating the role of crystallographic orientation of single crystalline silicon on their electrochemical lithiation behavior: Surface chemistry of Si determines the bulk lithiation. Surfaces and Interfaces, 2020, 20, 100585.	1.5	0
6672	An elaborate insight of lithiation behavior of V2O5 anode. Nano Energy, 2020, 78, 105233.	8.2	56
6673	Unique Structure-Induced Magnetic and Electrochemical Activity in Nanostructured Transition Metal Tellurates Co_{1Ââ€“Âx}Ni_xTeO₄ (x = 0, 0.5, and 1). ACS Applied Energy Materials, 2020, 3, 9436-9448.	2.5	10
6674	Electrochemical reaction mechanism for Bi2Te3-based anode material in highly durable all solid-state lithium-ion batteries. Journal of Materials Science: Materials in Electronics, 2020, 31, 16429-16436.	1.1	9
6675	Standardless determination of nanometric thicknesses in stratified samples by electron probe microanalysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 171, 105932.	1.5	4
6676	The Investigation for Thickness-Dependent Electrical Performance on BaTiO₃/BiFeO₃ Bilayer Ferromagnetic Capacitors. IEEE Transactions on Electron Devices, 2020, 67, 3417-3423.	1.6	3

#	Article	IF	Citations
6677	Highly efficient Co3O4/Co@NCs bifunctional oxygen electrocatalysts for long life rechargeable Zn-air batteries. Nano Energy, 2020, 77, 105200.	8.2	71
6678	An accurate and transferable machine learning potential for carbon. Journal of Chemical Physics, 2020, 153, 034702.	1.2	137
6679	Improving supercapacitive performance of CNTs/NiCo2S4 composites by interface regulation. Applied Surface Science, 2020, 530, 147317.	3.1	28
6680	Towards high energy density Liâ€“S batteries with high sulfur loading: From key issues to advanced strategies. Energy Storage Materials, 2020, 32, 320-355.	9.5	64
6681	Solid Polymer Electrolytes Derived from Crosslinked Polystyrene Nanoparticles Covalently Functionalized with a Low Lattice Energy Lithium Salt Moiety. ChemEngineering, 2020, 4, 44.	1.0	2
6682	Stable high-capacity and high-rate silicon-based lithium battery anodes upon two-dimensional covalent encapsulation. Nature Communications, 2020, 11, 3826.	5.8	193
6683	Recent progresses of 3D printing technologies for structural energy storage devices. Materials Today Nano, 2020, 12, 100094.	2.3	42
6684	Formation of hierarchical 3D cross-linked porous carbon with small addition of graphene for supercapacitors. International Journal of Hydrogen Energy, 2020, 45, 27471-27481.	3.8	20
6685	Preparation of room temperature liquid metal negative electrode for lithium ion battery in one step stirring. Materials Letters, 2020, 276, 128261.	1.3	7
6686	Enhancing Lithium Storage Performances of the Li₄Ti₅O₁₂Anode by Introducing the CuV₂O₆Phase. ACS Applied Materials & Interfaces, 2020, 12, 39170-39180.	4.0	27
6687	Laser Synthesis of MOF-Derived Ni@Carbon for High-Performance Pseudocapacitors. ACS Applied Materials & Interfaces, 2020, 12, 39154-39162.	4.0	56
6688	Co₃O₄ Nanosheets as Battery-Type Electrode for High-Energy Li-Ion Capacitors: A Sustained Li-Storage via Conversion Pathway. ACS Nano, 2020, 14, 10648-10654.	7.3	52
6689	Convenient fabrication of a coreâ€“shell Sn@TiO₂ anode for lithium storage from tinplate electroplating sludge. Chemical Communications, 2020, 56, 10187-10190.	2.2	16
6690	In situ fabrication of W-doped SnO2 nanoparticles anchored in ultrathin graphite nanosheets as high performance anode material for lithium ion batteries. Applied Surface Science, 2020, 533, 147508.	3.1	9
6691	Comparative Study on Sulfide and Oxide Electrolyte Interfaces with Cathodes in All-Solid-State Battery via First-Principles Calculations. ACS Applied Energy Materials, 2020, 3, 11061-11072.	2.5	19
6692	Electrospun Mn2O3 web electrodes: Influence of fabrication parameters on electrochemical performance. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 062401.	0.6	2
6693	Inâ€SituÂSynthesis Graphene Supported TiO₂ Nanosheets with Superior Cyclic and Rate Performance for Lithiumâ€Ion Batteries. ChemistrySelect, 2020, 5, 12425-12429.	0.7	6
6694	Formation and stability of small polarons at the lithium-terminated Li4Ti5O12 (LTO) (111) surface. Journal of Chemical Physics, 2020, 153, 144701.	1.2	7

#	Article	IF	Citations
6695	Insights into magnesium borohydride dehydrogenation mechanism from its partial reversibility under moderate conditions. Materials Today Energy, 2020, 18, 100552.	2.5	4
6696	Intermetallic Pd₃X (X= Ti and Zr) nanocrystals for electro-oxidation of alcohols and formic acid in alkaline and acidic media. Science and Technology of Advanced Materials, 2020, 21, 573-583.	2.8	10
6697	Characterization of Molecular Spacer-Functionalized Nanostructured Carbons for Electrical Energy Storage Supercapacitor Materials. Journal of Carbon Research, 2020, 6, 66.	1.4	0
6698	Role of TiO2 Phase Composition Tuned by LiOH on The Electrochemical Performance of Dual-Phase Li4Ti5O12-TiO2 Microrod as an Anode for Lithium-Ion Battery. Energies, 2020, 13, 5251.	1.6	5
6699	Review of solid oxide fuel cell materials: cathode, anode, and electrolyte. Energy Transitions, 2020, 4, 113-126.	3.6	137
6700	Carbon coated iron oxide (CC-IO) as high performance electrode material for supercapacitor applications. Journal of Energy Storage, 2020, 32, 101737.	3.9	26
6701	Thermally Driven High-Rate Intercalated Pseudocapacitance of Flower-like Architecture of Ultrathin Few Layered Î´-MnO₂ Nanosheets on Carbon Nano-Onions. ACS Applied Energy Materials, 2020, 3, 11398-11409.	2.5	16
6702	Nanostructured materials for energy conversion and storage. , 2020, , 351-386.		0
6703	Emerging Potassiumâ€ion Hybrid Capacitors. ChemSusChem, 2020, 13, 5837-5862.	3.6	65
6704	Covalent Organic Frameworks as Negative Electrodes for Highâ€Performance Asymmetric Supercapacitors. Advanced Energy Materials, 2020, 10, 2001673.	10.2	107
6705	Correlating the Local Electrocatalytic Activity of Amorphous Molybdenum Sulfide Thin Films with Microscopic Composition, Structure, and Porosity. ACS Applied Materials & Interfaces, 2020, 12, 44307-44316.	4.0	27
6706	Magnetron sputtering enabled synthesis of nanostructured materials for electrochemical energy storage. Journal of Materials Chemistry A, 2020, 8, 20260-20285.	5.2	25
6707	Salt-mediated extraction of nanoscale Si building blocks: composite anode for Li-ion full battery with high energy density. Materials Advances, 2020, 1, 2797-2803.	2.6	1
6708	Nanoparticleâ€Based Electrodes with High Charge Transfer Efficiency through Ligand Exchange Layerâ€byâ€Layer Assembly. Advanced Materials, 2020, 32, e2001924.	11.1	22
6709	A conductive self healing polymeric binder using hydrogen bonding for Si anodes in lithium ion batteries. Scientific Reports, 2020, 10, 14966.	1.6	60
6710	Carbon Nanotubes@Nickel Cobalt Sulfide Nanosheets for Highâ€Performance Supercapacitors. ChemElectroChem, 2020, 7, 3663-3669.	1.7	15
6711	Synthesis of lithium manganese oxide nanocomposites using microwaveâ€assisted chemical precipitation technique and their performance evaluation in lithiumâ€ion batteries. Energy Storage, 2020, 2, e202.	2.3	9
6712	Recent advances in nanostructured metal phosphides as promising anode materials for rechargeable batteries. Journal of Materials Chemistry A, 2020, 8, 19113-19132.	5.2	61

#	Article	IF	Citations
6713	Synthesis, Characterization, Electrochemistry, and Inâ€…Situ Xâ€ray Diffraction Investigation of Ni₃(PO₄)₂ as a Negative Electrode Material for Lithiumâ€Ion Batteries. ChemElectroChem, 2020, 7, 3866-3873.	1.7	12
6714	Synergistic Bimetallic Metallic Organic Framework-Derived Ptâ€“Co Oxygen Reduction Electrocatalysts. ACS Nano, 2020, 14, 13069-13080.	7.3	82
6715	Overview of transition metal-based composite materials for supercapacitor electrodes. Nanoscale Advances, 2020, 2, 5516-5528.	2.2	96
6716	Hollow nanoparticle-assembled hierarchical NiCo₂O₄ nanofibers with enhanced electrochemical performance for lithium-ion batteries. Inorganic Chemistry Frontiers, 2020, 7, 4101-4112.	3.0	27
6717	Highly durable Li-ion battery anode from Fe3O4 nanoparticles embedded in nitrogen-doped porous carbon with improved rate capabilities. Journal of Materials Science, 2020, 55, 15667-15680.	1.7	9
6718	Coatingâ€Mediated Nanomechanical Behaviors of CuO Electrodes in Liâ€and Naâ€Ion Batteries. Advanced Materials Interfaces, 2020, 7, 2001161.	1.9	8
6719	Progress and Prospects of Transition Metal Sulfides for Sodium Storage. Advanced Fiber Materials, 2020, 2, 314-337.	7.9	74
6720	Photoinduced electron transfer in nanotubeâŠƒC₇₀ inclusion complexes: phenine vs. nanographene nanotubes. Chemical Communications, 2020, 56, 12624-12627.	2.2	16
6721	Nanomaterials in Dentistry: State of the Art and Future Challenges. Nanomaterials, 2020, 10, 1770.	1.9	26
6722	Trimetallic Nanoparticles: Greener Synthesis and Their Applications. Nanomaterials, 2020, 10, 1784.	1.9	59
6723	Structural Changes of Activated Carbon Electrodes for EDLCs in the Manufacturing Process. Transactions of Tianjin University, 2020, 26, 391-398.	3.3	5
6724	Emerging Metal Single Atoms in Electrocatalysts and Batteries. Advanced Functional Materials, 2020, 30, 2003870.	7.8	38
6725	Facile Fabrication of Polymer Electrolytes via Lithium Salt-Accelerated Thiol-Michael Addition for Lithium-Ion Batteries. Macromolecules, 2020, 53, 7450-7459.	2.2	19
6726	2D Nanostructured Materials for High Performance Electrochemical Supercapacitors. ACS Symposium Series, 2020, , 79-92.	0.5	3
6727	Novel Bifunctional Separator with a Self-Assembled FeOOH/Coated g-C₃N₄/KB Bilayer in Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 57859-57869.	4.0	23
6728	In-plane Î²-Co(OH)₂/Co₃O₄hybrid nanosheets for flexible all-solid-state thin-film supercapacitors with high electrochemical performance. Nanoscale, 2020, 12, 24251-24258.	2.8	13
6729	Fiber Electronics. , 2020, , .		4
6730	Rationalizing the Anion Storage in Cathodes for Optimum Dual-Ion Batteries: State of the Art and the Prospect. Energy & Fuels, 2020, 34, 15701-15713.	2.5	9

#	Article	IF	Citations
6731	Synergistic effect of hierarchical nanopores in Co-doped cobalt oxide 3D flowers for electrochemical energy storage. RSC Advances, 2020, 10, 43825-43833.	1.7	5
6732	A Sheet-like SnO2@SiO2/graphite Composite as Anode Material with Excellent Performance for Lithium-Ion Batteries. International Journal of Electrochemical Science, 2020, , 10173-10183.	0.5	2
6733	Development of a Method to Determine the Fractional Deposition Efficiency of Full-Scale HVAC and HEPA Filter Cassettes for Nanoparticles â‰¥3.5 nm. Atmosphere, 2020, 11, 1191.	1.0	6
6734	An Adhesive Peptide from the C-Terminal Domain of Î±-Synuclein for Single-Layer Adsorption of Nanoparticles onto Substrates. Bioconjugate Chemistry, 2020, 31, 2759-2766.	1.8	3
6735	Recent Progress and Challenges of Electron Transport Layers in Organicâ€“Inorganic Perovskite Solar Cells. Energies, 2020, 13, 5572.	1.6	66
6736	Enhancing conductivity and stabilizing structure of the TiN/SnO2 embedded in ultrathin graphite nanosheets as a high performance anode material for lithium ion batteries. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 607, 125467.	2.3	6
6737	Ultralow Ru-Induced Bimetal Electrocatalysts with a Ru-Enriched and Mixed-Valence Surface Anchored on a Hollow Carbon Matrix for Oxygen Reduction and Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 51437-51447.	4.0	56
6738	Rolled Supercapacitor Device Model Using Carbon-Sheet as Electrodes in KCl Electrolyte System. Key Engineering Materials, 2020, 860, 53-58.	0.4	2
6739	Anatase TiO₂ with Coâ€exposed (001) and (101) Surfaceâ€Based Photocatalytic Materials for Energy Conversion and Environmental Purification. Chemistry - an Asian Journal, 2020, 15, 4168-4183.	1.7	10
6740	Self-assembled synthesis of waxberry-like open hollow NiCo2S4 with enhanced capacitance for high-performance hybrid asymmetric supercapacitors. Electrochimica Acta, 2020, 347, 136314.	2.6	38
6741	In-situ synthesis TiO2 nanosheets@rGO for ultrafast sodium ion storage at both room and low temperatures. Journal of Alloys and Compounds, 2020, 835, 155413.	2.8	14
6742	Enhancement of mechanical properties of vertically aligned carbon nanotube arrays due to N⁺ ion irradiation. Nanotechnology, 2020, 31, 285703.	1.3	3
6743	Recent progress on germanium-based anodes for lithium ion batteries: Efficient lithiation strategies and mechanisms. Energy Storage Materials, 2020, 30, 146-169.	9.5	80
6744	Transparent Flexible Heteroepitaxy of NiO Coated AZO Nanorods Arrays on Muscovites for Enhanced Energy Storage Application. Small, 2020, 16, 2000020.	5.2	10
6745	Role of Electrolytes in the Stability and Safety of Lithium Titanate-Based Batteries. Frontiers in Materials, 2020, 7, .	1.2	17
6746	Investigation into the Atomistic Scale Mechanisms Responsible for the Enhanced Dielectric Response in the Interfacial Region of Polymer Nanocomposites. Journal of Physical Chemistry C, 2020, 124, 11558-11563.	1.5	12
6747	N-Doped 3D hierarchical carbon from resorcinolâ€“formaldehydeâ€“melamine resin for high-performance supercapacitors. New Journal of Chemistry, 2020, 44, 8638-8649.	1.4	21
6748	Engineering of a Lowâ€Cost, Highly Active, and Durable Tantalateâ€“Graphene Hybrid Electrocatalyst for Oxygen Reduction. Advanced Energy Materials, 2020, 10, 2000075.	10.2	21

#	Article	IF	Citations
6749	Ge Nanocages and Nanoparticles via Microwave-Assisted Galvanic Replacement for Energy Storage Applications. ACS Applied Nano Materials, 2020, 3, 5509-5520.	2.4	2
6750	Appropriate Use of Electrochemical Impedance Spectroscopy in Water Splitting Electrocatalysis. ChemElectroChem, 2020, 7, 2297-2308.	1.7	154
6751	Toward Practical All-solid-state Batteries with Sulfide Electrolyte: A Review. Chemical Research in Chinese Universities, 2020, 36, 377-385.	1.3	24
6752	The success story of graphite as a lithium-ion anode material â€“ fundamentals, remaining challenges, and recent developments including silicon (oxide) composites. Sustainable Energy and Fuels, 2020, 4, 5387-5416.	2.5	608
6753	Experimental and theoretical investigations of the effect of heteroatom-doped carbon microsphere supports on the stability and storage capacity of nano-Co₃O₄ conversion anodes for application in lithium-ion batteries. Nanoscale Advances, 2020, 2, 2914-2924.	2.2	7
6754	Co3O4@MnMoO4 Nanorod Clusters as an Electrode Material for Superior Supercapacitors. International Journal of Electrochemical Science, 2020, 15, 2776-2791.	0.5	7
6755	Spontaneous and reversible hollowing of alloy anode nanocrystals for stable battery cycling. Nature Nanotechnology, 2020, 15, 475-481.	15.6	68
6756	Polymer Materials for Highâ€Performance Triboelectric Nanogenerators. Advanced Science, 2020, 7, 2000186.	5.6	230
6757	Aqueous-Eutectic-in-Salt Electrolytes for High-Energy-Density Supercapacitors with an Operational Temperature Window of 100 Â°C, from â˜'35 to +65 Â°C. ACS Applied Materials & Interfaces, 2020, 12, 29181-29193.	4.0	10
6758	Bimetallic Cobaltâ€“Nickel Selenide@PolypyrroleCoreâ€“Shell Nanotubes on NickelFoam as Highâ€“Performance Electrode Material for Supercapacitors. International Journal of Electrochemical Science, 2020, 15, 2923-2934.	0.5	8
6759	Bismuth-Ferrite-Based Electrochemical Supercapacitors. SpringerBriefs in Materials, 2020, , .	0.1	7
6760	Fabrication of all-solid-state textile supercapacitors based on industrial-grade multi-walled carbon nanotubes for enhanced energy storage. Journal of Materials Science, 2020, 55, 10121-10141.	1.7	20
6761	Aluminum phosphide as a high-performance lithium-ion battery anode. Journal of Power Sources, 2020, 465, 228262.	4.0	16
6762	Tuning the carrier density of TiO2 nanotube arrays by controlling the oxygen vacancies for improved areal capacitance in supercapacitor applications. Materials Chemistry and Physics, 2020, 248, 122925.	2.0	25
6763	A review on Fe O -based materials for advanced lithium-ion batteries. Renewable and Sustainable Energy Reviews, 2020, 127, 109884.	8.2	36
6764	Hierarchical graphene-scaffolded mesoporous germanium dioxide nanostructure for high-performance flexible lithium-ion batteries. Energy Storage Materials, 2020, 29, 198-206.	9.5	12
6765	High specific energy ternary nanocmposite polyaniline:Manganeese dioxide@ MWCNT electrode for asymmetric supercapacitor. Journal of Energy Storage, 2020, 29, 101411.	3.9	11
6766	Dielectric Properties, Thermal Characteristics and Degradation Kinetics of PMMA Nanodielectrics. Materials Today: Proceedings, 2020, 24, 772-781.	0.9	4

#	Article	IF	Citations
6767	Enhanced electrochemical performance of boron-doped graphene-decorated LiFePO4@C cathode material for lithium-ion batteries. Solid State Ionics, 2020, 352, 115366.	1.3	22
6768	Stability of Colloidal Iron Oxide Nanoparticles on Titania and Silica Support. Chemistry of Materials, 2020, 32, 5226-5235.	3.2	6
6769	Ultrafast Growth of a Cu(OH)₂â€“CuO Nanoneedle Array on Cu Foil for Methanol Oxidation Electrocatalysis. ACS Applied Materials & Interfaces, 2020, 12, 27327-27338.	4.0	95
6770	Theoretical insights into the surface physics and chemistry of redox-active oxides. Nature Reviews Materials, 2020, 5, 460-475.	23.3	89
6771	Surface controlled pseudo-capacitive reactions enabling ultra-fast charging and long-life organic lithium ion batteries. Sustainable Energy and Fuels, 2020, 4, 4179-4185.	2.5	30
6772	Monodispersed LiFePO₄@C Core-Shell Nanoparticles Anchored on 3D Carbon Cloth for High-Rate Performance Binder-Free Lithium Ion Battery Cathode. Journal of Nanomaterials, 2020, 2020, 1-11.	1.5	4
6773	Realâ€Time Reconstruction of Arbitrary Slices for Quantitative and In Situ 3D Characterization of Nanoparticles. Particle and Particle Systems Characterization, 2020, 37, 2000073.	1.2	12
6774	Conversion Reaction in the Binder-Free Anode for Fast-Charging Li-Ion Batteries Based on WO₃ Nanorods. ACS Applied Energy Materials, 2020, 3, 6700-6708.	2.5	20
6775	Red-phosphorus-impregnated carbon nanofibers for sodium-ion batteries and liquefaction of red phosphorus. Nature Communications, 2020, 11, 2520.	5.8	77
6776	Sizeâ€Mediated Recurring Spinel Subâ€nanodomains in Liâ€and Mnâ€Rich Layered Cathode Materials. Angewandte Chemie, 2020, 132, 14419-14426.	1.6	9
6777	Sizeâ€Mediated Recurring Spinel Subâ€nanodomains in Liâ€and Mnâ€Rich Layered Cathode Materials. Angewandte Chemie - International Edition, 2020, 59, 14313-14320.	7.2	46
6778	Metalâ€Chelated Biomimetic Polyelectrolyte as a Powerful Binder for Highâ€Performance Micron Silicon Anodes. Energy Technology, 2020, 8, 2000278.	1.8	15
6779	Improved electrochemical properties and kinetics of an LiMn₂O₄-based cathode co-modifiedviaCu doping with truncated octahedron morphology. New Journal of Chemistry, 2020, 44, 10569-10577.	1.4	21
6780	Nitrogen and high oxygen-containing metal-free porous carbon nanosheets for supercapacitor and oxygen reduction reaction applications. Nano Express, 2020, 1, 010036.	1.2	8
6781	Shape adaptable and highly resilient 3D braided triboelectric nanogenerators as e-textiles for power and sensing. Nature Communications, 2020, 11, 2868.	5.8	285
6783	Morphosynthesis of SnO2 nanocrystal networks as high-capacity anodes for lithium ion batteries. Ionics, 2020, 26, 3841-3851.	1.2	14
6784	Mo2C quantum dots@graphene functionalized separator toward high-current-density lithium metal anodes for ultrastable Li-S batteries. Chemical Engineering Journal, 2020, 399, 125837.	6.6	105
6785	Surface nitrided and carbon coated TiNb2O7 anode material with excellent performance for lithium-ion batteries. Journal of Alloys and Compounds, 2020, 835, 155241.	2.8	20

#	Article	IF	Citations
6786	Double perovskite La2CoMnO6 hollow spheres prepared by template impregnation for high-performance supercapacitors. Chemical Engineering Journal, 2020, 400, 125966.	6.6	92
6787	Pristine MOF and COF materials for advanced batteries. Energy Storage Materials, 2020, 31, 115-134.	9.5	149
6788	Sulfur Incorporation in Hierarchical TiO₂ Nanosheet/Carbon Nanotube Hybrids for Improved Lithium Storage Performance. ChemElectroChem, 2020, 7, 2905-2916.	1.7	6
6789	Effect of hydrophilicity on water transport through sub-nanometer pores. Journal of Membrane Science, 2020, 611, 118297.	4.1	28
6790	Lithium-ion insertion kinetics of Na-doped Li2TiSiO5 as anode materials for lithium-ion batteries. Journal of Materials Science and Technology, 2020, 57, 18-25.	5.6	11
6791	Defect induced ferromagnetism in NiO nanocrystals: Insight from experimental and DFT+U study. Physica B: Condensed Matter, 2020, 593, 412319.	1.3	9
6792	A general method to synthesize a MoC/C composite material with potential application as an anodic material in lithium-ion batteries. Ionics, 2020, 26, 4869-4875.	1.2	4
6793	Understanding the electrochemistry of â€œwater-in-saltâ€•electrolytes: basal plane highly ordered pyrolytic graphite as a model system. Chemical Science, 2020, 11, 6978-6989.	3.7	36
6794	Scalable 3D porous residual Al-doped Si/SiOx composites for high performance anodes: Coupling effects of porosity, conductive sites and oxide layer. Electrochimica Acta, 2020, 353, 136538.	2.6	22
6795	CuCo₂S₄â€“rGO Microflowers: Firstâ€Principle Calculation and Application in Energy Storage. Small, 2020, 16, e2001468.	5.2	39
6796	Fast Charging Materials for High Power Applications. Advanced Energy Materials, 2020, 10, 2001128.	10.2	136
6797	Graphene Quantum Dotsâ€Based Advanced Electrode Materials: Design, Synthesis and Their Applications in Electrochemical Energy Storage and Electrocatalysis. Advanced Energy Materials, 2020, 10, 2001275.	10.2	109
6798	Investigation of electrochemical properties of various transition metals doped SnO2 spherical nanostructures for supercapacitor applications. Journal of Energy Storage, 2020, 31, 101530.	3.9	73
6799	A Molecular Foaming and Activation Strategy to Porous N-Doped Carbon Foams for Supercapacitors and CO2 Capture. Nano-Micro Letters, 2020, 12, 58.	14.4	45
6800	Covalent sulfur embedding in inherent N,P co-doped biological carbon for ultrastable and high rate lithiumâ€“sulfur batteries. Nanoscale, 2020, 12, 8991-8996.	2.8	25
6801	Is Nickel Hydroxide Charging Only Skin-Deep?. ACS Applied Energy Materials, 2020, 3, 2803-2810.	2.5	7
6802	Formation of microns long thin wire networks with a controlled spatial distribution of elements. Catalysis Science and Technology, 2020, 10, 2020-2028.	2.1	4
6803	Self-supported materials for battery technology-A review. Journal of Alloys and Compounds, 2020, 831, 154844.	2.8	10

#	Article	IF	Citations
6804	A Diffusionâ€â€Reaction Competition Mechanism to Tailor Lithium Deposition for Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 7743-7747.	7.2	219
6805	Nanomaterials in Biofuels Research. Clean Energy Production Technologies, 2020, , .	0.3	9
6806	Nanomaterial-Immobilized Biocatalysts for Biofuel Production from Lignocellulose Biomass. Clean Energy Production Technologies, 2020, , 213-250.	0.3	3
6807	Density functional theory study on hydrogen storage capacity of yttrium decorated graphyne nanotube. International Journal of Hydrogen Energy, 2020, 45, 10797-10805.	3.8	22
6808	Flakes-stacked Sn/SnO2/C composite as highly stable anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2020, 831, 154677.	2.8	22
6809	Mobile Small Polarons Qualitatively Explain Conductivity in Lithium Titanium Oxide Battery Electrodes. Journal of Physical Chemistry Letters, 2020, 11, 2535-2540.	2.1	11
6810	Electrodeposition of Thin Silicon Films from the KF-KCl-KI-K2SiF6 Melt. Journal of the Electrochemical Society, 2020, 167, 042506.	1.3	26
6811	Nitrogen-doped porous carbon materials derived from ionic liquids as electrode for supercapacitor. Inorganic Chemistry Communication, 2020, 115, 107856.	1.8	22
6812	Mesoporous carbon confined intermetallic nanoparticles as highly durable electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2020, 8, 15822-15828.	5.2	58
6813	Energy storage performance in polymer dielectrics by introducing 2D SrBi4Ti4O15 nanosheets. Ceramics International, 2020, 46, 15270-15275.	2.3	29
6814	Preparation of Mesoporous/Microporous MnCo₂O₄ and Nanocubic MnCr₂O₄ Using a Single Step Solution Combustion Synthesis for Bifunction Oxygen Electrocatalysis. Journal of the Electrochemical Society, 2020, 167, 054507.	1.3	28
6815	Catalyzing the Intercalation Storage Capacity of Aqueous Zinc-Ion Battery Constructed with Zn(II) Preinserted Organo-Vanadyl Hybrid Cathode. ACS Applied Energy Materials, 2020, 3, 3425-3434.	2.5	27
6816	Ternary heterogeneous Ptâ€“Niâ€“Au nanowires with enhanced activity and stability for PEMFCs. Chemical Communications, 2020, 56, 4276-4279.	2.2	18
6817	Supercapacitor Performance of Nickel-Cobalt Sulfide Nanotubes Decorated Using Ni Co-Layered Double Hydroxide Nanosheets Grown in Situ on Ni Foam. Nanomaterials, 2020, 10, 584.	1.9	20
6818	Flowable sulfur template induced fully interconnected pore structures in graphene artefacts towards high volumetric potassium storage. Nano Energy, 2020, 72, 104729.	8.2	47
6819	Selective Growth of Stacking Fault Free âŸ¨100âŸ© Nanowires on a Polycrystalline Substrate for Energy Conversion Application. ACS Applied Materials & Interfaces, 2020, 12, 17676-17685.	4.0	8
6820	Two-dimensional porous nickel oxalate thin sheets constructed by ultrathin nanosheets as electrode materials for high-performance aqueous supercapacitors. CrystEngComm, 2020, 22, 2953-2963.	1.3	15
6821	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. Nature Nanotechnology, 2020, 15, 390-397.	15.6	420

#	Article	IF	Citations
6822	Pseudocapacitive performance of Mn3O4â€“SnO2 hybrid nanoparticles synthesized via ultrasonication approach. Journal of Applied Electrochemistry, 2020, 50, 609-619.	1.5	13
6823	Rapid in situ growth of Î²-Ni(OH)₂ nanosheet arrays on nickel foam as an integrated electrode for supercapacitors exhibiting high energy density. Dalton Transactions, 2020, 49, 4956-4966.	1.6	41
6824	Green Carbon Nanofiber Networks for Advanced Energy Storage. ACS Applied Energy Materials, 2020, 3, 3530-3540.	2.5	36
6826	A Diffusionâ€â€Reaction Competition Mechanism to Tailor Lithium Deposition for Lithiumâ€Metal Batteries. Angewandte Chemie, 2020, 132, 7817-7821.	1.6	37
6827	Microâ€Mesopores Nitrogenâ€Doped Carbon Combined Polarâ€MoS₂ as Host for Highâ€Performance Liâ€S Batteries. ChemistrySelect, 2020, 5, 3098-3104.	0.7	7
6828	Charging Chinese future: the roadmap of China's policy for new energy automotive industry. International Journal of Hydrogen Energy, 2020, 45, 11409-11423.	3.8	47
6829	Tin-graphene tubes as anodes for lithium-ion batteries with high volumetric and gravimetric energy densities. Nature Communications, 2020, 11, 1374.	5.8	127
6830	Defect Engineering for Fuelâ€Cell Electrocatalysts. Advanced Materials, 2020, 32, e1907879.	11.1	338
6831	Boosting Specific Energy and Power of Carbon-Ionic Liquid Supercapacitors by Engineering Carbon Pore Structures. Frontiers in Chemistry, 2020, 8, 6.	1.8	5
6832	TMDs beyond MoS₂ for Electrochemical Energy Storage. Chemistry - A European Journal, 2020, 26, 6320-6341.	1.7	52
6833	Electrochemical Characterization of Electrodeposited Niâ€“Cu Foams and Their Application as Electrodes for Supercapacitors. Frontiers in Mechanical Engineering, 2020, 6, .	0.8	8
6834	Operando Identification of the Chemical and Structural Origin of Li-Ion Battery Aging at Near-Ambient Temperature. Journal of the American Chemical Society, 2020, 142, 13406-13414.	6.6	24
6835	A polymer-assisted strategy for hierarchical SnS@N-doped carbon microspheres with enhanced lithium storage performance. Ionics, 2020, 26, 4921-4928.	1.2	1
6836	In situcarbon-supported titanium dioxide (ICS-TiO₂) as an electrode material for high performance supercapacitors. Nanoscale Advances, 2020, 2, 2376-2386.	2.2	50
6837	Multiscale factors in designing alkali-ion (Li, Na, and K) transition metal inorganic compounds for next-generation rechargeable batteries. Energy and Environmental Science, 2020, 13, 4406-4449.	15.6	77
6838	Investigation of Factors Affecting Nano-dielectric Strength under High Voltage Stress using Finite Element Method. , 2020, , .		0
6839	Bifunctionality behavior of phase controlled nickel selenides in alkaline water electrolysis application. Electrochimica Acta, 2020, 354, 136742.	2.6	23
6840	Hollow Mn3O4 nanospheres on graphene matrix for oxygen reduction reaction and supercapacitance applications: Experimental and theoretical insight. Journal of Power Sources, 2020, 471, 228465.	4.0	37

#	Article	IF	Citations
6841	Synthesis of mesoporous SnO2/NiO nanocomposite using modified solâ€“gel method and its electrochemical performance as electrode material for supercapacitors. Scientific Reports, 2020, 10, 11032.	1.6	50
6842	Reversible Anionic Redox Activities in Conventional LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathodes. Angewandte Chemie, 2020, 132, 8759-8766.	1.6	15
6843	Chemical bowling-assisted synthesis of Fe₃O₄@starch-derived carbon composites as anode materials with superior cycling stability for lithium-ion batteries. New Journal of Chemistry, 2020, 44, 3004-3011.	1.4	3
6844	Metal-organic frameworks derived In-based nanoparticles encapsulated by carbonaceous matrix for highly efficient energy storage. Applied Surface Science, 2020, 513, 145894.	3.1	8
6845	Reduced graphene oxide-modified NiCo-phosphates on Ni foam enabling high areal capacitances for asymmetric supercapacitors. Journal of Materials Science and Technology, 2021, 90, 255-263.	5.6	20
6846	Quantitative Analyses of the Interfacial Properties of Current Collectors at the Mesoscopic Level in Lithium Ion Batteries by Using Hierarchical Graphene. Nano Letters, 2020, 20, 2175-2182.	4.5	18
6847	Nanostructured Silicon as Potential Anode Material for Li-Ion Batteries. Molecules, 2020, 25, 891.	1.7	15
6848	Bimetal Schottky Heterojunction Boosting Energyâ€Saving Hydrogen Production from Alkaline Water via Urea Electrocatalysis. Advanced Functional Materials, 2020, 30, 2000556.	7.8	216
6849	High Electrochemical Performance of 2.5â€‰V Aqueous Symmetric Supercapacitor Based on Nitrogenâ€Doped Reduced Graphene Oxide. Energy Technology, 2020, 8, 1901339.	1.8	19
6850	Fundamentals and Challenges of Lithium Ion Batteries at Temperatures between â^'40 and 60 Â°C. Advanced Energy Materials, 2020, 10, 1904152.	10.2	200
6851	Recent progress on biomassâ€derived ecomaterials toward advanced rechargeable lithium batteries. EcoMat, 2020, 2, e12019.	6.8	117
6852	A Biomimeticâ€Mineralizationâ€Inspired Hybrid Mesocrystal with Boosted Lithium Storage Properties. ChemistrySelect, 2020, 5, 2240-2246.	0.7	3
6853	Polycarbazole and biomass-derived flexible nitrogen-doped porous carbon materials for gas adsorption and sensing. Journal of Materials Chemistry A, 2020, 8, 6804-6811.	5.2	16
6854	Design of Nb2O5/graphene hybrid aerogel as polymer binder-free electrodes for lithium-ion capacitors. Materials Technology, 2020, 35, 625-634.	1.5	18
6855	Metallurgical Synthesis of Mg2FexSi1â€“x Hydride: Destabilization of Mg2FeH6 Nanostructured in Templated Mg2Si. Inorganic Chemistry, 2020, 59, 2758-2764.	1.9	2
6856	Facile Electrochemical Synthesis of Highly Efficient Copperâ€“Cobalt Oxide Nanostructures for Oxygen Evolution Reactions. Journal of the Electrochemical Society, 2020, 167, 026510.	1.3	14
6857	Insight into the Superior Lithium Storage Properties of Ultrafine CoO Nanoparticles Confined in a 3â€‰D Bimodal Ordered Mesoporous Carbon CMKâ€9 Anode. ChemSusChem, 2020, 13, 2952-2965.	3.6	25
6858	Synthesis and electrochemical performance of Sb2WO6@PPy as novel anode material for lithium ion battery application. Journal of Materials Science: Materials in Electronics, 2020, 31, 4761-4768.	1.1	3

#	Article	IF	Citations
6859	Shape matters: Enhanced osmotic energy harvesting in bullet-shaped nanochannels. Nano Energy, 2020, 71, 104612.	8.2	80
6860	An organic/inorganic electrode-based hydronium-ion battery. Nature Communications, 2020, 11, 959.	5.8	157
6861	The Role of Cation Vacancies in Electrode Materials for Enhanced Electrochemical Energy Storage: Synthesis, Advanced Characterization, and Fundamentals. Advanced Energy Materials, 2020, 10, 1903780.	10.2	138
6862	Hybrids of LiMn2O4 nanoparticles anchored on carbon nanotubes/graphene sheets as long-cycle-life cathode material for rechargeable hybrid aqueous batteries. Journal of Solid State Electrochemistry, 2020, 24, 601-607.	1.2	12
6863	Controllable synthesis of gossamer-like Nb2O5-RGO nanocomposite and its application to supercapacitor. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	7
6864	Synergistic combination of nanostructured sodium metal anode and capacitive cathode for advanced non-aqueous hybrid capacitors. Applied Surface Science, 2020, 513, 145848.	3.1	3
6865	Exploration of electrochemical and lithium transport properties of BaNb3.6O10 as an anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2020, 830, 154306.	2.8	2
6866	Study on the electrochemical behavior of BiVO4/PANI composite as a high performance supercapacitor material with excellent cyclic stability. Journal of Electroanalytical Chemistry, 2020, 861, 113972.	1.9	64
6867	Filled Carbon Nanotubes as Anode Materials for Lithium-Ion Batteries. Molecules, 2020, 25, 1064.	1.7	14
6868	Supercapacitor: an introduction. , 2020, , 1-13.		9
6869	Flexible in-plane micro-supercapacitors: Progresses and challenges in fabrication and applications. Energy Storage Materials, 2020, 28, 160-187.	9.5	113
6870	Nitrogen self-doped carbon sheets anchored hematite nanodots as efficient Li-ion storage anodes through pseudocapacitance mediated redox process. Journal of Industrial and Engineering Chemistry, 2020, 85, 289-296.	2.9	6
6871	Stoneâ€“Wales Defect Induced Performance Improvement of BC₃ Monolayer for High Capacity Lithium-Ion Rechargeable Battery Anode Applications. Journal of Physical Chemistry C, 2020, 124, 5910-5919.	1.5	52
6872	Quaternary transition metal molybdate (Mn 0.25Ni0.25Co0.25Fe0.25MoO4) design to improve the kinetics of the redox reaction in supercapacitors. Ceramics International, 2020, 46, 12422-12429.	2.3	14
6873	Designing All-Polymer Nanostructured Solid Electrolytes: Advances and Prospects. ACS Omega, 2020, 5, 2531-2540.	1.6	40
6874	Ordered SnO₂ nanotube arrays of tuneable geometry as a lithium ion battery material with high longevity. Nanoscale Advances, 2020, 2, 1417-1426.	2.2	7
6875	Nanoelectrode design from microminiaturized honeycomb monolith with ultrathin and stiff nanoscaffold for high-energy micro-supercapacitors. Nature Communications, 2020, 11, 299.	5.8	55
6876	Hydrothermal-assisted Synthesis of Li2FeSiO4/C Composites as Cathode Materials for Lithium-Ion Batteries. International Journal of Electrochemical Science, 2020, 15, 587-598.	0.5	7

#	Article	IF	Citations
6877	Single source precursor route to iron sulfide nanomaterials for energy storage. Chemical Physics Letters, 2020, 739, 136993.	1.2	5
6878	Photocatalytic activities of antimony, iodide, and rare earth metals on SnO2 for the photodegradation of phenol under UV, solar, and visible light irradiations. , 2020, , 129-288.		2
6879	Recent progress in the syntheses and applications of multishelled hollow nanostructures. Materials Chemistry Frontiers, 2020, 4, 1105-1149.	3.2	55
6880	Fabrication of a fibrous MnO2@MXene/CNT electrode for high-performance flexible supercapacitor. Ceramics International, 2020, 46, 11874-11881.	2.3	86
6881	Atomic layer deposition synthesized ZnO nanomembranes: A facile route towards stable supercapacitor electrode for high capacitance. Journal of Power Sources, 2020, 451, 227740.	4.0	56
6882	Solid oxide fuel cell: Materials for anode, cathode and electrolyte. International Journal of Hydrogen Energy, 2020, 45, 23988-24013.	3.8	123
6883	Heterogeneous Single Atom Electrocatalysis, Where â€œSinglesâ€•Are â€œMarriedâ€• Advanced Energy Materials, 2020, 10, 1903181.	10.2	113
6884	A high growth rate process of ALD CeOx with amidinato-cerium [(N-iPr-AMD)3Ce] and O3 as precursors. Journal of Materials Science, 2020, 55, 5378-5389.	1.7	7
6885	Emerging covalent organic frameworks tailored materials for electrocatalysis. Nano Energy, 2020, 70, 104525.	8.2	143
6886	Electron-pinned defect dipoles in (Li, Al) co-doped ZnO ceramics with colossal dielectric permittivity. Journal of Materials Chemistry A, 2020, 8, 4764-4774.	5.2	26
6887	Unadulterated carbon as robust multifunctional electrocatalyst for overall water splitting and oxygen transformation. Nano Research, 2020, 13, 401-411.	5.8	30
6888	Synthesis, structural and microstructural study of new FeNa0.5H1.5MoO5 hybrid material for highly efficient energy storage hybrid systems. Inorganic Chemistry Communication, 2020, 113, 107811.	1.8	1
6889	Are transition-metal borides promising for Na ion batteries? A first-principles study on transition-metal boride monolayer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126282.	0.9	30
6890	Cassava- and bamboo-derived carbons with higher degree of graphitization for energy storage. Nanomaterials and Energy, 2020, 9, 54-65.	0.1	11
6891	Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. Nano-Micro Letters, 2020, 12, 21.	14.4	159
6892	Hollow CuS Nanoboxes as Liâ€Free Cathode for Highâ€Rate and Longâ€Life Lithium Metal Batteries. Advanced Energy Materials, 2020, 10, 1903401.	10.2	56
6893	Development of electrode architecture using Sbâ€“rGO composite and CMC binder for high-performance sodium-ion battery anodes. Springer Series in Emerging Cultural Perspectives in Work, Organizational, and Personnel Studies, 2020, 57, 91-97.	1.5	11
6894	Preparation of pectin-based dual-crosslinked network as a binder for high performance Si/C anode for LIBs. Korean Journal of Chemical Engineering, 2020, 37, 366-373.	1.2	21

#	Article	IF	Citations
6895	Precise and controllable N/C ratio in graphdiyne for superior Li and Na ions storage capacities. 2D Materials, 2020, 7, 025032.	2.0	23
6896	AC/Se composite cathode for asymmetric Li-ion capacitors. Materials Today Energy, 2020, 16, 100374.	2.5	1
6897	An ultrafast supercapacitor built by Co3O4 with tertiary hierarchical architecture. Vacuum, 2020, 174, 109219.	1.6	37
6898	Structure Design and Composition Engineering of Carbonâ€Based Nanomaterials for Lithium Energy Storage. Advanced Energy Materials, 2020, 10, 1903030.	10.2	122
6899	Reversible Anionic Redox Activities in Conventional LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathodes. Angewandte Chemie - International Edition, 2020, 59, 8681-8688.	7.2	91
6900	Increasing lithium extraction performance by adding sulfonated poly (ether ether ketone) into blockâ€copolymer ethylene vinyl alcohol membrane. Journal of Chemical Technology and Biotechnology, 2020, 95, 1559-1568.	1.6	7
6901	Anharmonicity of Lattice Vibrations and the Thermal Properties of Cd1Ââ€“ÂxSrxF2 Solid Solutions. Physics of the Solid State, 2020, 62, 714-721.	0.2	2
6902	Activation-free, porous and superamphiphilic N-doped carbon capsular nanofibrous electrode for high performance electrochemical capacitor. Journal of Power Sources, 2020, 463, 228112.	4.0	10
6903	In-situ synthesis of nanocomposite from metal-organic frameworks template for high-performance rechargeable batteries. Journal of Power Sources, 2020, 464, 228247.	4.0	23
6904	Interface-Controlled Rhombohedral Li3V2(PO4)3 Embedded in Carbon Nanofibers with Ultrafast Kinetics for Li-Ion Batteries. Journal of Physical Chemistry Letters, 2020, 11, 4059-4069.	2.1	11
6905	Advanced Strategies in Thin Films Engineering by Magnetron Sputtering. Coatings, 2020, 10, 419.	1.2	4
6906	Threeâ€dimensional nitrogen rich bubbled porous carbon sponge for supercapacitor & pressure sensing applications. International Journal of Energy Research, 2020, 44, 7242-7253.	2.2	16
6907	Extraordinary activity of mesoporous carbon supported Ru toward the hydrogen oxidation reaction in alkaline media. Journal of Power Sources, 2020, 461, 228147.	4.0	44
6908	Research progress in bio-based self-healing materials. European Polymer Journal, 2020, 129, 109651.	2.6	71
6909	Functional properties of ZnMn2O4/MWCNT/graphene nanocomposite as anode material for Li-ion batteries. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	28
6910	Scalable synthesis of nanoporous silicon microparticles for highly cyclable lithium-ion batteries. Nano Research, 2020, 13, 1558-1563.	5.8	65
6911	Synthesis, properties and application of titania incorporated potassium iodoplumbite nanocomposite solid electrolyte for the manufacture of high value capacitors. Electrochimica Acta, 2020, 342, 136097.	2.6	7
6912	Quasi-solid-state zinc-ion battery based on Î±-MnO2 cathode with husk-like morphology. Electrochimica Acta, 2020, 345, 136189.	2.6	24

#	Article	IF	Citations
6913	Graphene oxide surface chemistry regulated growth of SnO2 nanoparticles for electrochemical application. Journal of Alloys and Compounds, 2020, 834, 154901.	2.8	16
6914	Expeditious and eco-friendly synthesis of spinel LiMn2O4 and its potential for fabrication of supercapacitors. Journal of Alloys and Compounds, 2020, 834, 155060.	2.8	17
6915	3D porous nickel nanosheet arrays as an advanced electrode material for high energy hybrid supercapacitors. Journal of Electroanalytical Chemistry, 2020, 864, 114118.	1.9	5
6916	Mechanism of Thermodynamic Destabilization and Fast Desorption Kinetics in a Mechanically Alloyed MgH₂â€“In Composite. Journal of Physical Chemistry C, 2020, 124, 9685-9695.	1.5	11
6917	Solid-Electrolyte Interphases (SEI) in Nonaqueous Aluminum-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 3673-3683.	2.5	17
6918	Creasing Highly Porous V₂O₅ Scaffolds for High Energy Density Aluminum-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 4033-4042.	2.5	20
6919	3D silk fibroin/carbon nanotube array composite matrix for flexible solid-state supercapacitors. New Journal of Chemistry, 2020, 44, 6575-6582.	1.4	10
6920	Platelet-like CuS impregnated with twin crystal structures for high performance sodium-ion storage. Journal of Materials Chemistry A, 2020, 8, 8049-8057.	5.2	38
6921	Effect of flake size of natural graphite precursor on graphene oxide supercapacitor for energy storage. , 2020, , .		1
6922	LiFePO4 spray drying scale-up and carbon-cage for improved cyclability. Journal of Power Sources, 2020, 462, 228103.	4.0	19
6923	Effect of Long-Chain Ionic Liquids on the Capacitive Performance of Carbon Nanotube-Sulfonated Polyaniline Hydrogels for Energy Storage Applications. Journal of Physical Chemistry C, 2020, 124, 9810-9821.	1.5	32
6924	Approaching energy-dense and cost-effective lithiumâ€“sulfur batteries: From materials chemistry and price considerations. Energy, 2020, 201, 117718.	4.5	43
6925	Energetic Cost for Being â€œRedox-Site-Richâ€•in Pseudocapacitive Energy Storage with Nickelâ€“Aluminum Layered Double Hydroxide Materials. Journal of Physical Chemistry Letters, 2020, 11, 3745-3753.	2.1	11
6926	Recent Advances and Promise of MXeneâ€Based Nanostructures for Highâ€Performance Metal Ion Batteries. Advanced Functional Materials, 2020, 30, 2000706.	7.8	192
6927	Aerogels: promising nanostructured materials for energy conversion and storage applications. Materials for Renewable and Sustainable Energy, 2020, 9, 1.	1.5	82
6928	MOF-reinforced Co9S8 self-supported nanowire arrays for highly durable and flexible supercapacitor. Electrochimica Acta, 2020, 346, 136201.	2.6	41
6929	Nanostructured graphene materials utilization in fuel cells and batteries: A review. Journal of Energy Storage, 2020, 29, 101386.	3.9	50
6930	Barrier properties of sulfonated polysulfone/layered double hydroxides nanocomposite membrane for direct methanol fuel cell operating at high methanol concentrations. International Journal of Hydrogen Energy, 2020, 45, 20647-20658.	3.8	35

#	Article	IF	Citations
6931	Effective Removal of Mercury Ions in Aqueous Solutions: A Review. Current Nanoscience, 2020, 16, 363-375.	0.7	23
6932	Atomic electron tomography in three and four dimensions. MRS Bulletin, 2020, 45, 290-297.	1.7	28
6933	Spray drying-assisted preparation FeSx/C/CNT composite for energy storage and conversion performance. Journal of Alloys and Compounds, 2020, 834, 154916.	2.8	3
6934	Superior and Reversible Lithium Storage of SnO₂/Graphene Composites by Silicon Doping and Carbon Sealing. ACS Applied Materials & Interfaces, 2020, 12, 20824-20837.	4.0	33
6935	Strategies for Rational Design of Highâ€Power Lithiumâ€ion Batteries. Energy and Environmental Materials, 2021, 4, 19-45.	7.3	53
6936	Electrochemical impact of the carbonate in ceria-carbonate composite for low temperature solid oxide fuel cell. International Journal of Hydrogen Energy, 2021, 46, 9898-9904.	3.8	6
6937	Recent advances in electrospun electrode materials for sodium-ion batteries. Journal of Energy Chemistry, 2021, 54, 225-241.	7.1	91
6938	Wellâ€Defined Nanostructures for Electrochemical Energy Conversion and Storage. Advanced Energy Materials, 2021, 11, 2001537.	10.2	102
6939	High-performance SiO/C as anode materials for lithium-ion batteries using commercial SiO and glucose as raw materials. Rare Metals, 2021, 40, 1110-1117.	3.6	30
6940	A Review of Metal Silicides for Lithium-Ion Battery Anode Application. Acta Metallurgica Sinica (English Letters), 2021, 34, 291-308.	1.5	24
6941	Synthesis of nickel-based layered double hydroxide (LDH) and their adsorption on carbon felt fibres: application as low cost cathode catalyst in microbial fuel cell (MFC). Environmental Technology (United Kingdom), 2021, 42, 492-504.	1.2	22
6942	Confinement of PMo₁₂ in hollow SiO₂-PMo₁₂@rGO nanospheres for high-performance lithium storage. Inorganic Chemistry Frontiers, 2021, 8, 352-360.	3.0	18
6943	Ammonia-assisted synthesis of gypsophila-like 1T-WSe2/graphene with enhanced potassium storage for all-solid-state supercapacitor. Chemical Engineering Journal, 2021, 405, 126611.	6.6	20
6944	Self-assembly synthesis of SnNb2O6/amino-functionalized graphene nanocomposite as high-rate anode materials for sodium-ion batteries. Rare Metals, 2021, 40, 425-432.	3.6	26
6945	A new active NaVMoO6 cathode material for rechargeable Li ion batteries. Journal of Materials Science and Technology, 2021, 66, 97-102.	5.6	7
6946	Highly stable aqueous rechargeable Zn-ion battery: The synergistic effect between NaV6O15 and V2O5 in skin-core heterostructured nanowires cathode. Journal of Energy Chemistry, 2021, 55, 25-33.	7.1	44
6947	3D CNTs/graphene network conductive substrate supported MOFs-derived CoZnNiS nanosheet arrays for ultra-high volumetric/gravimetric energy density hybrid supercapacitor. Journal of Colloid and Interface Science, 2021, 583, 288-298.	5.0	96
6948	Hierarchically hollow NiCo2S4/graphitic nanofiber film with ultrahigh-rate capability and long-term cycling durability for asymmetrical supercapacitor. Ionics, 2021, 27, 305-314.	1.2	5

#	Article	IF	Citations
6949	TEMPO oxidized cellulose nanofibers-based heterogenous membrane employed for concentration-gradient-driven energy harvesting. Nano Energy, 2021, 79, 105468.	8.2	64
6950	Cucurbiturilsâ€Mediated Noble Metal Nanoparticles for Applications in Sensing, SERS, Theranostics, and Catalysis. Advanced Functional Materials, 2021, 31, .	7.8	79
6951	Recent advances in MXene-based nanocomposites for electrochemical energy storage applications. Progress in Materials Science, 2021, 117, 100733.	16.0	97
6952	Recent progress of phosphorus composite anodes for sodium/potassium ion batteries. Energy Storage Materials, 2021, 34, 436-460.	9.5	61
6953	Direct Ink Writing of Polymer Composite Electrolytes with Enhanced Thermal Conductivities. Advanced Functional Materials, 2021, 31, 2006683.	7.8	63
6954	Atomic Layer Deposition of Highâ€Capacity Anodes for Nextâ€Generation Lithiumâ€Ion Batteries and Beyond. Energy and Environmental Materials, 2021, 4, 363-391.	7.3	43
6955	Growing ordered CuO nanorods on 2D Cu/g-C3N4 nanosheets as stable freestanding anode for outstanding lithium storage. Chemical Engineering Journal, 2021, 407, 126941.	6.6	33
6956	Sonochemical synthesis of NiCo2O4/NRGO nanocomposite as a cathodic material for the electrochemical capacitor application. Journal of the Iranian Chemical Society, 2021, 18, 993-1003.	1.2	9
6957	Taming polysulfides and facilitating redox: Novel interlayer based on chestnut-like and multi-level structural materials for ultra-stable lithium-sulfur batteries. Journal of Alloys and Compounds, 2021, 851, 156859.	2.8	21
6958	Recent progress on synthetic strategies and applications of transition metal phosphides in energy storage and conversion. Ceramics International, 2021, 47, 4404-4425.	2.3	131
6959	Comparative performance analysis of electrospun <scp>TiO₂</scp> embedded poly(vinylidene fluoride) nanocomposite membrane for supercapacitors. Journal of Applied Polymer Science, 2021, 138, 50323.	1.3	10
6960	Investigating the compressive strength and strain localization of nanotwinned nickel alloys. Acta Materialia, 2021, 204, 116507.	3.8	13
6961	Controllable synthesis and coating-thickness-dependent electrochemical properties of mesoporous carbon-coated Î±-Fe2O3 nanoparticles for lithium-ion batteries. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125907.	2.3	13
6962	Environmentally friendly Zn-air rechargeable battery with heavy metal free charcoal based air cathode. Electrochimica Acta, 2021, 368, 137592.	2.6	6
6963	Synthesis of ternary SnO2â€“MoO3â€“C composite with nanosheet structure as high-capacity, high-rate and long-lifetime anode for lithium-ion batteries. Ceramics International, 2021, 47, 9303-9309.	2.3	12
6964	Synthesis and applications of anisotropic nanoparticles with precisely defined dimensions. Nature Reviews Chemistry, 2021, 5, 21-45.	13.8	154
6965	Induced symmetric 2D Mesoporous Graphitic Carbon Spinel Cobalt Ferrite (CoFe2O4/2D-C) with high porosity fabricated via a facile and swift sucrose templated microwave combustion route for an improved supercapacitive performance. Materials Research Bulletin, 2021, 133, 111053.	2.7	7
6966	Recent development of Snâ€“Fe-based materials as a substitute for Snâ€“Coâ€“C anodes in Li-ion batteries: a review. Materials Chemistry Frontiers, 2021, 5, 1185-1204.	3.2	17

#	Article	IF	Citations
6967	Electrochemical activation to enhance the volumetric performance of carbon nanotube electrodes. Applied Surface Science, 2021, 541, 148448.	3.1	21
6968	Synthesis and electrochemical properties of Fe2WO6. Materials Today: Proceedings, 2021, 38, 2512-2514.	0.9	2
6969	Fabrication and electrochemical properties of boron-doped SiC. Carbon, 2021, 174, 240-247.	5.4	2
6970	Recycling Si waste cut from diamond wire into high performance porous Si@SiO2@C anodes for Li-ion battery. Journal of Hazardous Materials, 2021, 407, 124778.	6.5	22
6971	Ti3C2 wrapped Prussian blue skeleton as an anode for potassium-ion battery. Journal of Power Sources, 2021, 484, 229276.	4.0	19
6972	Integrated transition metal and compounds with carbon nanomaterials for electrochemical water splitting. Journal of Materials Chemistry A, 2021, 9, 3786-3827.	5.2	140
6973	Interface Engineering of Air Electrocatalysts for Rechargeable Zincâ€“Air Batteries. Advanced Energy Materials, 2021, 11, 2002762.	10.2	129
6974	In situ imaging analysis of the inhibition effect of functional coating on the volume expansion of silicon anodes. Chemical Engineering Journal, 2021, 417, 128122.	6.6	20
6975	3D Nanomagnetism in Low Density Interconnected Nanowire Networks. Nano Letters, 2021, 21, 716-722.	4.5	39
6976	A coral-like polyaniline/barium titanate nanocomposite electrode with double electric polarization for electrochromic energy storage applications. Journal of Materials Chemistry A, 2021, 9, 1669-1677.	5.2	38
6977	Electrokinetic behavior of a pH-regulated dielectric cylindrical nanopore. Journal of Colloid and Interface Science, 2021, 588, 94-100.	5.0	8
6978	Pd nanocrystals grown on MXene and reduced graphene oxide co-constructed three-dimensional nanoarchitectures for efficient formic acid oxidation reaction. International Journal of Hydrogen Energy, 2021, 46, 589-598.	3.8	95
6979	Millisecond photothermal carbonization for in-situ fabrication of mesoporous graphitic carbon nanocomposite electrode films. Carbon, 2021, 174, 439-444.	5.4	8
6980	Hydroxide ion dependent Î±-MnO₂ enhanced via oxygen vacancies as the negative electrode for high-performance supercapacitors. Journal of Materials Chemistry A, 2021, 9, 2872-2887.	5.2	41
6981	Imaging of electric failure in Si-alloy/graphite-blended anodes for Li-ion batteries. Journal of Power Sources, 2021, 485, 229311.	4.0	5
6982	Cellulose- and nanocellulose-based dielectric materials. , 2021, , 73-100.		4
6983	High power and stable P-doped yolk-shell structured Si@C anode simultaneously enhancing conductivity and Li+ diffusion kinetics. Nano Research, 2021, 14, 1004-1011.	5.8	55
6984	Lithium/Sulfide Allâ€Solidâ€State Batteries using Sulfide Electrolytes. Advanced Materials, 2021, 33, e2000751.	11.1	356

#	Article	IF	Citations
6985	Multi-electron Reaction Materials for High-Energy-Density Secondary Batteries: Current Status and Prospective. Electrochemical Energy Reviews, 2021, 4, 35-66.	13.1	68
6986	Environmental Remediation Through Carbon Based Nano Composites. Green Energy and Technology, 2021, , .	0.4	10
6987	Extremely pseudocapacitive interface engineered CoO@3D-NRGO hybrid anodes for high energy/ power density and ultralong life lithium-ion batteries. Carbon, 2021, 171, 869-881.	5.4	36
6988	Fibrousâ€Structured Freestanding Electrodes for Oxygen Electrocatalysis. Small, 2021, 17, e1903760.	5.2	28
6989	Solvent-assisted synthesis of dendritic cerium hexacyanocobaltate and derived porous dendritic Co₃O₄/CeO₂ as supercapacitor electrode materials. CrystEngComm, 2021, 23, 1704-1708.	1.3	18
6990	Nanostructured cathode materials in rechargeable batteries. , 2021, , 293-319.		2
6991	Wood-based self-supporting flexible electrode materials for energy storage applications. Journal of Materials Chemistry A, 2021, 9, 6172-6179.	5.2	29
6992	Mass spectrometry for multi-dimensional characterization of natural and synthetic materials at the nanoscale. Chemical Society Reviews, 2021, 50, 5243-5280.	18.7	23
6993	A substrate surface alloy strategy for integrated sulfide electrodes for sodium ion batteries with superior lifespan. Materials Advances, 2021, 2, 5062-5066.	2.6	1
6994	Interfacial modulation achieving a flexible anode of FeP/N-doped C@carbon cloth with a robust structure for high areal capacity lithium storage. Sustainable Energy and Fuels, 2021, 5, 5247-5256.	2.5	4
6995	Plasma-assisted defect engineering of N-doped NiCo₂O₄for efficient oxygen reduction. Physical Chemistry Chemical Physics, 2021, 23, 6591-6599.	1.3	22
6996	Two-electron-active tetracyanoethylene for nonaqueous redox flow batteries. Journal of Materials Chemistry A, 2021, 9, 13867-13873.	5.2	5
6997	3D-Assembled rutile TiO₂spheres withc-channels for efficient lithium-ion storage. Nanoscale, 2021, 13, 11104-11111.	2.8	9
6998	Potential of Graphene for Miniature Sensors and Conducting Devices in Biomedical Applications. , 2022, , 96-108.		0
6999	Unravelling the origin of bifunctional OER/ORR activity for single-atom catalysts supported on C₂N by DFT and machine learning. Journal of Materials Chemistry A, 2021, 9, 16860-16867.	5.2	93
7000	Photoswitchable Molecular Glue for Carbon Nanotubes Reversibly Controls Electronic Mobility with Light. ACS Applied Electronic Materials, 2021, 3, 309-315.	2.0	8
7001	Frequency stable dielectric constant with reduced dielectric loss of one-dimensional ZnOâ€“ZnS heterostructures. Nanoscale, 2021, 13, 15711-15720.	2.8	6
7002	Theoretical and experimental study of the influence of PEG and PEI on copper electrodeposition. New Journal of Chemistry, 2021, 45, 19655-19659.	1.4	3

#	Article	IF	Citations
7003	Hydro thermal synthesis and electrochemical characterization of (V1/2Sb1/2Sn)O4 and (Fe1/2Sb1/2Sn)O4 as energy storage materials. AIP Conference Proceedings, 2021, , .	0.3	2
7004	Interfacial Design on Grapheneâ€“Hematite Heterostructures for Enhancing Adsorption and Diffusion towards Superior Lithium Storage. Nanomaterials, 2021, 11, 81.	1.9	5
7005	Magnetron sputtering enabled sustainable synthesis of nanomaterials for energy electrocatalysis. Green Chemistry, 2021, 23, 2834-2867.	4.6	96
7006	Nanostructured anode materials in rechargeable batteries. , 2021, , 187-219.		5
7007	Application of MXene-based materials in hybrid capacitors. Sustainable Energy and Fuels, 2021, 5, 3278-3291.	2.5	29
7008	Transition metal sulfides for supercapacitors. , 2021, , 407-445.		5
7009	The lithium metal anode in Liâ€“S batteries: challenges and recent progress. Journal of Materials Chemistry A, 2021, 9, 10012-10038.	5.2	45
7010	Research progress in transition metal chalcogenide based anodes for K-ion hybrid capacitor applications: a mini-review. RSC Advances, 2021, 11, 25450-25460.	1.7	37
7011	Dual-ion chargeâ€“discharge behaviors of Naâ€“NiNc and NiNcâ€“NiNc batteries. Materials Advances, 2021, 2, 2263-2266.	2.6	12
7012	Untangling the respective effects of heteroatom-doped carbon materials in batteries, supercapacitors and the ORR to design high performance materials. Energy and Environmental Science, 2021, 14, 2036-2089.	15.6	351
7013	High-Rate and Long-Life Cycle of Nano-LiMn2O4 Under High Cut-Off Potential. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	1.1	3
7014	Basic concepts and processing of nanostructures materials. , 2021, , 1-32.		1
7015	Synthesis and Structureâ€“Property Relationships of Polyimide Covalent Organic Frameworks for Carbon Dioxide Capture and (Aqueous) Sodium-Ion Batteries. Chemistry of Materials, 2021, 33, 818-833.	3.2	76
7016	Growth kinetic control over MgFe₂O₄ to tune Fe occupancy and metalâ€“support interactions for optimum catalytic performance. CrystEngComm, 2021, 23, 2538-2546.	1.3	1
7017	Co₃O₄@NiCo₂O₄ double-shelled nanocages with hierarchical hollow structure and oxygen vacancies as efficient bifunctional electrocatalysts for rechargeable Znâ€“air batteries. Dalton Transactions, 2021, 50, 2093-2101.	1.6	16
7018	Stateâ€Ofâ€Theâ€Art and Future Challenges in High Energy Lithiumâ€“Selenium Batteries. Advanced Materials, 2021, 33, e2003845.	11.1	75
7019	Green and Sustainable Battery Materials. , 2021, , 1-29.		0
7020	Data driven analytics of porous battery microstructures. Energy and Environmental Science, 2021, 14, 2485-2493.	15.6	9

#	Article	IF	Citations
7021	Tactile sensors based on buckle structure. , 2021, , 197-218.		0
7022	Fractal calculus for modeling electrochemical capacitors under dynamical cycling. Thermal Science, 2021, 25, 1317-1320.	0.5	2
7024	Controllable synthesis of multilayered porous carbon by ice templating with graphene addition for supercapacitors. Journal of Materials Science, 2021, 56, 7533-7546.	1.7	9
7025	Progress and Perspective: MXene and MXeneâ€Based Nanomaterials for Highâ€Performance Energy Storage Devices. Advanced Electronic Materials, 2021, 7, 2000967.	2.6	122
7026	Nanomaterials for Energy Harvesting and Storage. Advances in Chemical and Materials Engineering Book Series, 2021, , 188-203.	0.2	3
7027	Zn₃V₃O₈/NC hybrid microspheres self-assembled by layered porous nanosheets as a superior anode material for lithium/sodium-ion batteries. Dalton Transactions, 2021, 50, 4017-4027.	1.6	9
7028	In situ exfoliation and modification of graphite foil in supercapacitor devices: a facile strategy to fabricate high-performance supercapacitors. RSC Advances, 2021, 11, 4006-4010.	1.7	3
7029	AlO6 clustersâ€™ electric storage effect in amorphous alumina supercapacitors. Scientific Reports, 2021, 11, 1699.	1.6	7
7030	How Does the Number of Arms Affect the Properties of Mikto-Arm Stars in a Selective Oligomeric Matrix? Insights from Atomistic Simulations. ACS Omega, 2021, 6, 1138-1148.	1.6	3
7031	Advanced separators based on aramid nanofiber (ANF) membranes for lithium-ion batteries: a review of recent progress. Journal of Materials Chemistry A, 2021, 9, 12923-12946.	5.2	54
7032	Chemical supercapacitors: a review focusing on metallic compounds and conducting polymers. Journal of Materials Chemistry A, 2021, 9, 1970-2017.	5.2	186
7033	Amorphous Si_{1â^'y}C_y composite anode materials: ab initio molecular dynamics for behaviors of Li and Na in the framework. Physical Chemistry Chemical Physics, 2021, 23, 5571-5577.	1.3	0
7034	Reviewâ€”The Lithiation/Delithiation Behavior of Si-Based Electrodes: A Connection between Electrochemistry and Mechanics. Journal of the Electrochemical Society, 2021, 168, 010523.	1.3	21
7035	Background of energy storage. , 2021, , 1-26.		3
7036	Supercapacitor: Evolution and review. Materials Today: Proceedings, 2021, 46, 3984-3988.	0.9	58
7037	Sputtered chromium nitride/carbon nanotubes hybrid structure for electrochemical capacitors. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	3
7038	Supercapacitors based on two-dimensional transition metal dichalcogenides and their hybrids. , 2021, , 159-191.		3
7039	A facile and low-cost Al₂O₃ coating as an artificial solid electrolyte interphase layer on graphite/silicon composites for lithium-ion batteries. Nanotechnology, 2021, 32, 144001.	1.3	15

#	Article	IF	Citations
7040	Surface and Interface Engineering of Nanoarrays toward Advanced Electrodes and Electrochemical Energy Storage Devices. Advanced Materials, 2021, 33, e2004959.	11.1	113
7041	The effect of different surfactants as electrolyte additives on NaTi2(PO4)3/C anode. Ionics, 2021, 27, 1987-1994.	1.2	0
7043	Polyoxometalate-Templated Cobalt-Resorcin[4]arene Frameworks: Tunable Structure and Lithium-Ion Battery Performance. Inorganic Chemistry, 2021, 60, 3729-3740.	1.9	14
7044	Comparison of electrochemical response and electric field emission characteristics of pristine La2NiO4 and La2NiO4/CNT composites: Origin of multi-functionality with theoretical penetration by density functional theory. Electrochimica Acta, 2021, 369, 137676.	2.6	15
7045	Electrochemical Analysis of Architecturally Enhanced LiFe0.5Mn0.5PO4 Multiwalled Carbon Nanotube Composite. Journal of Nanotechnology, 2021, 2021, 1-8.	1.5	1
7046	Hybrid TiO₂/Graphite/Nanodiamond Anode for Realizing High Performance Lithium Ion Battery. ChemistrySelect, 2021, 6, 1458-1465.	0.7	8
7047	Exsolution of Embedded Nanoparticles in Defect Engineered Perovskite Layers. ACS Nano, 2021, 15, 4546-4560.	7.3	18
7048	Precursor modulated active sites of nitrogen doped graphene-based carbon catalysts via one-step pyrolysis method for the enhanced oxygen reduction reaction. Electrochimica Acta, 2021, 370, 137712.	2.6	26
7049	Ultralong Life Symmetric Potassium Ion Batteries Using a Bipolar Cr/Ti Based Layered Material. Chemical Research in Chinese Universities, 2021, 37, 739-744.	1.3	0
7050	In Situ Growth of Ni-Based Metalâ€“Organic Framework Nanosheets on Carbon Nanotube Films for Efficient Oxygen Evolution Reaction. Inorganic Chemistry, 2021, 60, 3439-3446.	1.9	19
7051	Ordered Macroporous Superstructure of Nitrogenâ€Doped Nanoporous Carbon Implanted with Ultrafine Ru Nanoclusters for Efficient pHâ€Universal Hydrogen Evolution Reaction. Advanced Materials, 2021, 33, e2006965.	11.1	213
7052	Tuning MOF-Derived Co₃O₄/NiCo₂O₄ Nanostructures for High-Performance Energy Storage. ACS Applied Energy Materials, 2021, 4, 1537-1547.	2.5	46
7053	Amorphous Si/TiC/Graphite Composite Fabricated by High-Energy Ball-Milling as an Anode for Lithium-Ion Batteries. Journal of Electronic Materials, 2021, 50, 2584-2593.	1.0	5
7054	Electrochemical Analysis of Architecturally Enhanced Life_{0.5}Mn_{0.5}PO₄ Multi-Walled Carbon Nanotube Composite. Journal of Nano Research, 0, 66, 1-11.	0.8	1
7055	Au/TiN nanostructure materials for energy storage applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 5810-5820.	1.1	0
7056	Replacing conventional battery electrolyte additives with dioxolone derivatives for high-energy-density lithium-ion batteries. Nature Communications, 2021, 12, 838.	5.8	122
7057	Mixed Matrix Membranes for Sustainable Electrical Energyâ€Saving Applications. ChemBioEng Reviews, 2021, 8, 27-43.	2.6	12
7058	Micro/Nano Na₃V₂(PO₄)₃/N-Doped Carbon Composites with a Hierarchical Porous Structure for High-Rate Pouch-Type Sodium-Ion Full-Cell Performance. ACS Applied Materials & Interfaces, 2021, 13, 8445-8454.	4.0	51

#	Article	IF	Citations
7059	Fabrication of 3D structured composites of crumpled graphene, polyaniline and molybdenum disulfide nanosheets for high performance alkali metal ion storage. Advanced Powder Technology, 2021, 32, 464-471.	2.0	4
7060	Effect of various aqueous electrolytes on the electrochemical performance of V2O5 spindle-like nanostructures as electrode material for supercapacitor application. Journal of Materials Science: Materials in Electronics, 2021, 32, 6623-6635.	1.1	5
7061	Spectroscopic ellipsometry and morphological studies of nanocrystalline NiO and NiO/ITO thin films deposited by e-beams technique. Optical Materials, 2021, 112, 110763.	1.7	40
7062	In situ Xâ€ray Absorption Spectroscopy of Platinum Electrocatalysts. Chemistry Methods, 2021, 1, 162-172.	1.8	10
7063	Interface Engineering Based on Multinanoscale Heterojunctions between NiO Quantum Dots, N-Doped Amorphous Carbon and Ni for Advanced Supercapacitor. ACS Applied Energy Materials, 2021, 4, 3221-3230.	2.5	24
7064	Synergistic Interaction of Ternary Niâ^'Coâ^'Cu Chalcogenides Confined in Nanosheets Array to Advance Supercapacitors and Solar Steam Generation. Solar Rrl, 2021, 5, 2100021.	3.1	21
7065	Static dielectric permittivity of ionic liquids ultraconfined in carbon nanotubes. Nano Express, 2021, 2, 010036.	1.2	0
7066	One-step Synthesis of Molybdenum Oxide/graphene Composites. VNU Journal of Science Mathematics - Physics, 2021, 37, .	0.0	0
7067	Continuous fast pyrolysis synthesis of TiO₂/C nanohybrid lithiumâ€ion battery anode. Nano Select, 2021, 2, 1770-1778.	1.9	1
7068	A Review of Compact Carbon Design for Supercapacitors with High Volumetric Performance. Small, 2021, 17, e2007548.	5.2	47
7069	Stable Î±-MoO₃ Electrode with a Widened Electrochemical Potential Window for Aqueous Electrochemical Capacitors. ACS Applied Energy Materials, 2021, 4, 3210-3220.	2.5	27
7070	Self-supporting in situ growth Ni3S2/FL-Ti3C2 (MXene)/Ni composite as positive electrode for asymmetrical supercapacitor. Journal of Materials Science: Materials in Electronics, 2021, 32, 9721-9729.	1.1	8
7071	Insights into Na-Ion Storage Behavior of Solid Waste-Derived Carbon via â€œCharge-Averagedâ€• Discharge/Charge Voltages. Energy & Fuels, 2021, 35, 5291-5297.	2.5	3
7072	Regulating the Catalytically Active Sites in Low-Cost and Earth-Abundant 3d Transition-Metal-Based Electrode Materials for High-Performance Zincâ€“Air Batteries. Energy & Fuels, 2021, 35, 6483-6503.	2.5	26
7073	Highly Stable Cycling of Silicon-Nanographite Aerogel-Based Anode for Lithium-Ion Batteries. ACS Omega, 2021, 6, 6600-6606.	1.6	6
7074	Electrodeposition. , 2021, , 59-82.		0
7075	High-performance zeolitic imidazolate frameworks derived three- dimensional Co3S4/polyaniline nanocomposite for supercapacitors. Journal of Energy Storage, 2021, 35, 102303.	3.9	21
7076	Production and applications of flexible/wearable triboelectric nanogenerator (TENGS). Synthetic Metals, 2021, 273, 116692.	2.1	14

#	Article	IF	Citations
7077	Local Substrate Heterogeneity Influences Electrochemical Activity of TEM Grid-Supported Battery Particles. Frontiers in Chemistry, 2021, 9, 651248.	1.8	1
7078	Hierarchical porous carbon materials obtained by Cuâ€“Al double hydroxide templates with high gravimetric and volumetric capacitance. Nanotechnology, 2021, 32, 235303.	1.3	6
7079	Designing of Nanomaterials-Based Enzymatic Biosensors: Synthesis, Properties, and Applications. Electrochem, 2021, 2, 149-184.	1.7	48
7080	A comparative study on the twinning boundaries of five-fold twinned copper and gold nanorods. Applied Surface Science, 2021, 543, 148764.	3.1	6
7081	Recent Advances in Siliconâ€Based Electrodes: From Fundamental Research toward Practical Applications. Advanced Materials, 2021, 33, e2004577.	11.1	168
7082	FeCo₂S₄@Ni@graphene Nanocomposites with Rich Defects Induced by Heterointerface Engineering for High-Performance Supercapacitors. ACS Applied Energy Materials, 2021, 4, 3288-3296.	2.5	25
7083	Recent Progress in Advanced Electrocatalyst Design for Acidic Oxygen Evolution Reaction. Advanced Materials, 2021, 33, e2004243.	11.1	284
7085	The effect of Hf doping on the dielectric and energy storage performance of barium titanate based glass ceramics. Ceramics International, 2021, 47, 11581-11586.	2.3	21
7086	Double Flame-Fabricated High-Performance AlPO₄/LiMn₂O₄ Cathode Material for Li-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 4428-4443.	2.5	16
7087	Improved lithium storage in Fe2O3 nano-particles over nano-rods morphology. Solid State Ionics, 2021, 362, 115586.	1.3	4
7088	Multiscale modeling framework to predict the effective stiffness of a crystalline-matrix nanocomposite. International Journal of Engineering Science, 2021, 161, 103457.	2.7	7
7089	SnO2-ZnO nanoparticles wrapped in graphite nanosheets as a large-capacity, high-rate and long-lifetime anode for lithium-ion batteries. Chemical Physics Letters, 2021, 769, 138392.	1.2	7
7090	Highâ€Performance Ytterbiumâ€Doped V₂O₅â€‰â€…â€‰H₂O Binderâ€Free Thinâ€Film Electrodes for Supercapacitors. ChemElectroChem, 2021, 8, 1993-2004.	1.7	4
7091	Energy Storage Mechanism of Vanadium Nitride via Intercalating Different Atomic Radius for Expanding Interplanar Spacing. Energy and Environmental Materials, 2022, 5, 565-571.	7.3	21
7093	Effect of growth-time on electrochemical performance of birnessite manganese oxide (Î´-MnO2) as electrodes for supercapacitors: An insight into neutral aqueous electrolytes. Journal of Energy Storage, 2021, 36, 102419.	3.9	16
7094	Ultra-fast and efficient calcium co-intercalation host enabled by hierarchically 3D porous carbon nanotemplates. Journal of Industrial and Engineering Chemistry, 2021, 96, 397-403.	2.9	0
7095	MnO/C-graphene composite aerogels with uniform nanoparticles anchored on GNS as high-capacity and long-life anode materials promoted by pseudocapacitance. Applied Surface Science, 2021, 545, 148913.	3.1	5
7096	Microfluidics for flexible electronics. Materials Today, 2021, 44, 105-135.	8.3	65

#	Article	IF	Citations
7097	High Performance Composite Polymer Electrolytes for Lithiumâ€ion Batteries. Advanced Functional Materials, 2021, 31, 2101380.	7.8	151
7098	Self-Supported Sheets-on-Wire CuO@Ni(OH)2/Zn(OH)2 Nanoarrays for High-Performance Flexible Quasi-Solid-State Supercapacitor. Processes, 2021, 9, 680.	1.3	21
7099	Enhancement of Pseudocapacitive Behavior, Cyclic Performance, and Field Emission Characteristics of Reduced Graphene Oxide Reinforced NiGa₂O₄ Nanostructured Electrode: A First Principles Calculation to Correlate with Experimental Observation. Journal of Physical Chemistry C, 2021, 125, 7898-7912.	1.5	15
7100	Novel hierarchical yolk-shell Î±-Ni(OH)2/Mn2O3 microspheres as high specific capacitance electrode materials for supercapacitors. Frontiers of Chemical Science and Engineering, 2021, 15, 1322-1331.	2.3	2
7101	Composite Siâ€“Ni nanoparticles produced by plasma spraying physical vapor deposition for negative electrode in Li-ion batteries. Nanotechnology, 2021, 32, 265703.	1.3	8
7102	Conductive Hydrogelâ€Based Electrodes and Electrolytes for Stretchable and Selfâ€Healable Supercapacitors. Advanced Functional Materials, 2021, 31, 2101303.	7.8	178
7103	Controlled Nanostructuration of Cobalt Oxyhydroxide Electrode Material for Hybrid Supercapacitors. Materials, 2021, 14, 2325.	1.3	7
7104	Effect of vinylene carbonate as electrolyte additive for Mn2O3/NiMnO3 anodes of lithium-ion batteries. Ionics, 2021, 27, 2813-2824.	1.2	2
7105	Metal nano-drills directionally regulate pore structure in carbon. Carbon, 2021, 175, 60-68.	5.4	7
7106	Dimensionality, Function and Performance of Carbon Materials in Energy Storage Devices. Advanced Energy Materials, 2022, 12, 2100775.	10.2	96
7107	Review of lead-free Bi-based dielectric ceramics for energy-storage applications. Journal Physics D: Applied Physics, 2021, 54, 293001.	1.3	38
7108	Facile Fabrication of MnCo2O4/NiO Flower-Like Nanostructure Composites with Improved Energy Storage Capacity for High-Performance Supercapacitors. Nanomaterials, 2021, 11, 1424.	1.9	20
7109	Silver decorated graphene nanocomposites toward electrochemical energy storage. Chemical Physics Letters, 2021, 771, 138534.	1.2	6
7110	Ultrasonication-mediated nitrogen-doped multiwalled carbon nanotubes involving carboxy methylcellulose composite for solid-state supercapacitor applications. Scientific Reports, 2021, 11, 9918.	1.6	24
7111	Anisotropic mesoporous germanium nanostructures by fast bipolar electrochemical etching. Electrochimica Acta, 2021, 378, 137935.	2.6	15
7112	Recent advances in MXene-based nanoarchitectures as electrode materials for future energy generation and conversion applications. Coordination Chemistry Reviews, 2021, 435, 213806.	9.5	97
7113	Electrodeposition of vanadium pentoxide on carbon fiber cloth as a binder-free electrode for high-performance asymmetric supercapacitor. Journal of Alloys and Compounds, 2021, 863, 158332.	2.8	41
7114	Building Zn-Fe bimetal selenides heterostructures caged in nitrogen-doped carbon cubic for lithium and sodium ion batteries. Journal of Alloys and Compounds, 2021, 863, 158329.	2.8	22

#	Article	IF	Citations
7115	Safety challenges and safety measures of Liâ€ion batteries. Energy Science and Engineering, 2021, 9, 1647-1672.	1.9	50
7116	MoS2 for beyond lithium-ion batteries. APL Materials, 2021, 9, .	2.2	22
7117	One-Dimensional (1D) Nanostructured Materials for Energy Applications. Materials, 2021, 14, 2609.	1.3	47
7118	In Situ, Atomicâ€Resolution Observation of Lithiation and Sodiation of WS₂ Nanoflakes: Implications for Lithiumâ€ion and Sodiumâ€ion Batteries. Small, 2021, 17, e2100637.	5.2	22
7119	Crystal Splintering of Î²-MnO₂ Induced by Interstitial Ru Doping Toward Reversible Oxygen Conversion. Chemistry of Materials, 2021, 33, 4135-4145.	3.2	34
7120	SnO2â€“ZrO2 nanoparticles embedded in carbon nanotubes as a large capacity, high rate and long lifetime anode for lithium-ion batteries. Ceramics International, 2021, 47, 14301-14310.	2.3	11
7121	Synthesis and electrochemical performances of ternary nanocomposite SnO2@MoO3@graphene as high-performance anode material for lithium-ion batteries. Chemical Physics Letters, 2021, 770, 138408.	1.2	8
7122	Cu(NO3)2 as efficient electrolyte additive for 4ÂV class Li metal batteries with ultrahigh stability. Energy Storage Materials, 2021, 37, 1-7.	9.5	33
7123	Bioinspired Energy Storage and Harvesting Devices. Advanced Materials Technologies, 2021, 6, 2001301.	3.0	11
7124	Colloidal synthesis of monodisperse ultrathin LiFePO4 nanosheets for Li-ion battery cathodes. Korean Journal of Chemical Engineering, 2021, 38, 1052-1058.	1.2	5
7125	The dehydrogenation kinetics and reversibility improvements of Mg(BH4)2 doped with Ti nano-particles under mild conditions. International Journal of Hydrogen Energy, 2021, 46, 23737-23747.	3.8	20
7126	Cost-efficient nickel-based thermo-electrochemical cells for utilizing low-grade thermal energy. Journal of Power Sources, 2021, 494, 229705.	4.0	23
7127	Nanoscale Strategies to Enhance the Energy Storage Capacity of Polymeric Dielectric Capacitors: Review of Recent Advances. Polymer Reviews, 2022, 62, 211-260.	5.3	50
7128	Cyanogel and its derived-materials: properties, preparation methods, and electrochemical applications. Materials Today Energy, 2021, 20, 100701.	2.5	7
7129	Full-frame and high-contrast smart windows from halide-exchanged perovskites. Nature Communications, 2021, 12, 3360.	5.8	35
7130	Synthesis of silver-integrated silica nanostructures using rice hulls and their electrochemical performance for supercapacitor application. Journal of Materials Science: Materials in Electronics, 2021, 32, 17534-17544.	1.1	7
7131	Direct correlation of oxygen adsorption on platinum-electrolyte interfaces with the activity in the oxygen reduction reaction. Science Advances, 2021, 7, .	4.7	44
7132	Preparations, Properties, and Applications of Polyaniline and Polyaniline Thin Filmsâ€”A Review. Polymers, 2021, 13, 2003.	2.0	215

#	Article	IF	Citations
7133	Advances in Lithiumâ€“Sulfur Batteries: From Academic Research to Commercial Viability. Advanced Materials, 2021, 33, e2003666.	11.1	357
7134	Decorating Flowerâ€Like Ni(OH)₂ Microspheres on Biomassâ€Derived Porous Carbons for Solidâ€State Asymmetric Supercapacitors. ChemistrySelect, 2021, 6, 5218-5224.	0.7	3
7135	Low-Cost Gel Polymer Electrolyte for High-Performance Aluminum-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 28164-28170.	4.0	31
7136	Effect of Graphite Precursor Flake Size on Energy Storage Capabilities of Graphene Oxide Supercapacitors. SAIEE Africa Research Journal, 2021, 112, 67-76.	1.1	3
7137	Improving the electrochemical performances of organo-palladium (II) complex as promising anode material for Li-ion batteries: Effect of double emulsion preparation. Journal of Power Sources, 2021, 496, 229827.	4.0	1
7138	Electrochemical behavior of negative electrode from Co(OH)2 and graphene for lithium batteries. Journal of Materials Science: Materials in Electronics, 2021, 32, 16139-16152.	1.1	5
7139	The structure-stabilized Co3O4@Co9S8 core-shell nanorods synthesized by in-situ sulfuration of Co3O4 for high-performance supercapacitors. Journal of Alloys and Compounds, 2021, 865, 158296.	2.8	31
7140	Yeast-Derived Carbon Nanotube-Coated Separator for High Performance Lithium-Sulfur Batteries. Jom, 2021, 73, 2516-2524.	0.9	17
7141	Balancing particle properties for practical lithium-ion batteries. Particuology, 2022, 61, 18-29.	2.0	35
7142	Facile synthesis of N-doped NiCo2S4/CNTs with coordinated effects as cathode materials for high-performance supercapacitors. Ionics, 2021, 27, 3567-3578.	1.2	8
7143	Facile fabrication 1D/2D/3D Co3O4 nanostructure in hydrothermal synthesis for enhanced supercapacitor performance. Journal of Energy Storage, 2021, 38, 102586.	3.9	22
7144	Scanning electrochemical cell microscopy for the study of (nano)particle electrochemistry: From the subâ€particle to ensemble level. Electrochemical Science Advances, 2022, 2, e2100081.	1.2	22
7145	Ordered mesoporous carbon with tubular framework supported SnO2 nanoparticles intertwined in MoS2 nanosheets as an anode for advanced lithium-ion batteries with outstanding performances. Electrochimica Acta, 2021, 380, 138195.	2.6	10
7146	An integrated highly stable anode enabled by carbon nanotube-reinforced all-carbon binder for enhanced performance in lithium-ion battery. Carbon, 2021, 182, 749-757.	5.4	9
7147	Design of Nb2O5@rGO composites to optimize the lithium-ion storage performance. Journal of Alloys and Compounds, 2021, 865, 158824.	2.8	23
7148	Optical nanomaterials with focus on rare earth doped oxide: A Review. Materials Today Communications, 2021, 27, 102277.	0.9	56
7149	Accurate and Compatible Force Fields for Molecular Oxygen, Nitrogen, and Hydrogen to Simulate Gases, Electrolytes, and Heterogeneous Interfaces. Journal of Chemical Theory and Computation, 2021, 17, 5198-5213.	2.3	36
7150	Metal organic framework reinforced polymer electrolyte with high cation transference number to enable dendrite-free solid state Li metal conversion batteries. Journal of Power Sources, 2021, 501, 229946.	4.0	74

#	Article	IF	Citations
7151	Recent Progresses on Applications of Conducting Polymers for Modifying Electrode of Rechargeable Batteries. Advanced Energy and Sustainability Research, 2021, 2, 2100088.	2.8	19
7152	Magnetic Control of Electrolyte Trapping Polysulfide for Enhanced Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2021, 168, 070510.	1.3	4
7153	Conversionâ€Alloying Anode Materials for Sodium Ion Batteries. Small, 2021, 17, e2101137.	5.2	102
7154	Improving the lithium storage performance of micro-sized SiO particles by uniform carbon interphase encapsulation and suitable SiO2 buffer component. Electrochimica Acta, 2021, 385, 138431.	2.6	6
7155	Nanoparticle synthesis assisted by machine learning. Nature Reviews Materials, 2021, 6, 701-716.	23.3	179
7156	Eco-friendly and intrinsic nanogels for durable flame retardant and antibacterial properties. Chemical Engineering Journal, 2021, 415, 129008.	6.6	26
7157	Synthesis of layered SnOX nanostructure composite carbon hybrid nanofiber mats by blow-spinning for high performance pseodocapacitors. Electrochimica Acta, 2021, 383, 138240.	2.6	4
7158	Excellent electrochemical properties, Li ion dynamics and room temperature work function of Li2MnO3 cathode thin films. Nanotechnology, 2021, 32, 385406.	1.3	2
7159	An atom-economy route for the fabrication of Î±-MnS@C microball with ultrahigh supercapacitance: The significance of in-situ vulcanization. Journal of Colloid and Interface Science, 2021, 594, 186-194.	5.0	8
7160	Investigating the Degradation of Nb₂O₅ Thin Films Across 10,000 Lithiation/Delithiation Cycles. ACS Applied Energy Materials, 2021, 4, 6542-6552.	2.5	11
7161	Improved proton conduction of sulfonated poly (ether ether ketone) membrane by sulfonated covalent organic framework nanosheets. International Journal of Hydrogen Energy, 2021, 46, 26550-26559.	3.8	23
7162	Recent progress for silver nanowires conducting film for flexible electronics. Journal of Nanostructure in Chemistry, 2021, 11, 323-341.	5.3	88
7163	Three-dimensional atomic mapping of ligands on palladium nanoparticles by atom probe tomography. Nature Communications, 2021, 12, 4301.	5.8	16
7164	Stability and Hydrogen Storage Properties of M_x-B₆H₆ Complexes (M = Yâ€“Mo, Ruâ€“Ag, x = 1â€“2). ACS Sustainable Chemistry and Engineering, 2021, 9, 10868-10881.	3.2	3
7165	Development of a Simple Battery Management System for Cell Balancing. IOP Conference Series: Materials Science and Engineering, 2021, 1166, 012026.	0.3	1
7166	Preparation, characterization and the supercapacitive behaviors of electrochemically reduced graphene quantum dots/polypyrrole hybrids. Electrochimica Acta, 2021, 385, 138435.	2.6	18
7167	Electrochemical behavior of Niâ€“Cu foams fabricated by dynamic hydrogen bubble template electrodeposition used for energy applications. Ain Shams Engineering Journal, 2022, 13, 101532.	3.5	7
7168	Modification of LiNi0.8Co0.1Mn0.1O2 cathode materials from the perspective of chemical stabilization and kinetic hindrance. Journal of Power Sources, 2021, 499, 229756.	4.0	19

#	Article	IF	Citations
7169	Carbon Nanotubes: A Summary of Beneficial and Dangerous Aspects of an Increasingly Popular Group of Nanomaterials. Frontiers in Oncology, 2021, 11, 693814.	1.3	23
7170	PVA/GO films with alternating layer structure: thermal, transparency and dielectric properties. Journal of Materials Science: Materials in Electronics, 2021, 32, 18591-18604.	1.1	1
7171	Diffusionlessâ€Like Transformation Unlocks Pseudocapacitance with Bulk Utilization: Reinventing Fe₂O₃ in Alkaline Electrolyte. Energy and Environmental Materials, 2023, 6, .	7.3	20
7172	Recent Advances in the Synthesis and Energy Applications of 2D MXenes. ChemElectroChem, 2021, 8, 3804-3826.	1.7	18
7173	Templated-Assisted Synthesis of Structurally Ordered Intermetallic Pt₃Co with Ultralow Loading Supported on 3D Porous Carbon for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2021, 13, 37133-37141.	4.0	25
7174	Fabrication and electrochemical behavior of halloysite/ graphene-polyaniline three-dimensional hybrid aerogel loaded with iron oxide. Journal of Alloys and Compounds, 2021, 871, 159157.	2.8	9
7175	Charge storage mechanisms of manganese dioxide-based supercapacitors: A review. New Carbon Materials, 2021, 36, 702-710.	2.9	21
7176	Probing into the In-Situ Exsolution Mechanism of Metal Nanoparticles from Doped Ceria Host. Nanomaterials, 2021, 11, 2114.	1.9	3
7177	Non-graphitizable resin coating on polyacrylonitrile-based polyHIPE to prepare high surface area graphitic carbon foam and the investigation of its electrochemical performance as an anode of lithium-ion batteries. Journal of Alloys and Compounds, 2021, 873, 159771.	2.8	2
7178	Boosting the electrochemical performance of nanoporous CuGe anode by regulating the porous structure and solid electrolyte interface layer through Ni-doping. Applied Surface Science, 2021, 558, 149868.	3.1	5
7179	A Prelithiation Separator for Compensating the Initial Capacity Loss of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 38194-38201.	4.0	21
7180	Microwave-assisted preparation of carbon coating layer on raspberry-shaped iron oxide particles for lithium-ion battery anodes. Journal of Electroanalytical Chemistry, 2021, 895, 115520.	1.9	7
7181	Surface microenvironment optimizationâ€•induced robust oxygen reduction for neutral zincâ€air batteries. Natural Sciences, 2021, 1, e20210005.	1.0	6
7182	3D holey-graphene frameworks cross-linked with encapsulated mesoporous amorphous FePO4 nanoparticles for high-power lithium-ion batteries. Chemical Engineering Journal, 2021, 417, 128475.	6.6	19
7183	Controlling MoO2 and MoO3 phases in MoOx/CNTs nanocomposites and their application to anode materials for lithium-ion batteries and capacitors. Electrochimica Acta, 2021, 388, 138635.	2.6	26
7184	Unveiling the Formation Mechanism and Phase Purity Control of Nanostructured Li4Ti5O12 via a Hydrothermal Process. Crystal Growth and Design, 2021, 21, 5440-5450.	1.4	4
7185	Co2P2O7 Microplate/Bacterial Celluloseâ€“Derived Carbon Nanofiber Composites with Enhanced Electrochemical Performance. Nanomaterials, 2021, 11, 2015.	1.9	8
7186	Surface enhanced Co-Mn double hydroxide coronal architectures for hybrid energy storage. Materials Letters, 2021, 296, 129904.	1.3	3

#	Article	IF	Citations
7187	Precisely Designed Mesoscopic Titania for High-Volumetric-Density Pseudocapacitance. Journal of the American Chemical Society, 2021, 143, 14097-14105.	6.6	30
7188	Effect of particle size in Li4Ti5O12 (LTO)-LiMn2O4 (LMO) batteries: a numerical simulation study. Journal of Solid State Electrochemistry, 2021, 25, 2395-2408.	1.2	1
7189	Ni-Co sulfide hollow nanoboxes with enhanced lattice interfaces for high performance hybrid supercapacitors. Electrochimica Acta, 2021, 386, 138445.	2.6	18
7190	3D layered nanostructure of vanadium nitrides quantum Dots@Graphene anode materials via In-Situ redox reaction strategy. Chemical Engineering Journal, 2021, 417, 129267.	6.6	11
7191	Polaron-Assisted Charge Transport in Li-Ion Battery Anode Materials. ACS Applied Energy Materials, 2021, 4, 8583-8591.	2.5	4
7192	Commercializationâ€Driven Electrodes Design for Lithium Batteries: Basic Guidance, Opportunities, and Perspectives. Small, 2021, 17, e2102233.	5.2	38
7193	Stabilizing the nanostructure of Pre-lithiated LiF nanoparticles modified SnO2@graphite nanosheets as a high performance anode material for lithium ions batteries. Ceramics International, 2021, 47, 22776-22785.	2.3	7
7194	Reinforced polypyrrole with 2D graphene flakes decorated with interconnected nickel-tungsten metal oxide complex toward superiorly stable supercapacitor. Chemical Engineering Journal, 2021, 418, 129396.	6.6	48
7195	Effects of yttrium addition on thermoplastic formability of Zr-Cu-Ni-Al amorphous alloy under non-isothermal condition. Journal of Alloys and Compounds, 2021, 872, 159684.	2.8	7
7196	Scalable Synthesis of Ga₂O₃/Nâ€Doped C Nanopapers as Highâ€Rate Performance Anode for Liâ€Ion Batteries. ChemElectroChem, 2021, 8, 3304-3310.	1.7	14
7197	Aerogels Utilization in Electrochemical Capacitors. , 0, , .		0
7198	Self-catalyzed growth of Zn/Co-N-C carbon nanotubes derived from metal-organic frameworks as efficient oxygen reduction catalysts for Zn-air battery. Science China Materials, 2022, 65, 653-662.	3.5	42
7199	Construction of NiCo₂O₄/O-g-C₃N₄ Nanocomposites: A Battery-Type Electrode Material for High-Performance Supercapacitor Application. ACS Applied Nano Materials, 2021, 4, 10173-10184.	2.4	22
7200	Size Effects in Sodium Ion Batteries. Advanced Functional Materials, 2021, 31, 2106047.	7.8	51
7201	Superior Sodium Storage Properties in the Anode Material NiCr₂S₄ for Sodiumâ€Ion Batteries: An Xâ€ray Diffraction, Pair Distribution Function, and Xâ€ray Absorption Study Reveals a Conversion Mechanism via Nickel Extrusion. Advanced Materials, 2021, 33, e2101576.	11.1	25
7202	Enhancing Ni Exsolution by Nonmetal B-Site Substituents (Si and P) in SrTiO₃-Based Solid Oxide Fuel Cell Anodes. Energy & Fuels, 2021, 35, 15084-15093.	2.5	6
7203	Construction of copper porphyrin-linked conjugated microporous polymer/carbon nanotube composite as flexible electrodes for supercapacitors. Journal of Materials Science: Materials in Electronics, 2021, 32, 24953-24963.	1.1	12
7204	Grain-growth mediated hydrogen sorption kinetics and compensation effect in single Pd nanoparticles. Nature Communications, 2021, 12, 5427.	5.8	6

#	Article	IF	Citations
7205	PdZn alloys decorated 3D hierarchical porous carbon networks for highly efficient and stable hydrogen production from aldehyde solution. International Journal of Hydrogen Energy, 2021, 46, 33429-33437.	3.8	6
7206	Polyacrylonitrile Derived Porous Carbon for Zincâ€Ion Hybrid Capacitors with High Energy Density. ChemElectroChem, 2021, 8, 3572-3578.	1.7	9
7207	A review on two-dimensional (2D) and 2D-3D multidimensional perovskite solar cells: Perovskites structures, stability, and photovoltaic performances. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 48, 100405.	5.6	77
7208	Mixed mathematical and experimental modeling of electrospun metal oxide supercapacitor electrodes. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, 052401.	0.6	1
7209	EMIMBF4 in ternary liquid mixtures of water, dimethyl sulfoxide and acetonitrile as â€œtri-solvent-in-saltâ€•electrolytes for high-performance supercapacitors operating at -70ÂÂ°C. Energy Storage Materials, 2021, 40, 368-385.	9.5	25
7210	Effect of acetonitrile on the interface structure of Au (1 0 0)/1-butyl-3-methyl tetrafluoroborate ionic liquid determined by a molecular dynamics simulation. Chemical Physics Letters, 2021, 779, 138882.	1.2	0
7211	Chemically synthesized copper sulfide nanoflakes on reduced graphene oxide for asymmetric supercapacitors. Journal of Industrial and Engineering Chemistry, 2021, 101, 423-429.	2.9	15
7212	Carbon-coated Na2Li2Ti6O14 sub-micro-wires as high-rate and ultra-long cycling anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2021, 876, 160060.	2.8	4
7213	One-Step Hydrothermal Synthesis of a CoTe@rGO Electrode Material for Supercapacitors. Transactions of Tianjin University, 2022, 28, 112-122.	3.3	6
7214	Mesoporous WC x Films with NiOâ€Protected Surface: Highly Active Electrocatalysts for the Alkaline Oxygen Evolution Reaction. ChemSusChem, 2021, 14, 4708-4717.	3.6	3
7215	Understanding the Impact of Microstructure on Charge Transport in Polycrystalline Materials Through Impedance Modelling. Journal of the Electrochemical Society, 2021, 168, 090516.	1.3	13
7216	Cation mixing in Wadsley-Roth phase anode of lithium-ion battery improves cycling stability and fast Li+ storage. Applied Physics Reviews, 2021, 8, .	5.5	21
7217	Effects of Precursors and Carbon Nanotubes on Electrochemical Properties of Electrospun Nickel Oxide Nanofibers-Based Supercapacitors. Molecules, 2021, 26, 5656.	1.7	9
7218	New insights into the performance of an acid-base electrochemical flow battery. Journal of Power Sources, 2021, 506, 230233.	4.0	7
7219	Supercapacitor devices based as SILAR synthesized ytterbium sulfide @ graphene oxide nanocomposite flexible thin film electrodes. Journal of Electroanalytical Chemistry, 2021, 897, 115589.	1.9	15
7220	Power generation by contact and the potential applications in new energy. Nano Energy, 2021, 87, 106167.	8.2	8
7221	Monolayer SnC as anode material for Na ion batteries. Computational Materials Science, 2021, 197, 110617.	1.4	11
7222	Polyaniline-Encapsulated Hollow Coâ€“Fe Prussian Blue Analogue Nanocubes Modified on a Polypropylene Separator To Improve the Performance of Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2021, 13, 47593-47602.	4.0	23

#	Article	IF	Citations
7223	Interfacial engineering enables Bi2S3@N-doped carbon nanospheres towards high performance anode for lithium-ion batteries. Electrochimica Acta, 2021, 398, 139340.	2.6	13
7224	Strategies of binder design for high-performance lithium-ion batteries: a mini review. Rare Metals, 2022, 41, 745-761.	3.6	26
7225	Density functional study on formic acid decomposition on Pd(111) surface: a revisit and comparison with other density functional methods. Journal of Molecular Modeling, 2021, 27, 285.	0.8	0
7226	In Situ Characterization for Boosting Electrocatalytic Carbon Dioxide Reduction. Small Methods, 2021, 5, e2100700.	4.6	51
7227	Design principles of high-voltage aqueous supercapacitors. Materials Today Energy, 2021, 21, 100739.	2.5	17
7228	Synthesis of nano graphene for saving energy in water desalination. Cleaner Engineering and Technology, 2021, 4, 100162.	2.1	3
7229	Nanoflakes-like nickel cobaltite as active electrode material for 4-nitrophenol reduction and supercapacitor applications. Journal of Hazardous Materials, 2021, 419, 126453.	6.5	62
7230	Hydrothermal synthesis, characterization and electrochemical behavior of NiMoO4 nanoflower and NiMoO4/rGO nanocomposite for high-performance supercapacitors. Electrochimica Acta, 2021, 392, 138973.	2.6	29
7231	Coaxial single-walled CNT@SnO2@N-doped carbon with high rate capability and cycling stability for lithium ion batteries. Solid State Ionics, 2021, 369, 115723.	1.3	3
7232	Two-dimensional porous zinc cobalt sulfide nanosheet arrays with superior electrochemical performance for supercapatteries. Journal of Materials Science and Technology, 2021, 89, 199-208.	5.6	47
7233	A special core-shell ZnS-CNTs/S@NH cathode constructed to elevate electrochemical performances of lithium-sulfur batteries. Journal of Colloid and Interface Science, 2021, 599, 416-426.	5.0	13
7234	Physical and chemical mechanisms that influence the electrical conductivity of lignin-derived biochar. Carbon Trends, 2021, 5, 100088.	1.4	35
7235	Clarification of particle size dependence on the rate capabilities of Li[Ni1/2Mn3/2]O4 materials and electrodes by the dilute electrode method. Journal of Power Sources, 2021, 509, 230349.	4.0	7
7236	Assessment of boroxine covalent organic framework as Li-ion battery anodes. Journal of Molecular Liquids, 2021, 339, 116822.	2.3	8
7237	Pd-based intermetallic nanocrystals: From precise synthesis to electrocatalytic applications in fuel cells. Coordination Chemistry Reviews, 2021, 445, 214085.	9.5	53
7238	Construction of sugarcane bagasse-derived porous and flexible carbon nanofibers by electrospinning for supercapacitors. Industrial Crops and Products, 2021, 170, 113700.	2.5	33
7239	SnO2-MoO3 nanoparticles anchored in carbon nanotubes as a large-capacity, high-rate, and long-lifetime anode for lithium-ion batteries. Ceramics International, 2021, 47, 27022-27031.	2.3	14
7240	Ni-Co-Fe layered double hydroxide coated on Ti3C2 MXene for high-performance asymmetric supercapacitor. Applied Surface Science, 2021, 562, 150116.	3.1	74

#	Article	IF	Citations
7241	Controllable synthesis of nanosheet-induced 3D hierarchical Zn2(OH)3VO3 with gradually enhanced electrochemical performance. Electrochimica Acta, 2021, 394, 139109.	2.6	1
7242	2-amino-6-methylpyridine based salt converted to carbon electrode material for supercapacitive application. Journal of Molecular Structure, 2021, 1244, 130895.	1.8	0
7243	Heterogeneous iron oxide nanoparticles anchored on carbon nanotubes for high-performance lithium-ion storage and fenton-like oxidation. Journal of Colloid and Interface Science, 2021, 601, 283-293.	5.0	19
7244	Theoretical insights on the exsolved behavior of ruthenium atom in titanate perovskite. Applied Surface Science, 2021, 566, 150641.	3.1	5
7245	Recent progress on transition metal oxides as advanced materials for energy conversion and storage. Energy Storage Materials, 2021, 42, 317-369.	9.5	113
7246	A review of the publication and patent landscape of anode materials for lithium ion batteries. Journal of Energy Storage, 2021, 43, 103231.	3.9	10
7247	Solid-state phase transformation of NiO into metallic Ni via ammonia reduction reaction for hybrid supercapacitors. Synthetic Metals, 2021, 281, 116899.	2.1	4
7248	Silicon nanowire-hydrogenated TiO2 core-shell arrays for stable electrochemical micro-capacitors. Electrochimica Acta, 2021, 396, 139198.	2.6	6
7249	Three-dimensional hierarchical porous carbon derived from resorcinol formaldehyde-zinc tatrate/poly(styrene-maleic anhydride) for high performance supercapacitor electrode. Journal of Alloys and Compounds, 2021, 886, 161176.	2.8	39
7250	Activity and stability of CoMxOy/Co3O4 (Mâ€¯=â€¯Mo, W, V) nano-arrays synthesized by self-templated method for water oxidization. Chemical Engineering Journal, 2021, 426, 130063.	6.6	5
7251	Role of magnetism present in the cobaltites (ACo2O4 AÂ=ÂCo, Mn, and Fe) on the charge storage mechanism in aqueous supercapacitor. Applied Surface Science, 2021, 568, 150966.	3.1	14
7252	Fe-F Co-doped NaTi2(PO4)3/C anode material for high performance and long-life aqueous Li-ion battery. Journal of Alloys and Compounds, 2021, 885, 161007.	2.8	3
7253	Lithiation of the crystalline silicon as analyzed using soft X-ray emission spectroscopy and windowless energy dispersive X-ray spectroscopy. Applied Surface Science, 2021, 569, 151040.	3.1	2
7254	Graphite nano-modified SnO2-Ti2C MXene as anode material for high-performance lithium-ion batteries. Journal of Alloys and Compounds, 2021, 886, 161139.	2.8	11
7255	Effect of insertion of an elastic buffer layer on stability of patterned amorphous silicon thin film Li-ion anode. , 2022, , 157-179.		0
7256	Vanadium telluride nanoparticles on MWCNTs prepared by successive ionic layer adsorption and reaction for solid-state supercapacitor. Chemical Engineering Journal, 2022, 429, 132505.	6.6	62
7257	The use of polymer-graphene composites in fuel cell and solar energy. , 2022, , 425-505.		1
7258	Fabrication and performance evaluation of cerium sesquisulfide/graphene oxide composite for electrochemical application with high power density and energy density. Physica B: Condensed Matter, 2022, 624, 413359.	1.3	6

#	Article	IF	Citations
7259	3D N-doped mesoporous carbon/SnO2 with polypyrrole coating layer as high-performance anode material for Li-ion batteries. Journal of Alloys and Compounds, 2022, 892, 162083.	2.8	20
7260	Biomass-derived bifunctional electrocatalysts for oxygen reduction and evolution reaction: A review. Journal of Energy Chemistry, 2022, 65, 149-172.	7.1	66
7261	Advanced materials for next-generation fuel cells. , 2021, , 213-266.		0
7262	In situ recycling of particulate matter for a high-performance supercapacitor and oxygen evolution reaction. Materials Chemistry Frontiers, 2021, 5, 2742-2748.	3.2	1
7263	Describing nanoclusters as the way forward for hydrogen economy using Pd nanoclusters as a base. , 2021, , 121-142.		1
7264	Nanomaterials and nanotechnology for high-performance rechargeable battery. , 2021, , 343-363.		4
7265	On the diatomite-based nanostructure-preserving material synthesis for energy applications. RSC Advances, 2021, 11, 31884-31922.	1.7	17
7266	In Situ Developed Si@Polymethyl Methacrylate Capsule as a Li-Ion Battery Anode with High-Rate and Long Cycle-Life. ACS Applied Materials & Interfaces, 2021, 13, 6919-6929.	4.0	38
7267	In situ fabrication of a Niâ€“Feâ€“S hollow hierarchical sphere: an efficient (pre)catalyst for OER and HER. New Journal of Chemistry, 2021, 45, 12996-13003.	1.4	18
7268	Tunable built-in electric fields enable high-performance one-dimensional co-axial MoO_x/MoON heterojunction nanotube arrays for thin-film pseudocapacitive charge storage devices. Journal of Materials Chemistry A, 2021, 9, 13263-13270.	5.2	6
7269	Nitrogen/phosphorus co-doped porous carbon materials for supercapacitor electrodes. New Journal of Chemistry, 2021, 45, 7239-7246.	1.4	9
7270	Preparation and study of characteristics of LiCoO₂/Fe₃O₄/Li₂B₂O₄ nanocomposites as ideal active materials for electrochemical hydrogen storage. RSC Advances, 2021, 11, 23430-23436.	1.7	8
7271	Analysis of the Influence of Different Mechanical Delaminating Process on the Electrochemical Performance of MXene Films. Mechanisms and Machine Science, 2021, , 411-419.	0.3	0
7273	A Tunable Amorphous Heteronuclear Iron and Cobalt Imidazolate Framework Analogue for Efficient Oxygen Evolution Reactions. European Journal of Inorganic Chemistry, 2021, 2021, 702-707.	1.0	7
7274	A long-term stable aqueous aluminum battery electrode based on one-dimensional molybdenumâ€“tantalum oxide nanotube arrays. Nanoscale, 2021, 13, 6087-6095.	2.8	20
7275	Fe2TiO5 nanochains as anode for high-performance lithium-ion capacitor. Rare Metals, 2021, 40, 2424-2431.	3.6	41
7276	Unveiling the Interface Structure of the Exsolved Coâ€“Fe Alloy Nanoparticles from Double Perovskite and Its Application in Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 3287-3294.	4.0	8
7277	A Naphthalene Diimide Covalent Organic Framework: Comparison of Cathode Performance in Lithium-Ion Batteries with Amorphous Cross-linked and Linear Analogues, and Its Use in Aqueous Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 350-356.	2.5	20

#	Article	IF	Citations
7278	Review on Li Deposition in Working Batteries: From Nucleation to Early Growth. Advanced Materials, 2021, 33, e2004128.	11.1	205
7279	Mask-painting symmetrical micro-supercapacitors based on scalable, pore size adjustable, N-doped hierarchical porous carbon. Journal of Materials Chemistry A, 2021, 9, 14052-14063.	5.2	19
7280	Covalent organic frameworks (COFs) for electrochemical applications. Chemical Society Reviews, 2021, 50, 6871-6913.	18.7	461
7281	MXene derivatives: synthesis and applications in energy convention and storage. RSC Advances, 2021, 11, 16065-16082.	1.7	25
7282	NiCo-layered double hydroxides: Design and electrochemical studies. Materials Today: Proceedings, 2021, 47, 1807-1810.	0.9	1
7285	Replacement of Ca by Ni in a Perovskite Titanate to Yield a Novel Perovskite Exsolution Architecture for Oxygenâ€Evolution Reactions. Advanced Energy Materials, 2020, 10, 1903693.	10.2	53
7286	Highly Strong and Tough Doubleâ€Crosslinked Hydrogel Electrolyte for Flexible Supercapacitors. ChemElectroChem, 2020, 7, 1007-1015.	1.7	25
7287	Vanadium Oxide Aerogels: Enhanced Energy Storage in Nanostructured Materials. Nanostructure Science and Technology, 2009, , 185-199.	0.1	1
7288	Carbon Nanostructures as a New High-Performance Platform for MR Molecular Imaging. Advances in Experimental Medicine and Biology, 2007, 620, 74-84.	0.8	17
7289	Advanced Energy Devices: Lithium Ion Battery and High Energy Capacitor. , 2013, , 1149-1173.		2
7290	Electrochemical Supercapacitors: History, Types, Designing Processes, Operation Mechanisms, and Advantages and Disadvantages. SpringerBriefs in Materials, 2020, , 11-36.	0.1	6
7291	Lithium Fluoride Additives for Stable Cycling of Lithium Batteries at High Current Densities. Springer Theses, 2019, , 81-94.	0.0	4
7292	Perspective of Nanomaterials in the Performance of Solar Cells. , 2020, , 25-54.		4
7293	Deviatoric Strength of Nanoporous Materials: A Limit Analysis Approach. Springer Series in Solid and Structural Mechanics, 2017, , 153-166.	0.2	1
7294	Nanomaterials in Civil Engineering. , 2013, , 1039-1062.		2
7295	Understanding the Energy Storage Principles of Nanomaterials in Lithium-Ion Battery. , 2019, , 61-104.		2
7296	Nanostructures for Energy. , 2016, , 2813-2827.		2
7297	Growing ordered arrays of vertically aligned copolymer nanowires for supercapacitors with high stability. Journal of Solid State Electrochemistry, 2017, 21, 3121-3127.	1.2	1

#	Article	IF	Citations
7298	Facile preparation and properties of cubic TiN@CN nanocapsules as electrode materials for supercapacitors and as microwave absorbers. Journal of Materials Science: Materials in Electronics, 2020, 31, 10574-10584.	1.1	7
7299	A facile strategy of in-situ anchoring of Co3O4 on N doped carbon cloth for an ultrahigh electrochemical performance. Nano Research, 2021, 14, 2410.	5.8	22
7300	Three-dimensional antimony sulfide anode with carbon nanotube interphase modified for lithium-ion batteries. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1629-1635.	2.4	18
7301	Self-evaporating from inside to outside to construct cobalt oxide nanoparticles-embedded nitrogen-doped porous carbon nanofibers for high-performance lithium ion batteries. Chemical Engineering Journal, 2018, 334, 1642-1649.	6.6	58
7302	Laminated structure-induced high dielectric strength and energy storage density in dielectric composites. Composites Science and Technology, 2019, 173, 61-65.	3.8	7
7303	Chemical bath synthesis of NiCo2O4 nanoflowers with nanorods like thin film for flexible supercapacitor application-effect of urea concentration on structural conversion. Electrochimica Acta, 2020, 350, 136413.	2.6	32
7304	Pseudocapacitive contributions to enhanced electrochemical energy storage in hybrid perovskite-nickel oxide nanoparticles composites electrodes. Electrochimica Acta, 2020, 361, 137082.	2.6	27
7305	Solvothermal synthesis of surfactant free spherical nickel hydroxide/graphene oxide composite for supercapacitor application. Journal of Alloys and Compounds, 2017, 721, 80-91.	2.8	42
7306	Graphene induced growth of Sb2WO6 nanosheets for high-performance pseudocapacitive lithium-ion storage. Journal of Alloys and Compounds, 2020, 839, 155614.	2.8	23
7307	Hollow I-Cu2MoS4 nanocubes coupled with an ether-based electrolyte for highly reversible lithium storage. Journal of Colloid and Interface Science, 2020, 577, 86-91.	5.0	17
7308	Monodispersed FeCO 3 nanorods anchored on reduced graphene oxide as mesoporous composite anode for high-performance lithium-ion batteries. Journal of Power Sources, 2017, 364, 359-366.	4.0	31
7309	Secondary-structured LiFePO4 cathode with high tap density and reversible capacity. Materials Letters, 2020, 274, 128006.	1.3	5
7310	A brand-new bimetallic copper-lithium HEDP complex of fast ion migration as a promising anode for lithium ion batteries. Journal of Molecular Structure, 2020, 1214, 128223.	1.8	18
7311	Soft-Matter Nanotubes: A Platform for Diverse Functions and Applications. Chemical Reviews, 2020, 120, 2347-2407.	23.0	147
7312	Fabrication and Growth Control of Metal Nanostructures through Exploration of Atomic Force Microscopy-Based Patterning and Electroless Deposition Conditions. Journal of Physical Chemistry C, 2020, 124, 25588-25601.	1.5	9
7313	Stark-Field Effect in Nanocrystalline Anatase TiO₂ Ruling Miscibility Gap and Electrochemical Performances of Carbon-Free Electrodes for Batteries. ACS Applied Energy Materials, 2020, 3, 8706-8715.	2.5	2
7314	Silicon Few-Layer Graphene Nanocomposite as High-Capacity and High-Rate Anode in Lithium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 1793-1802.	2.5	26
7315	New Anode Material for Lithium-Ion Batteries: Aluminum Niobate (AlNb₁₁O₂₉). ACS Applied Materials & Interfaces, 2019, 11, 6089-6096.	4.0	93

#	Article	IF	Citations
7316	Dynamic Structure Evolution of Composition Segregated Iridium-Nickel Rhombic Dodecahedra toward Efficient Oxygen Evolution Electrocatalysis. ACS Nano, 2018, 12, 7371-7379.	7.3	75
7317	Chapter 4. Ionic Liquid Electrolytes for Graphene-based Supercapacitors with an Ultrahigh Energy Density. RSC Smart Materials, 2019, , 95-128.	0.1	2
7318	Biomass chitin-derived honeycomb-like nitrogen-doped carbon/graphene nanosheet networks for applications in efficient oxygen reduction and robust lithium storage. Journal of Materials Chemistry A, 2016, 4, 11789-11799.	5.2	71
7319	Graphite-like polyoxometalate-based metalâ€“organic framework as an efficient anode for lithium ion batteries. CrystEngComm, 2020, 22, 1340-1345.	1.3	22
7320	Microscopic dynamics in room-temperature ionic liquids confined in materials for supercapacitor applications. Sustainable Energy and Fuels, 2020, 4, 1554-1576.	2.5	21
7321	Plasma modified BiOCl/sulfonated graphene microspheres as efficient photo-compensated electrocatalysts for the oxygen evolution reaction. Catalysis Science and Technology, 2020, 10, 4786-4793.	2.1	12
7322	Hierarchically self-assembled NiCo₂O₄ nanopins as a high-performance supercapacitor cathodic material: a morphology controlled study. RSC Advances, 2020, 10, 35235-35244.	1.7	23
7323	Ultrafast-charging and long cycle-life anode materials of TiO₂-bronze/nitrogen-doped graphene nanocomposites for high-performance lithium-ion batteries. RSC Advances, 2020, 10, 43811-43824.	1.7	23
7324	Self-assembled block polymer aggregates in selective solution: controllable morphology transitions and their applications in drug delivery. Expert Opinion on Drug Delivery, 2020, 17, 947-961.	2.4	16
7325	Fabrication of Co₃O₄hierarchically superhydrophobic boat-like hollow cages at the silicon surface. Nanotechnology, 2008, 19, 445608.	1.3	17
7326	Atomic-scale study of nanocatalysts by aberration-corrected electron microscopy. Journal of Physics Condensed Matter, 2020, 32, 413004.	0.7	2
7327	High performance Li-ion capacitor fabricated with dual graphene-based materials. Nanotechnology, 2021, 32, 015403.	1.3	32
7328	In situ and operando characterisation techniques for solid oxide electrochemical cells: recent advances. JPhys Energy, 2021, 3, 012001.	2.3	10
7329	Operando surface science methodology reveals surface effect in charge storage electrodes. National Science Review, 2021, 8, nwaa289.	4.6	13
7330	Cluster-mining: an approach for determining core structures of metallic nanoparticles from atomic pair distribution function data. Acta Crystallographica Section A: Foundations and Advances, 2020, 76, 24-31.	0.0	34
7331	Multi-Layer Graphene/SnO2 Nanocomposites as Negative Electrode Materials for Lithium-Ion Batteries. Journal of Electrochemical Energy Conversion and Storage, 2020, 17, .	1.1	2
7332	Carbon nanotube-doped electric hydrogels via ultrafast laser processing and loading conductive polymer. , 2019, , .		1
7333	Simultaneous Electrochemical Exfoliation and Chemical Functionalization of Graphene for Supercapacitor Electrodes. Journal of the Electrochemical Society, 2020, 167, 110531.	1.3	11

#	Article	IF	Citations
7334	Communicationâ€"Redox Behavior of Cu2S in Li2S-Dissolving Aprotic Electrolyte for Sulfide-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 122504.	1.3	2
7336	Future Scope and DirectionsÂof Nanotechnology in Creating Next-Generation Supercapacitors. , 2014, , 153-190.		1
7337	Shape- and size-controlled synthesis of noble metal nanoparticles. Advances in Materials Research (South Korea), 2014, 3, 199-216.	0.6	7
7338	Fabrication of flexible transparent Ag square-shaped mesh electrode by top-flat nanosecond laser ablation. Optics Letters, 2020, 45, 901.	1.7	4
7339	Synthesis Control for Carbon Nanowalls on Copper Supports pro Development of Green Energy Applications. E-Journal of Surface Science and Nanotechnology, 2012, 10, 305-309.	0.1	3
7340	Electrospun Metal Oxide/Carbon Nanofiber Composite Electrode for Supercapacitor Application. Applied Chemistry for Engineering, 2015, 26, 239-246.	0.2	3
7341	Effect of Uniaxial Deformation on Structure and Transport in Hydrated Nafion 117: Molecular Dynamics Simulation Study. Materials Performance and Characterization, 2015, 4, 131-147.	0.2	7
7342	Surface analyses of amorphous aluminum oxides with AlO6 clusters. MRS Communications, 2020, 10, 674-679.	0.8	3
7343	SYNTHESIS AND ELECTROCHEMICAL PROPERTIES OF POROUS CNTs-FERRITE HYBRID NANOSTRUCTURES FOR SUPERCAPACITOR. Science and Technology, 2019, 57, 58.	0.1	6
7344	Perspective of electrospun nanofibers in energy and environment. Biofuel Research Journal, 0, , 44-54.	7.2	39
7345	Analysis on Extraction Behaviour of Lithium-ion Battery Electrolyte Solvents in Supercritical CO by Gas Chromatography. International Journal of Electrochemical Science, 2016, 11, 7594-7604.	0.5	31
7346	NiO/ZnO Nanocomposite as Electrode Material for Supercapacitors. International Journal of Electrochemical Science, 2018, 13, 3601-3612.	0.5	40
7347	In Situ Synthesis of Nanosized NiO Encapsulated in Graphene as High-performance Supercapacitor Cathode. International Journal of Electrochemical Science, 0, , 8615-8622.	0.5	2
7348	Electrochemical Deposition of Polypyrrole Nanostructures for Energy Applications: A Review. Current Nanoscience, 2020, 16, 462-477.	0.7	19
7349	Reality and Future of Rechargeable Lithium Batteries. Open Materials Science Journal, 2011, 5, 204-214.	0.2	43
7350	Preparation of PbI2 Microflakes by pH-Controlled Double-Jet Precipitation. Open Chemistry Journal, 2019, 6, 52-65.	4.3	6
7351	Three-Dimensional Porous LiFePO4: Design, Architectures and High Performance for Lithium Ion Batteries. Current Inorganic Chemistry, 2012, 2, 194-212.	0.2	39
7352	Electrodes with High Conductivities for High Performance Lithium/Sodium Ion Batteries. Engineered Science, 2018, , .	1.2	27

#	Article	IF	Citations
7353	Nanostructured Electrode Materials for Rechargeable Lithium-Ion Batteries. Journal of Electrochemical Science and Technology, 2020, 11, 195-219.	0.9	25
7354	High-Performance Li-ion Batteries and Supercapacitors Based on Prospective 1-D Nanomaterials. , 2011, 3, 62.		4
7355	Hot-Injection Thermolysis of Cobalt Antimony Nanoparticles with Co(II)-Oleate and Sb(III)-Oleate. Journal of the Korean Ceramic Society, 2016, 53, 367-375.	1.1	1
7356	Electron Beam Assisted Gas Phase Synthesis of SiO2 Nanoparticles in an Ambient Condition. Aerosol and Air Quality Research, 2012, 12, 1467-1471.	0.9	2
7357	Growth, Microstructure and Electrochemical Properties of RF Sputtered LiMn₂O₄ Thin Films on Au/Polyimide Flexible Substrates. Materials Sciences and Applications, 2013, 04, 128-133.	0.3	4
7358	Nanofiller Dispersion in Polymer Dielectrics. Materials Sciences and Applications, 2013, 04, 6-15.	0.3	11
7359	ZnO Planar-Tetrapod Synthesized by Cethyltrimethylamonium Hydroxide-Assisted Hydrothermal Method at Low Temperature. World Journal of Condensed Matter Physics, 2015, 05, 339-345.	1.1	1
7360	Synthesis of Mesoporous Carbons with Controllable N-Content and Their Supercapacitor Properties. Bulletin of the Korean Chemical Society, 2008, 29, 413-416.	1.0	34
7361	Increase in Discharge Capacity of Li Battery Assembled with Electrochemically Prepared V₂O₅/polypyrrole-composite-film Cathode. Bulletin of the Korean Chemical Society, 2010, 31, 3109-3114.	1.0	18
7362	Synthesis and Electrochemical Characterization of Polypyrrole/Multi-walled Carbon Nanotube Composite Electrodes for Supercapacitor Applications. Bulletin of the Korean Chemical Society, 2010, 31, 1228-1232.	1.0	47
7363	Facile Synthesis of Co3O4/Mildly Oxidized Multiwalled Carbon Nanotubes/Reduced Mildly Oxidized Graphene Oxide Ternary Composite as the Material for Supercapacitors. Bulletin of the Korean Chemical Society, 2014, 35, 1349-1355.	1.0	3
7364	Aluminium Salt of Phosphomolybdic Acid Fabricated by Nanocasting Strategy: An Efficient System for Selective Oxidation of Benzyl Alcohols. Journal of the Korean Chemical Society, 2012, 56, 591-596.	0.2	2
7365	High-Performance Li-ion Batteries and Supercapacitors Base on 1-D Nanomaterials in Prospect. Nano-Micro Letters, 2011, 3, 62.	14.4	2
7366	Functional Nanomaterials For Energy And Sustainability. Advanced Materials Letters, 2014, 5, 236-241.	0.3	2
7367	Cycling Performance of Supercapacitors Assembled with Polypyrrole/Multi-Walled Carbon Nanotube/Conductive Carbon Composite Electrodes. Journal of Electrochemical Science and Technology, 2011, 2, 91-96.	0.9	10
7368	Synthesis and Electrochemical Properties of Nanocrystalline LiFePO₄Obtained by Different Methods. Journal of Electrochemical Science and Technology, 2011, 2, 103-109.	0.9	5
7369	Synthesis and Performance of Li2MnSiO4as an Electrode Material for Hybrid Supercapacitor Applications. Journal of Electrochemical Science and Technology, 2012, 3, 72-79.	0.9	2
7370	A Carbon Nanotubes-Silicon Nanoparticles Network for High Performance Lithium Rechargeable Battery Anodes. Journal of Electrochemical Science and Technology, 2012, 3, 116-122.	0.9	3

#	Article	IF	Citations
7371	Synthesis of TiO₂nanoparticles induced by electron beam irradiation and their electrochemical performance as anode materials for Li-ion batteries. Journal of Electrochemical Science and Technology, 2015, 6, 75-80.	0.9	3
7372	Transition Metal-Doped Lithium Titanium Oxide Nanoparticles Made Using Flame Spray Pyrolysis. ISRN Nanotechnology, 2011, 2011, 1-6.	1.3	12
7373	Effect of crystallinity on the electrochemical properties of carbon black electrodes. Carbon Letters, 2011, 12, 252-255.	3.3	22
7374	Waste coffee grounds-derived nanoporous carbon nanosheets for supercapacitors. Carbon Letters, 2016, 19, 66-71.	3.3	55
7376	Electrochemical Properties of Tungsten Oxide Nanowires Compared to Bulk Particles. Japanese Journal of Applied Physics, 2012, 51, 11PE06.	0.8	3
7377	Electrochemical Properties of Porous Co(OH)2Nano-flake Thin Film Prepared by Electro-deposition for Supercapacitor. Korean Chemical Engineering Research, 2016, 54, 157-162.	0.2	1
7378	Honeycomb Structured Î±-MnS@N-HC Nanocomposite Fabricated by Sol-Gel Pyrolysis Blowing Method and Its High-Performance Lithium Storage. Materials Today Energy, 2021, 22, 100876.	2.5	5
7379	Wide Voltage Aqueous Asymmetric Supercapacitors: Advances, Strategies, and Challenges. Advanced Functional Materials, 2022, 32, 2108107.	7.8	90
7380	Thermally Activated P2â€O3 Mixed Layered Cathodes toward Synergistic Electrochemical Enhancement for Na Ion Batteries. Advanced Energy Materials, 2021, 11, 2102444.	10.2	17
7381	Nickel Cobaltite: A Positive Electrode Material for Hybrid Supercapacitors. ChemSusChem, 2021, 14, 5384-5398.	3.6	17
7382	The Non-local Effects Induced by Rapid Transient Mass Diffusion in a Spherical Silicon Electrode of Lithium-ion Batteries. Acta Mechanica Solida Sinica, 2022, 35, 174-184.	1.0	3
7383	MoO₃@ZnO Nanocomposite as an Efficient Anode Material for Supercapacitors: A Cost Effective Synthesis Approach. Energy & Fuels, 2021, 35, 16850-16859.	2.5	19
7384	Carbon Additive-Free Crumpled Ti₃C₂T_X MXene-Encapsulated Silicon Nanoparticle Anodes for Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 10762-10773.	2.5	20
7385	Simple Liquid-Phase Synthesis of Cobalt Carbide (Co₂C) Nanoparticles and Their Use as Durable Electrocatalysts. Materials Transactions, 2021, 62, 1632-1638.	0.4	1
7386	Novel self-supporting multilevel-3D porous NiO nanowires with metal-organic gel coating via â€œlike dissolves likeâ€•to trigger high-performance binder-free lithium-ion batteries. Microporous and Mesoporous Materials, 2021, 328, 111483.	2.2	8
7387	Evolution and recent developments of high performance electrode material for supercapacitors: A review. Journal of Energy Storage, 2021, 44, 103366.	3.9	80
7388	Doped Vanadium Nitride Nanostructures for Stable Supercapacitor Applications. ECS Meeting Abstracts, 2010, , .	0.0	0
7389	Lithium Ion Concentration Dependant Ionic Conductivity and Thermal Properties in Solid Poly(PEGMA-co-acrylonitrile) Electrolytes. Journal of Electrochemical Science and Technology, 2010, 1, 57-62.	0.9	0

#	Article	IF	Citations
7391	Efficient Mechanical Method for Manufacturing Homogenous Carbon Nanosheets. , 2011, , 35-38.		0
7392	Effect of Porosity on Cycle Performance in Three-Dimensional Disk Electrode for Li Ion Battery. Japanese Journal of Applied Physics, 2011, 50, 100201.	0.8	0
7393	Nanomechanical Properties of Lithiated Silicon Nanowires Probed with Atomic Force Microscopy. Applied Science and Convergence Technology, 2011, 20, 395-402.	0.3	0
7394	Rietveld Refinement of Nanocrystalline LiFeO₂ Synthesized by Sol-Gel Method and Its Structural and Magnetic Properties. Journal of Crystallization Process and Technology, 2012, 02, 152-155.	0.6	4
7395	Chemically Deposited Sb2Se3 Anode for Thin Film Lithium Batteries. Communications in Computer and Information Science, 2012, , 221-228.	0.4	0
7396	Structural Analysis at an Atomic Scale Using Spherical Aberration Corrected Electron Microscope. Nihon Kessho Gakkaishi, 2012, 54, 159-165.	0.0	0
7397	Preparation and Electrochemical Properties of PANI/TiO2Composites for Supercapacitor Electrodes. Korean Chemical Engineering Research, 2012, 50, 50-54.	0.2	1
7398	Nanostructured Materials for Energy Storage Devices. The Electrical Engineering Handbook, 2012, , 713-738.	0.2	0
7399	Nano/Composite Materials for Lithium-ion Batteries. , 2012, , 541-642.		0
7400	CCVD Synthesis of Carbon Nanotubes. Engineering Materials, 2013, , 43-60.	0.3	0
7401	Electrochemical properties of carbon nanofibers as the negative electrode in lithium-ion batteries. Tanso, 2013, 2013, 52-56.	0.1	0
7402	Templating of Metal Oxides by Electrodeposition. Springer Theses, 2013, , 85-115.	0.0	0
7403	Nanostructured Electrode Materials for Lithium-ion Battery. , 2013, , 99-143.		0
7404	Synthesis, Chracterization and Pseudo-Capacitive Performance of MnOx/CNT Heteronanostructures. , 2013, , 27-34.		0
7405	Synthesis of Amorphous Iron Oxide Nanosheets and Study on Its Lithium Storage Mechanism. ECS Meeting Abstracts, 2013, , .	0.0	0
7406	Nanotechnology and clean energy: sustainable utilization and supply of critical materials. , 2013, , 289-303.		2
7407	Modeling and Analysis of Strain Effects on Thermoelectric Figure of Merit in Si/Ge Nanocomposites. Lecture Notes in Nanoscale Science and Technology, 2014, , 451-495.	0.4	1
7408	Nanotechnology and the Law of Armed Conflict. , 2014, , 143-157.		1

#	Article	IF	Citations
7409	Nanostructured Materials for the Realization of Electrochemical Energy Storage and Conversion Devices. Advances in Chemical and Materials Engineering Book Series, 2014, , 376-413.	0.2	0
7410	Environmental Interactions of Geo- and Bio-Macromolecules with Nanomaterials. , 2014, , 257-290.		0
7411	Optimizing Electrodes for Lithium-ion Cells. Green Energy and Technology, 2014, , 63-88.	0.4	0
7412	Electronic Structure of Graphene and Related Materials Studied by ARPES. Journal of the Vacuum Society of Japan, 2014, 57, 416-422.	0.3	1
7413	Manganese Oxide/Carbon Nanotube Nanocomposites for Electrochemical Energy Storage Applications. , 2014, , 281-316.		0
7414	Nano Anode Materials for Lithium-Ion Batteries. , 2014, , 127-176.		1
7416	Electrospinning Process: A Comprehensive Review and Update. , 2014, , 19-126.		1
7417	One-step Microwave Synthesis of Hierarchical Structured LiFePO₄using Citric Acid. Bulletin of the Korean Chemical Society, 2014, 35, 2901-2905.	1.0	2
7418	Study of ternary metal oxides as supercapacitor electrodes. , 2014, , .		0
7419	Energy Textiles. Nanostructure Science and Technology, 2015, , 199-211.	0.1	0
7420	Low-Temperature Fuel Cell Technology for Green Energy. , 2015, , 1-38.		0
7421	ELECTRODES | Nanoelectrodes â˜†. , 2015, , .		0
7422	Thermal Considerations for Supercapacitors. SpringerBriefs in Applied Sciences and Technology, 2015, , 11-26.	0.2	0
7423	Nanoelectrodes in Electrochemical Analysis. RSC Detection Science, 2015, , 205-228.	0.0	1
7424	Nanostructures for Energy. , 2015, , 1-15.		0
7425	Urgency of LiFePO₄ as cathode material for Li-ion batteries. Advances in Materials Research (South Korea), 2015, 4, 63-76.	0.6	0
7427	Super P-modified LiFePO4 cathode for lithium ion battery beyond theoretical capacity. , 2015, , 255-258.		1
7429	ITO Nanowires-embedded Transparent Metal-oxide Semiconductor Photoelectric Devices. Journal of the Korean Institute of Electrical and Electronic Material Engineers, 2015, 28, 808-812.	0.0	0

#	Article	IF	Citations
7430	2D Nanowire Synthesis: Invention of Coaxial Lithography. Springer Theses, 2016, , 43-61.	0.0	0
7431	Capacitance of MnO2 Micro-flowers Decorated CNFsin Alkaline Electrolyte and Its Bi-functional Electrocatalytic Activity Toward Hydrazine Oxidation. , 2016, , .		0
7432	Hybrid Modeling of Membrane Processes. , 2016, , 149-172.		0
7433	The Effect of Precursors Concentration on the Structure and Micromagnetic Properties of Ultrafine Iron Oxides Obtained by Sol-Gel Route. Journal of Vasyl Stefanyk Precarpathian National University, 2020, 3, 38-45.	0.1	0
7434	A Novel Microdevice for In Situ Study of Mechano-Electrochemical Behavior with Controlled Temperature. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 51-56.	0.3	0
7435	Nanostructured Materials for the Realization of Electrochemical Energy Storage and Conversion Devices. , 2017, , 1719-1758.		0
7436	Conducting Polymers/Inorganic Nanohybrids for Energy Applications. Engineering Materials and Processes, 2017, , 365-417.	0.2	1
7438	Lithium Intercalation Materials for Battery Prepared by Solâ€“Gel Method. , 2017, , 1-36.		1
7439	Nonstoichiometric Phasesâ€”Composition, Properties and Phase Transitions. Hot Topics in Thermal Analysis and Calorimetry, 2017, , 177-194.	0.5	0
7441	Release of chemisorbed hydrogen from carbon nanotubes: Insights from ab-initio molecular dynamics simulations. International Journal of Hydrogen Energy, 2017, 42, 21191-21197.	3.8	2
7442	Fundamentals of silicon nanotubes. Series in Materials Science and Engineering, 2017, , 537-564.	0.1	0
7443	Synthesis and properties of nanoparticles based on Đ¡/Fe3O4, Đ¡/Fe3-xCrxO4, Đ¡/Li0.5Fe1.5CrO4 â€“ anode materials for lithium-ion batteries. Himia, Fizika Ta Tehnologia Poverhni, 2017, 8, 448-454.	0.2	0
7444	Introduction to Fundamental Concepts. SpringerBriefs in Applied Sciences and Technology, 2018, , 1-26.	0.2	0
7445	Nanostructured Device in Sensing Applications: A Review. Eurasian Journal of Science and Engineering, 2018, 4, .	0.5	1
7446	Lithium Cluster (Li₄₈) Realized by a Defined Cage as Anode in Lithium-Based Batteries. SSRN Electronic Journal, 0, , .	0.4	0
7447	Synthesis and Characterization on Nickel Orthosilicate Anode of Lithium-Ion Battery. Minerals, Metals and Materials Series, 2018, , 53-59.	0.3	0
7448	One-Dimensional Colloidal Hetero-Nanomaterials with Programmed Semiconductor Morphology and Metal Location for Enhancing Solar Energy Conversion. Springer Theses, 2018, , 77-94.	0.0	0
7450	Technology Policy and Road Map of Battery. , 2019, , 1-59.		0

#	Article	IF	Citations
7451	Gel Polymer Electrolytes. , 2019, , 102-129.		1
7452	Synthesis of Nanostructured Garnets. , 2019, , 25-68.		2
7453	Proton Conductions. Polymers and Polymeric Composites, 2019, , 977-1010.	0.6	0
7454	Cathode Materials, Samples, Pristine, Layered, Doping, Discharge Capacity. , 2019, , 73-161.		0
7455	High Temperature Supercapacitor with Free Standing Quasi-solid Composite Electrolytes. Korean Journal of Materials Research, 2019, 29, 121-128.	0.1	1
7456	Improving the electrical conductivity of multi-phase polymer composites via plasticizer assisted nanoparticle dispersion. , 2019, , .		0
7457	Electrochemical Capacitance Properties of Electrode Based on Polyaniline Coated Graphite Nanoplatelets/Polystyrene Composite Film. Journal of Electrochemical Energy Conversion and Storage, 2020, 17, .	1.1	2
7459	Lithium-Ion Batteries for Electric Vehicle Application. Annals of Chemical Science Research, 2020, 2, .	0.1	0
7460	Microwave synthesis of Zn:Mn:PbI₂ micro-size nanosheets and their characterizations. Materials Science-Poland, 2020, 38, 367-373.	0.4	0
7461	Triggering anomalous capacity by nanoengineered ordered mesoporous structure for Co3O4 anode material in Li-ion rechargeable batteries. Applied Surface Science, 2022, 575, 151744.	3.1	8
7462	Effects of ammonium chloride on structural stability of cobalt carbonate hydroxide and their improved electrochemical performance for supercapacitor. Journal of Energy Storage, 2021, 44, 103472.	3.9	2
7464	Solid-State Hydrogen Storage Materials. SpringerBriefs in Applied Sciences and Technology, 2020, , 41-67.	0.2	0
7465	Thermal performance of hybrid thermal interface graphene nanocomposites. Journal of Physics: Conference Series, 2020, 1683, 032041.	0.3	1
7466	Synthesis and Electrochemical Research of the Properties of Mixed Nickel-Cobalt Oxides as Materials for Energy Storage Devices. Russian Journal of Applied Chemistry, 2020, 93, 1837-1844.	0.1	0
7467	Nanotubular Nickel Hydrosilicate and Its Thermal Annealing Products as Anode Materials for Lithium Ion Batteries. Inorganic Materials, 2020, 56, 1248-1257.	0.2	4
7468	Advanced self-charging power packs: The assimilation of energy harvesting and storage systems. , 2022, , 441-477.		1
7469	Bimetallic metalâ€“organic frameworks and MOF-derived composites: Recent progress on electro- and photoelectrocatalytic applications. Coordination Chemistry Reviews, 2022, 451, 214264.	9.5	203
7470	Effect of length of ZnO nanorods on photoelectrochemical efficiency for solar cell applications.. AIP Conference Proceedings, 2020, , .	0.3	2

#	Article	IF	Citations
7471	Smart Textiles. , 2020, , 427-457.		1
7472	Nanotoxicity and regulatory aspects in musculoskeletal regeneration. , 2020, , 197-235.		0
7474	Ð¡Ð¾Ð·Ð´Ð°Ð½Ð¸Ðµ Ð½Ð°Ð½Ð¾ÑÑ‚Ñ€ÑƒÐºÑ‚ÑƒÑ€Ð¸Ñ€Ð¾Ð²Ð°Ð½Ð½Ñ‹Ñ… ÐºÐ¾Ð¼Ð¿Ð¾Ð·Ð¸Ñ‚Ð½Ñ‹Ñ…		0
7475	Synthesis of g-C3N4/BiVO4 and Its Photocatalytic Performance for Hydrogen Production. Arabian Journal for Science and Engineering, 2020, 45, 4659-4667.	1.7	3
7476	Copper Bimetals and Their Nanocomposites. , 0, , .		1
7477	A Lithiumâ€Silicon Microbattery with Anode and Housing Directly Made from Semiconductor Grade Monocrystalline Si. Advanced Materials Technologies, 2022, 7, .	3.0	8
7478	Catalytic performance of nanostructured materials recently used for developing fuel cellsâ€™ electrodes. International Journal of Hydrogen Energy, 2021, 46, 39315-39368.	3.8	20
7479	An active ZnxNi1-xS@Mo2C/carbon cloth electrode as efficient catalyst for water electrolysis. Vacuum, 2022, 196, 110729.	1.6	7
7480	Titanium niobium oxides (TiNb2O7): Design, fabrication and application in energy storage devices. Sustainable Materials and Technologies, 2021, 30, e00357.	1.7	14
7481	Nanocrystalline Cellulose Supported MnO2 Composite Materials for High-Performance Lithium-Ion Batteries. Materials, 2021, 14, 6619.	1.3	6
7482	Three Dimensional Porous Binary Metal Oxide Networks for High Performance Supercapacitor Electrodes. , 0, , 167-192.		0
7484	EXCELLENT ELECTROCATALYSIS OF OXYGEN EVOLUTION USING Co(OH)x(WO4)y/MESOPOROUS CARBON NANOCOMPOSITES. Surface Review and Letters, 2021, 28, 2050032.	0.5	0
7485	Role of Transport in the First Atomic Layers of Nanoparticles in Lithium Batteries. Journal of the Electrochemical Society, 2020, 167, 140538.	1.3	0
7486	Past, present, and future of electrochemical energy storage: A brief perspective. Frontiers of Nanoscience, 2021, , 1-28.	0.3	2
7487	In situ studies of energy-related electrochemical reactions using Raman and X-ray absorption spectroscopy. Chinese Journal of Catalysis, 2022, 43, 33-46.	6.9	28
7488	Polymer/graphene nanocomposites as versatile platforms for energy and electronic devices. , 2022, , 173-196.		0
7489	Modern Progression in Anode Materials for Lithium-Ion Batteries: Review. Advances in Sustainability Science and Technology, 2022, , 595-603.	0.4	0
7490	A limitation map of performance for porous electrodes in lithium-ion batteries. IScience, 2021, 24, 103496.	1.9	5

#	Article	IF	Citations
7491	Optical constants, dispersion parameters and energy loss functions of crystal violet as a potential absorber thin film for solar energy conversion and storage applications. Optical Materials, 2021, 122, 111793.	1.7	2
7492	Multiprocess Laser Liftingâ€Off for Nanostructured Semiconductive Hydrogels. Advanced Materials Interfaces, 0, , 2101250.	1.9	7
7493	Fabrication of GeS-graphene composites for electrode materials in lithium-ion batteries. Materials Research Express, 2021, 8, 115013.	0.8	5
7494	Internal Electric Field on Steering Charge Migration: Modulations, Determinations and Energyâ€Related Applications. Advanced Functional Materials, 2022, 32, .	7.8	63
7495	Confinement of TiO2 quantum dots in graphene nanoribbons for high-performance lithium and sodium ion batteries. Journal of Alloys and Compounds, 2022, 898, 162856.	2.8	14
7496	Semi-Immobilized Molecular Electrocatalysts for High-Performance Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2021, 143, 19865-19872.	6.6	173
7497	Oxygen-vacancy abundant alpha bismuth oxide with enhanced cycle stability for high-energy hybrid supercapacitor electrodes. Journal of Colloid and Interface Science, 2022, 609, 878-889.	5.0	45
7498	An approach for quantum capacitance of graphene, carbon nanotube, silicene and hexagonal boron nitride nanoscale supercapacitors by non-equilibrium Greenâ€™s function method. FlatChem, 2022, 31, 100313.	2.8	1
7499	Recent Progress of Subâ€Nanometric Materials in Photothermal Energy Conversion. Advanced Science, 2022, 9, e2104225.	5.6	23
7500	Superconductivity induced by Ag intercalation in Dirac semimetal Bi2Se3. Computational Materials Science, 2022, 210, 110989.	1.4	1
7501	Preparation of Electrode Materials Based on Carbon Cloth via Hydrothermal Method and Their Application in Supercapacitors. Materials, 2021, 14, 7148.	1.3	12
7502	A novel composite of SnO nanoparticles and SiO2@N-doped carbon nanofibers with durable lifespan for diffusion-controlled lithium storage. Journal of Alloys and Compounds, 2022, 897, 162703.	2.8	10
7503	Theory-oriented screening and discovery of advanced energy transformation materials in electrocatalysis. , 2022, 1, 100013.		273
7504	Facile synthesis of NiCo2O4 nanosheets with oxygen vacancies for aqueous zinc-ion supercapacitors. Journal of Alloys and Compounds, 2022, 896, 162925.	2.8	13
7505	Critical Review on Lowâ€Temperature Liâ€Ion/Metal Batteries. Advanced Materials, 2022, 34, e2107899.	11.1	204
7506	Single-atom catalysis for zinc-air/O2 batteries, water electrolyzers and fuel cells applications. Energy Storage Materials, 2022, 45, 504-540.	9.5	39
7507	Electrochemical investigation of NiCo double hydroxides for supercapacitors. Materials Letters: X, 2021, 12, 100114.	0.3	1
7508	Synthesis of hierarchical structured Gd doped Î±-Sb2O4 as an advanced nanomaterial for high performance energy storage devices. Heliyon, 2021, 7, e08541.	1.4	34

#	Article	IF	Citations
7509	First-principles study on h-BSi₃ sheet as a promising high-performance anode for sodium-ion batteries. Physical Chemistry Chemical Physics, 2021, 23, 27282-27293.	1.3	4
7510	Effect of cathode on crosstalk in Si-based lithium-ion cells. Journal of Materials Chemistry A, 2021, 9, 26904-26916.	5.2	8
7511	Graphene Hybrids Intercalated with 2D Redox-Active Covalent Organic Framework as High-Performance Capacitive Materials. SSRN Electronic Journal, 0, , .	0.4	0
7512	Energy Storage, Photocatalytic and Electrochemical Nitrite Sensing of Ultrasound-Assisted Stable Ta2O5 Nanoparticles. Topics in Catalysis, 0, , 1.	1.3	28
7513	Recent advances in MoS₂-based materials for electrocatalysis. Chemical Communications, 2022, 58, 2259-2278.	2.2	30
7514	Nitrogen doped graphene with diamond-like bonds achieves unprecedented energy density at high power in a symmetric sustainable supercapacitor. Energy and Environmental Science, 2022, 15, 740-748.	15.6	51
7515	Direct Observation of Three-Dimensional Atomic Structure of Twinned Metallic Nanoparticles and Their Catalytic Properties. Nano Letters, 2022, 22, 665-672.	4.5	17
7516	Piezoelectric-driven self-accelerated anion migration for SiOX-C/PbZr0.52Ti0.48O3 with durable lithium storage performance. Ceramics International, 2022, 48, 11257-11264.	2.3	7
7517	Ultrafine Li4Ti5O12 nanocrystals as building blocks for ultrahigh-power lithium-ion battery anodes. Journal of Power Sources, 2022, 521, 230970.	4.0	19
7518	Electrostatic self-assembly assisted hydrothermal synthesis of bimetallic NiCo2S4@N, S co-doped graphene for high performance asymmetric supercapacitors. Electrochimica Acta, 2022, 404, 139751.	2.6	16
7519	Understanding Na-ion adsorption in nitrogen doped graphene oxide anode for rechargeable sodium ion batteries. Applied Surface Science, 2022, 579, 152147.	3.1	22
7520	Increased ion transport and high-efficient osmotic energy conversion through aqueous stable graphitic carbon nitride/cellulose nanofiber composite membrane. Carbohydrate Polymers, 2022, 280, 119023.	5.1	28
7521	CoMoO4 enhanced anodized cobalt oxide nanotube as an efficient electrocatalyst for hydrogen evolution reaction. Applied Surface Science, 2022, 579, 152128.	3.1	9
7522	Ultrahigh reversible hydrogen capacity and synergetic mechanism of 2LiBH4-MgH2 system catalyzed by dual-metal fluoride. Chemical Engineering Journal, 2022, 433, 134482.	6.6	19
7523	Construction of vertically aligned Ni-Co-Mo hybrid oxides nanosheet array for high-performance hybrid supercapacitors. Journal of Alloys and Compounds, 2022, 899, 163267.	2.8	7
7524	Ambient-air in situ fabrication of high-surface-area, superhydrophilic, and microporous few-layer activated graphene films by ultrafast ultraviolet laser for enhanced energy storage. Nano Energy, 2022, 94, 106902.	8.2	23
7525	Rational design and preparation of covalent organic frameworks and their functional mechanism analysis for lithium-ion and lithium sulfur/selenium cells. Energy Storage Materials, 2022, 46, 29-67.	9.5	12
7526	Three-dimensional flexible molybdenum oxynitride thin film as a high capacity anode for Li-ion batteries. Journal of Colloid and Interface Science, 2022, 611, 183-192.	5.0	6

#	Article	IF	Citations
7528	Synthesis and Electrochemical Characterization of NiCo(_2)S(_4) Nanosheets/reduced Graphene Oxide for Energy Storage Applications. Communications in Physics, 2020, 30, 399.	0.0	0
7529	Porous Carbon Derived from Nutshell as Electrode Materials for Supercapacitors. International Journal of Electrochemical Science, 0, , 10979-10993.	0.5	0
7530	Energy Management Method for Hybrid Energy Storage Tram Based on Equivalent Loss Instantaneous Optimization. , 2020, , .		0
7531	High Yield Design of Mesoporous Tetrakaidecahedron-Like Î'-Fe ₂O ₃ Nanocrystals with Enhanced Supercapacitive Performance. SSRN Electronic Journal, 0, , .	0.4	0
7532	Effects of loading rate and peak load on nanoindentation creep behavior of DD407Ni-base single crystal superalloy. Transactions of Nonferrous Metals Society of China, 2022, 32, 206-216.	1.7	6
7533	Oxides free materials as anodes for sodium-ion batteries. , 2022, , 177-199.		1
7534	Extraction of unburned carbon from coal fly ash. , 2022, , 403-449.		1
7535	NiSe₂/FeSe₂ heterostructured nanoparticles supported on rGO for efficient water electrolysis. Inorganic Chemistry Frontiers, 2022, 9, 448-457.	3.0	21
7536	Recent advances in conductive polymer hydrogel composites and nanocomposites for flexible electrochemical supercapacitors. Chemical Communications, 2021, 58, 185-207.	2.2	81
7537	Electrode Materials for Supercapacitors in Hybrid Electric Vehicles: Challenges and Current Progress. Condensed Matter, 2022, 7, 6.	0.8	66
7539	A review of sodium chloride-based electrolytes and materials for electrochemical energy technology. Journal of Materials Chemistry A, 2022, 10, 2637-2671.	5.2	23
7540	Synergistic Decoration of Ultrasmall Pd NPs and Conductive Poly(3,4-ethylenedioxythiophene) Coatings on a Hydrazone Covalent Organic Framework for Boosting Ethanol Electrooxidation. ACS Sustainable Chemistry and Engineering, 2022, 10, 1961-1971.	3.2	11
7541	In situ formation of Co3O4 nanocrystals embedded in laser-induced graphene foam for high-energy flexible micro-supercapacitors. Dalton Transactions, 2022, , .	1.6	2
7542	Recent advances and fundamentals of Pseudocapacitors: Materials, mechanism, and its understanding. Journal of Energy Storage, 2022, 45, 103654.	3.9	81
7543	Morphology evolution and electrochemical behavior of NixMn1-x(OH)2 mixed hydroxides as high-performance electrode for supercapacitor. Electrochimica Acta, 2022, 403, 139692.	2.6	5
7544	Oxygen vacancies enable excellent electrochemical kinetics of carbon coated mesoporous SnO2 nanoparticles in lithium ion batteries. Materials Advances, 2022, 3, 1617-1628.	2.6	2
7545	A Nanoscale Design Approach for Enhancing the Li-Ion Conductivity of the Li₁₀GeP₂S₁₂ Solid Electrolyte. , 2022, 4, 424-431.		23
7546	Hostâ€"Guest Interlocked Complex Binder for Siliconâ€"Graphite Composite Electrodes in Lithium Ion Batteries. Advanced Energy Materials, 2022, 12, .	10.2	32

#	Article	IF	Citations
7547	Tailored 3D Foams Decorated with Nanostructured Manganese Oxide for Asymmetric Electrochemical Capacitors. Journal of the Electrochemical Society, 2022, 169, 020511.	1.3	2
7548	Active-screen plasma surface multi-functionalisation of biopolymers and carbon-based materials â€“ An overview. Surface and Coatings Technology, 2022, 442, 128188.	2.2	10
7549	Reduced Graphene Oxide Aerogels with Functionalization-Mediated Disordered Stacking for Sodium-Ion Batteries. Batteries, 2022, 8, 12.	2.1	5
7550	Enhance the anchoring and catalytic performance of lithium-sulfur batteries for lithium polysulfide by predicted TiS2 monolayer. Materials Today Communications, 2022, 30, 103196.	0.9	6
7551	NiSe2@NiO heterostructure with optimized electronic structure as efficient electrocatalyst for lithium-oxygen batteries. Journal of Alloys and Compounds, 2022, 901, 163703.	2.8	11
7552	Pseudo spin-ladder CaCu2O3 nanostructures as potential electrode material for asymmetric supercapacitors. Journal of Energy Storage, 2022, 48, 104051.	3.9	9
7553	Graphene quantum dots: A contemporary perspective on scope, opportunities, and sustainability. Renewable and Sustainable Energy Reviews, 2022, 157, 111993.	8.2	41
7554	Assemble 2D redox-active covalent organic framework/graphene hybrids as high-performance capacitive materials. Carbon, 2022, 190, 412-421.	5.4	24
7555	High-voltage lithium-ion capacitors enabled by a multifunctional phosphite electrolyte additive. Energy Storage Materials, 2022, 46, 431-442.	9.5	9
7556	TiO2 encrusted MXene as a High-Performance anode material for Li-ion batteries. Applied Surface Science, 2022, 583, 152441.	3.1	29
7557	Solid state ionics â€“ Selected topics and new directions. Progress in Materials Science, 2022, 126, 100921.	16.0	39
7558	Nanocrystalline NiO powder: Synthesis, characterization and emerging applications. , 2022, , 529-550.		5
7559	Hierarchically Hybrid Porous Co₃O₄@NiMoO₄/CoMoO₄ Heterostructures for High-Performance Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2022, 14, 8282-8296.	4.0	22
7560	A micron-size carbon-free K3V2O2(PO4)2F cathode with high-rate performance for potassium-ion batteries. Chemical Engineering Journal, 2022, 436, 135235.	6.6	12
7561	A New Era of Integrative Ice Frozen Assembly into Multiscale Architecturing of Energy Materials. Advanced Functional Materials, 2022, 32, .	7.8	21
7562	NiCoO2 nanosheets interlayer network connected in reduced graphene oxide and MXene for high-performance asymmetric supercapacitors. Journal of Energy Storage, 2022, 49, 104176.	3.9	12
7563	Nano and Battery Anode: A Review. Nanoscale Research Letters, 2021, 16, 177.	3.1	36
7564	Ambient-Air <i>in Situ</i> Fabrication of High-Surface-Area, Superhydrophilic, and Microporous Few-Layer Activated Graphene Films by Ultrafast Ultraviolet Laser for Enhanced Energy Storage. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
7566	Computational screening of functionalized MXenes to catalyze the solid and non-solid conversion reactions in cathodes of lithiumâ€“sulfur batteries. Physical Chemistry Chemical Physics, 2022, 24, 8913-8922.	1.3	4
7567	ÐÐ»ÐµÐºÑ‚Ñ€Ð¾Ð´Ð½Ñ‹Ð¹ Ð¼Ð°Ñ‚ÐµÑ€Ð¸Ð°Ð» Ð´Ð»Ñ•ÑƒÐ¿ÐµÑ€ÐºÐ¾Ð½Ð´ÐµÐ½ÑÐ°Ñ‚Ð¾Ñ€Ð¾Ð² Ð½Ð° Ð¾ÑÐ½Ð¾Ð²Ðµ		
7568	A magnetic porous organic polymer: catalytic application in the synthesis of hybrid pyridines with indole, triazole and sulfonamide moieties. RSC Advances, 2022, 12, 8804-8814.	1.7	16
7569	Pitchâ€black surface stemming from selfâ€standing ZnFe ₂ O ₄ nanowalls. Nano Select, 0, , .	1.9	0
7570	Versatile Synthesis of Mesoporous Crystalline TiO₂ Materials by Monomicelle Assembly. Angewandte Chemie - International Edition, 2022, 61, .	7.2	21
7571	Versatile Syntheses ofÂMesoporous Crystalline TiO2 Materials from Monoâ€micelle Assembly. Angewandte Chemie, 0, , .	1.6	0
7572	Electrochemical capacitance performance of high surface area, porous hematite (Î±-Fe2O3) nanorods. Journal of Materials Science: Materials in Electronics, 2022, 33, 7109-7118.	1.1	2
7573	Rice Husk-Derived Mesoporous Silica Nanostructure for Supercapacitors Application: a Possible Approach for Recycling Bio-Waste into a Value-Added Product. Silicon, 2022, 14, 10129-10135.	1.8	10
7574	Heteroatom-doped reduced graphene oxide integrated with nickel-cobalt phosphide for high-performance asymmetric hybrid supercapacitors. Materials Today Nano, 2022, 18, 100195.	2.3	11
7575	Electric Properties of Multiwalled Carbon Nanotubes Dispersed in Liquid Crystals and Their Influence on Freedericksz Transitions. Nanomaterials, 2022, 12, 1119.	1.9	7
7576	Reduction of Capacity Fading in High-Voltage NMC Batteries with the Addition of Reduced Graphene Oxide. Materials, 2022, 15, 2146.	1.3	7
7577	A new pathway for formic acid electro-oxidation: The electro-chemically decomposed hydrogen as a reaction intermediate. Journal of Energy Chemistry, 2022, 71, 188-191.	7.1	14
7578	Threeâ€Dimensional MXenes for Supercapacitors: A Review. Small Methods, 2022, 6, e2101537.	4.6	75
7579	Understanding the Effect of Cathode Composition on the Interface and Crosstalk in NMC/Si Full Cells. ACS Applied Materials & Interfaces, 2022, 14, 15103-15111.	4.0	15
7580	Electrochemical energy storage on nanoporous copper sponge. Journal of Materials Research, 0, , 1.	1.2	2
7581	Facile construction of single-crystalline sodium niobate anode materials: insight into the relationship of the morphology and excellent performance for lithium-ion batteries. Journal of Materials Science, 2022, 57, 5987-5997.	1.7	5
7582	Unusual pseudocapacitive lithium-ion storage on defective Co₃O₄ nanosheets. Nanotechnology, 2022, 33, 225403.	1.3	6
7583	Electrode Material for Supercapacitors Based on Products of Solid Phase Pyrolysis of Metal-Phthalocyanines. Journal of Contemporary Physics, 2022, 57, 76-80.	0.1	1

#	Article	IF	Citations
7584	Revealing interfacial space charge storage of Li+/Na+/K+ by operando magnetometry. Science Bulletin, 2022, 67, 1145-1153.	4.3	23
7586	Amorphous cellulose nanofiber supercapacitors with voltage-charging performance. Scientific Reports, 2022, 12, 5619.	1.6	5
7587	Low-cost and facile synthesis of chromium doped PbI2 nanostructures for optoelectronic devices and radiation detectors: Comparative study. Applied Surface Science Advances, 2022, 8, 100226.	2.9	0
7588	Comparative study of the synthesis of sub 10 nm carbon supported gold nanoparticles and their suitability for the methanol electrooxidation in alkaline media. ChemNanoMat, 0, , .	1.5	3
7589	Dynamics of Li deposition on epitaxial graphene/Ru(0001) islands. Applied Surface Science, 2022, 593, 153274.	3.1	1
7590	Size Attenuated Copper Doped Zirconia Nanoparticles Enhances In Vitro Antimicrobial Properties. Applied Biochemistry and Biotechnology, 2022, 194, 3435-3452.	1.4	6
7591	Three electrodes analysis of a 3ÂV-class all-solid-state lithium-ion battery based on garnet-type solid electrolyte Li6.4La3Zr1.4Ta0.6O12. Journal of Power Sources, 2022, 529, 231278.	4.0	5
7592	Intercalation pseudocapacitive charge storage through enlargement of d-spacing in recrystallized Cr2O3 nanostructures: A supercapbattery. Journal of Electroanalytical Chemistry, 2022, 912, 116234.	1.9	4
7593	Anode materials for lithium-ion batteries: A review. Applied Surface Science Advances, 2022, 9, 100233.	2.9	180
7594	In-situ synthesized carbon-coated Snâ€“SnO2 nanoparticles embedded in carbon nanotubes on Cu foam as anode material for lithium-ion batteries. Journal of Physics and Chemistry of Solids, 2022, 165, 110693.	1.9	3
7595	Achieving in-situ hybridization of NaTi2(PO4)3 and N-doped carbon through a one-pot solid state reaction for high performance sodium-ion batteries. Journal of Solid State Chemistry, 2022, 310, 123036.	1.4	6
7596	Two-step fabrication of lanthanum nickelate and nickel oxide core-shell dandelion-like materials for high-performance supercapacitors. Journal of Colloid and Interface Science, 2022, 617, 430-441.	5.0	22
7597	Interface engineering of S-doped Co2P@Ni2P coreâ€“shell heterostructures for efficient and energy-saving water splitting. Chemical Engineering Journal, 2022, 439, 135743.	6.6	86
7598	Bio-inspired nacre-like fluorographene/Al energetic paper with superior chemical reactivity and mechanical properties. Chemical Engineering Journal, 2022, 441, 136014.	6.6	7
7599	Laser-Assisted synthesis of Bi-Decorated Pt aerogel for efficient methanol oxidation electrocatalysis. Applied Surface Science, 2022, 592, 153219.	3.1	13
7600	Probe the Localized Electrochemical Environment Effects and Electrode Reaction Dynamics for Metal Batteries using In Situ 3D Microscopy. Advanced Energy Materials, 2022, 12, .	10.2	14
7601	Surface effects in cylindrical anode particles: Mechanical versus electrochemical performance determined by charging condition in lithium-ion batteries. Journal of Applied Physics, 2021, 130, .	1.1	3
7602	Lithium Diffusion in Silicon Encapsulated with Graphene. Nanomaterials, 2021, 11, 3397.	1.9	3

#	Article	IF	Citations
7603	Fe-doped NiCo2O4 hollow hierarchical sphere as an efficient electrocatalyst for oxygen evolution reaction. Frontiers of Materials Science, 2021, 15, 577-588.	1.1	5
7604	A delicately designed functional binder enabling in situ construction of <scp>3D</scp> crossâ€linking robust network for highâ€performance Si/graphite composite anode. Journal of Polymer Science, 2022, 60, 1835-1844.	2.0	8
7605	Bimetallic Hexagonal Layered Niâ€“Co Sulfides with High Electrochemical Performance for All-Solid-State Lithium Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 17061-17067.	3.2	8
7606	Recent Progress and Future Prospects on All-Organic Polymer Dielectrics for Energy Storage Capacitors. Chemical Reviews, 2022, 122, 3820-3878.	23.0	240
7607	Synthesis and electrochemical characterization of F- and Cl-doped Li2FeSiO4 cathode material for lithium-ion battery. Journal of Materials Science: Materials in Electronics, 2022, 33, 2310-2321.	1.1	5
7608	Liquid Metal-Modified Nanoporous SiGe Alloy as an Anode for Li-Ion Batteries and Its Self-Healing Performance. ACS Applied Energy Materials, 2021, 4, 14575-14581.	2.5	9
7609	VN Quantum Dots Embedded in N-Doped Carbon for High-Performance Lithium Storage. Energy & Fuels, 2022, 36, 1043-1051.	2.5	9
7610	Thermally encapsulated phenothiazine@MWCNT cathode for aqueous zinc ion battery. Materials Advances, 2022, 3, 4310-4321.	2.6	7
7611	Promotion of Nanotechnology for Properties of Anode Materials in Li-ion Batteries. IOP Conference Series: Earth and Environmental Science, 2022, 1011, 012003.	0.2	1
7612	Electrical image potential and solvation energies for an ion in a pore in a metallic electrode or in a nanotube. Physical Review E, 2022, 105, 044606.	0.8	0
7613	Electrolytes for rechargeable aluminum batteries. Progress in Materials Science, 2022, 128, 100960.	16.0	32
7614	Several Key Factors for Efficient Electrocatalytic Water Splitting: Active Site Coordination Environment, Morphology Changes and Intermediates Identification. Chemistry - A European Journal, 2022, 28, .	1.7	5
7615	Tailoring the Solvation Sheath of Cations by Constructing Electrode Frontâ€Faces for Rechargeable Batteries. Advanced Materials, 2022, 34, e2201339.	11.1	66
7616	Direct ink writing of conductive materials for emerging energy storage systems. Nano Research, 2022, 15, 6091-6111.	5.8	11
7617	Synthesis of Nanocomposite Based on Î±-Fe2O3 Supported on Oxidized Graphene and Its Electrochemical Characteristics. International Journal of Electrochemical Science, 0, , ArticleID:220552.	0.5	0
7618	Rational design and synthesis of one-dimensional platinum-based nanostructures for oxygen-reduction electrocatalysis. Chinese Journal of Catalysis, 2022, 43, 1459-1472.	6.9	95
7619	Controllable construction of hierarchically porous carbon composite of nanosheet network for advanced dual-carbon potassium-ion capacitors. Journal of Colloid and Interface Science, 2022, 621, 169-179.	5.0	9
7629	Transport Processes in Polymer Electrolyte Fuel Cells: Insights from Multiscale Molecular Simulations. , 0, , 321-339.		1

#	Article	IF	Citations
7630	Concise and Efficient Asymmetric Homogeneous Janus Membrane for High-Performance Osmotic Energy Conversion Based on Oppositely Charged Montmorillonite. SSRN Electronic Journal, 0, , .	0.4	0
7631	Introduction to electrochemical energy storage technologies. , 2022, , 3-10.		2
7632	Defects in oxide crystals: nanoscale and interfacial effects. , 2022, , 199-229.		0
7633	Lithium metal anode. , 2022, , 489-497.		0
7634	Evolution of surface and sub-surface morphology and chemical state of exsolved Ni nanoparticles. Faraday Discussions, 2022, 236, 141-156.	1.6	6
7635	Understanding of dynamics of electrical processes in nanostructured Gd-doped ceria. Ferroelectrics, 2022, 588, 164-179.	0.3	1
7636	Preparation, Characterization, and Electrochemical Performance of the Hematite/Oxidized Multi-Walled Carbon Nanotubes Nanocomposite. Molecules, 2022, 27, 2708.	1.7	3
7637	Design and Synthesis of Lead(II)-Based Electrocatalysts for Oxygen Evolution Reaction. Inorganic Chemistry, 2022, 61, 7579-7589.	1.9	2
7638	Comparative Study of Aluminum-Doped Zinc Oxide, Gallium-Doped Zinc Oxide and Indium-Doped Tin Oxide Thin Films Deposited by Radio Frequency Magnetron Sputtering. Nanomaterials, 2022, 12, 1539.	1.9	6
7639	Titanium Monoxide with in Situ Grown Rutile TiO₂ Nanothorns as a Heterostructured Job-Sharing Anode Material for Lithium-Ion Storage. ACS Applied Energy Materials, 2022, 5, 5691-5703.	2.5	5
7640	Strategies towards High Performance Lithiumâ€Sulfur Batteries. Batteries and Supercaps, 2022, 5, .	2.4	30
7641	Structure and electrochemical properties of CNT-supported Li-Ti-O anode material for Li-ion battery. Journal of Industrial and Engineering Chemistry, 2022, , .	2.9	2
7642	In Situ Ionâ€“Exchange Synthesis of Fe₃O₄ Nanosheets with 3D Hierarchically Porous Carbon Frameworks for Highâ€Performance Energy Storage. Energy Technology, 2022, 10, .	1.8	2
7643	Stabilizing single-atomic ruthenium by ferrous ion doped NiFe-LDH towards highly efficient and sustained water oxidation. Chemical Engineering Journal, 2022, 446, 136962.	6.6	25
7644	VSe2/MXene composite with hierarchical three-dimensional structure encapsulated in dopamine as an anode for potassium-ion batteries. Electrochimica Acta, 2022, 421, 140487.	2.6	9
7645	Nerve network-inspired solid polymer electrolytes (NN-SPE) for fast and single-ion lithium conduction. Energy Storage Materials, 2022, 49, 575-582.	9.5	13
7646	Water electrolysis: from textbook knowledge to the latest scientific strategies and industrial developments. Chemical Society Reviews, 2022, 51, 4583-4762.	18.7	453
7647	In Situ Electrochemical Impedance Measurements of Î±-Fe2O3 Nanofibers: Unravelling the Li-Ion Conduction Mechanism in Li-Ion Batteries. Batteries, 2022, 8, 44.	2.1	5

#	Article	IF	Citations
7649	Fundamentals, Mechanism, and Materials for Hybrid Supercapacitors. Advances in Material Research and Technology, 2022, , 71-100.	0.3	1
7650	Multiscale Polymeric Materials for Advanced Lithium Battery Applications. Advanced Materials, 2023, 35, .	11.1	18
7651	Key materials and future perspective for aqueous rechargeable lithium-ion batteries. Materials Reports Energy, 2022, 2, 100096.	1.7	6
7652	Oxygen Defect-Enriched Hierarchical NiCo₂O₄ Hollow Rectangular Nanobars with Enhanced Bifunctional Oxygen Electrocatalysis for Efficient Rechargeable Zincâ€“Air Batteries. Energy & Fuels, 2022, 36, 6542-6551.	2.5	16
7653	Concise and efficient asymmetric homogeneous Janus membrane for high-performance osmotic energy conversion based on oppositely charged montmorillonite. Electrochimica Acta, 2022, 423, 140581.	2.6	14
7654	Metallic nanosponges for energy storage and conversion applications. Journal of Materials Chemistry A, 2022, 10, 14221-14246.	5.2	8
7655	Controllable Synthesis of Silicon/Carbon Microspheres Alternating Carbon and Silicon Shells for High-Energy Lithium-Ion Batteries. SSRN Electronic Journal, 0, , .	0.4	0
7656	Polymer nanocomposites for automotive applications. , 2022, , 267-317.		3
7657	Tuning the Morphology and Size of Nimoo4 Qds Anchored on Reduced Graphene Oxide (Rgo) Nanosheets: The Optimized Hybrid Electrodes for High Energy Density Asymmetric Supercapacitors. SSRN Electronic Journal, 0, , .	0.4	0
7658	High capacitance twinâ€graphene anode material for magnesium ion battery. Energy Storage, 2023, 5, .	2.3	13
7659	CoPt Nanowires with Low Pt Content for the Catalytic Methanol Oxidation Reaction (MOR). ACS Applied Nano Materials, 0, , .	2.4	8
7660	(De)Lithiation and Strain Mechanism in Crystalline Ge Nanoparticles. ACS Nano, 2022, 16, 9819-9829.	7.3	8
7661	Hierarchical nanoarchitectonics of ordered mesoporous carbon from lignin for high-performance supercapacitors. International Journal of Biological Macromolecules, 2022, 213, 610-620.	3.6	19
7662	Quasi-Solid-State Electrolyte Membranes Based on Helical Mesoporous Polysilsesquioxane Nanofibers for High-Performance Lithium Batteries. Journal of the Taiwan Institute of Chemical Engineers, 2022, 135, 104399.	2.7	4
7663	Electrocatalytic activity on single atoms catalysts: Synthesis strategies, characterization, classification, and energy conversion applications. Coordination Chemistry Reviews, 2022, 467, 214600.	9.5	16
7664	Exploring the effects of temperature-driven phase transition on supercapacitive performance of cobalt diselenide. Journal of Power Sources, 2022, 541, 231683.	4.0	6
7665	Phosphorus-based nanomaterials for lithium-ion battery anode. , 2023, , 533-549.		5
7666	In-Situ Growth of Kcu7s4@Comoo4 Core-Shell Structure on Ni Foam for High Performance Supercapacitor Electrode. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
7667	Nanostructured transition metal oxides as high-capacity anode materials for lithium-ion batteries. , 2022, , .		0
7668	Optimized energy storage performance by a depolarization field in BaMn_{0.01}Ti_{0.99}O₃/Na_{0.5}Bi_{0.5}TiO₃2.7 multilayer thin films. Journal of Materials Chemistry C, 2022, 10, 10356-10364.		4
7669	Research about Wire-like Structure Iron Oxide Anode for Lithium-ion Batteries. Journal of Physics: Conference Series, 2022, 2276, 012034.	0.3	0
7670	Co₂V₂O₇@Ti₃C₂T_x MXene Hollow Structures Synergizing the Merits of Conversion and Intercalation for Efficient Lithium Ion Storage. Advanced Sustainable Systems, 2022, 6, .	2.7	8
7671	Optimizing the Electronic Structure of Ordered Ptâ€“Coâ€“Ti Ternary Intermetallic Catalyst to Boost Acidic Oxygen Reduction. ACS Catalysis, 2022, 12, 7571-7578.	5.5	31
7672	Stretched lignin/polyacrylonitrile blended carbon nanofiber as high conductive electrode in electric double layer capacitor. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2022, 13, 025007.	0.7	1
7673	Hollow Nanoporous Multishelled NiCo₂O₄ Spheres for Lithium-Ion Batteries. ACS Applied Nano Materials, 2022, 5, 9893-9900.	2.4	9
7674	In Situ Electron Microscopy Study of the Dynamics of Liquid Flow in Confined Cells. ACS Applied Materials & Interfaces, 0, , .	4.0	1
7675	Advances in polymeric nanocomposites for automotive applications: A review. Polymers for Advanced Technologies, 2022, 33, 3023-3048.	1.6	23
7676	Toward emerging applications using coreâ€“shell nanostructured materials: a review. Journal of Materials Science, 2022, 57, 10912-10942.	1.7	26
7677	Supercapacitor and magnetic properties of Fe doped SnS nanoparticles synthesized through solvothermal method. Journal of Energy Storage, 2022, 52, 105034.	3.9	23
7678	Enhanced electrochemical properties of zinc and manganese co-doped NiO nanostructures for its high-performance supercapacitor applications. Inorganic Chemistry Communication, 2022, 142, 109661.	1.8	20
7679	Effect of aqueous electrolytes on h-WO3 nanorods as an electrode material for supercapacitor application. Chemical Physics Letters, 2022, 802, 139760.	1.2	19
7680	Industrial waste micron-sized silicon use for Si@C microspheres anodes in low-cost lithium-ion batteries. Sustainable Materials and Technologies, 2022, 33, e00454.	1.7	4
7681	Current advances and prospects in NiO-based lithium-ion battery anodes. Sustainable Energy Technologies and Assessments, 2022, 53, 102376.	1.7	9
7682	Tailoring of electrocatalyst interactions at interfacial level to benchmark the oxygen reduction reaction. Coordination Chemistry Reviews, 2022, 469, 214669.	9.5	79
7683	Carbon nitrides as catalyst support in fuel cells: Current scenario and future recommendation. , 2022, , 39-62.		0
7684	Promoted photocarrier separation by dipole engineering in two-dimensional perovskite/C₂N van der Waals heterostructures. Physical Chemistry Chemical Physics, 2022, 24, 17348-17360.	1.3	2

#	Article	IF	Citations
7685	Advances and challenges in metal selenides enabled by nanostructures for electrochemical energy storage applications. Nanoscale, 2022, 14, 10690-10716.	2.8	7
7686	Heteronuclear Bimetallic Organic Molecular Enabling Targeted Synthesis of Efficient Pt1Fe1 Intermetallic Compound for Oxygen Reduction Reaction. Journal of Materials Chemistry A, 0, , .	5.2	2
7687	Synthesis and characterisation of cobalt oxide (Co3O4) using sol-gel auto combustion method with stirring time variations. AIP Conference Proceedings, 2022, , .	0.3	2
7688	Nanostructuring versus microstructuring in battery electrodes. Nature Reviews Materials, 2022, 7, 736-746.	23.3	92
7689	Antibacterial and anticancer activity of trimetal nanoparticles. International Journal of Health Sciences, 0, , 4928-4934.	0.0	0
7690	<scp>Highâ€Energy</scp> Lithiumâ€ion Batteries: Recent Progress and a Promising Future in Applications. Energy and Environmental Materials, 2023, 6, .	7.3	77
7691	Electric field direction-induced gas/water selectively entering nanochannel. Journal of Molecular Liquids, 2022, 363, 119852.	2.3	4
7692	Research progress on carbon materials as negative electrodes in sodiumâ€•and potassiumâ€ion batteries. , 2022, 4, 1182-1213.		55
7693	A review on challenges to remedies of MnO2 based transition-metal oxide, hydroxide, and layered double hydroxide composites for supercapacitor applications. Materials Today Communications, 2022, 32, 104033.	0.9	44
7694	Flower-like Ni3Sn2@Ni3S2 with coreâ€“shell nanostructure as electrode material for supercapacitors with high rate and capacitance. Journal of Colloid and Interface Science, 2022, 626, 951-962.	5.0	7
7695	Electrochemical behavior of heteroatom doped on reduced graphene oxide with RuO2 for HER, OER, and supercapacitor applications. Journal of the Taiwan Institute of Chemical Engineers, 2022, 138, 104471.	2.7	20
7696	Modeling of Two-Phase Polyvinylidene fluoride polymer-based Nanocomposites for Energy Storage. , 2022, , .		0
7697	Recent advances in bio-based electrode materials in supercapacitor applications: Energy storage materials and technologies. Journal of Sustainable Energy Revolution, 2022, 3, 1-13.	0.8	0
7698	Recent advances in bio-based electrode materials in supercapacitor applications: Energy storage materials and technologies. Journal of Sustainable Energy Revolution, 2022, 3, 1-13.	0.8	0
7699	Recent advances in bio-based electrode materials in supercapacitor applications: Energy storage materials and technologies. Journal of Sustainable Energy Revolution, 2022, 3, 1-13.	0.8	0
7700	Carbon nanofibers membrane bridged with graphene nanosheet and hyperbranched polymer for high-performance osmotic energy harvesting. Nano Research, 2023, 16, 1205-1211.	5.8	19
7701	Electrochemical Methods for Water Purification, Ion Separations, and Energy Conversion. Chemical Reviews, 2022, 122, 13547-13635.	23.0	127
7702	Transition Metal Dichalcogenides (TMDs) for Photo/Electro Chemical Energy Based Applications. Energy Technology, 0, , .	1.8	1

#	Article	IF	Citations
7703	Graphene-Based Fiber Supercapacitors. Accounts of Materials Research, 2022, 3, 922-934.	5.9	6
7704	Strengthening the Interfacial Stability of the Silicon-Based Electrode via an Electrolyte Additiveâ”€Allyl Phenyl Sulfone. ACS Applied Materials & Interfaces, 2022, 14, 38281-38290.	4.0	13
7705	Transition Metal Nitrides for Electrocatalytic Application: Progress and Rational Design. Nanomaterials, 2022, 12, 2660.	1.9	10
7706	MOF-Derived AlCuSe₂ Embedded in a Carbon Matrix for an Economical Anode of Lithium-Ion Battery. ACS Omega, 2022, 7, 30440-30446.	1.6	1
7707	Understanding the Origin of the Nonpassivating Behavior of Si-Based Anodes during the Initial Cycles. Journal of Physical Chemistry C, 2022, 126, 14058-14066.	1.5	3
7708	Hydrotalcite-Derived Copper-Based Oxygen Carrier Materials for Efficient Chemical-Looping Combustion of Solid Fuels with CO₂ Capture. Energy & Fuels, 2022, 36, 11062-11076.	2.5	7
7709	Multilevel Hollow Phenolic Resin Nanoreactors with Precise Metal Nanoparticles Spatial Location toward Promising Heterogeneous Hydrogenations. Advanced Materials, 2022, 34, .	11.1	14
7710	Preparation of Spinel Form Co₃O₄and CoO₂Thin Film at Low Temperature by Electrochemical Method as a Thin Film Oxide Layer. ECS Journal of Solid State Science and Technology, 2022, 11, 081014.	0.9	3
7711	Rare Earth Based Nanocomposite Materials for Prominent Performance Supercapacitor: A Review. Applied Mechanics and Materials, 0, 908, 3-18.	0.2	2
7712	Achieving thermally stable nanoparticles in chemically complex alloys via controllable sluggish lattice diffusion. Nature Communications, 2022, 13, .	5.8	38
7713	Material science as a cornerstone driving battery research. Nature Materials, 2022, 21, 979-982.	13.3	16
7714	Sintering Behaviors of Supported Nanoparticles Related to Spatial Location by a Quasi-Four-Dimensional TEM. Nano Letters, 2022, 22, 6523-6529.	4.5	4
7715	Monitoring the Formation of Polymer Nanoparticles with Fluorescent Molecular Rotors. Macromolecules, 2022, 55, 7284-7293.	2.2	7
7716	GaSb nanocomposite: New high-performance anode material for Na- and K-ion batteries. Composites Part B: Engineering, 2022, 243, 110142.	5.9	8
7717	Suppressing the Loss of Polymerâ€Based Dielectrics for High Power Energy Storage. Advanced Materials, 2023, 35, .	11.1	30
7718	Spray pyrolysis: Approaches for nanostructured metal oxide films in energy storage application. Journal of Energy Storage, 2022, 54, 105387.	3.9	11
7719	Synthesis of hollow S/FeS2@carbon nanotubes microspheres and their long-term cycling performances as cathode material for lithium-sulfur batteries. Journal of Electroanalytical Chemistry, 2022, 922, 116724.	1.9	13
7720	Enhancement in the hydrogen storage capability of borophene through yttrium doping: A theoretical study. Journal of Energy Storage, 2022, 55, 105500.	3.9	9

#	Article	IF	Citations
7721	Structural engineering of CoMoO3 nanosheets on cage-like carbon nanoflakes toward enhanced lithium storage performance. Journal of Alloys and Compounds, 2022, 926, 166871.	2.8	2
7722	Green algae as a sustainable source for energy generation and storage technologies. Sustainable Energy Technologies and Assessments, 2022, 53, 102658.	1.7	5
7723	The electrical impedance of carbon xerogel hierarchical electrodes. Electrochimica Acta, 2022, 433, 141203.	2.6	1
7724	Controllable synthesis of silicon/carbon microspheres alternating carbon and silicon shells for high-energy lithium-ion batteries. Electrochimica Acta, 2022, 432, 141111.	2.6	3
7725	Sonohydrothermal-assisted ZnS nanocrystals for improved structural, electronic, and optical properties: Experimental and ab initio methods. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 286, 115983.	1.7	2
7726	Two-dimensional metal-organic frameworks: From synthesis to biomedical, environmental, and energy conversion applications. Coordination Chemistry Reviews, 2022, 473, 214817.	9.5	22
7727	Application of morphology and phase design of dealloying method in supercapacitor. Journal of Alloys and Compounds, 2022, 927, 166974.	2.8	9
7728	Poly (vinylidene fluoride)-based microcellular dielectrics filled with polydopamine coated carbon nanotubes for achieving high permittivity and ultralow dielectric loss. Composites Part A: Applied Science and Manufacturing, 2022, 163, 107222.	3.8	4
7729	In-situ growth of KCu7S4@CoMoO4 core-shell structure on Ni foam for high performance supercapacitor electrode. Journal of Alloys and Compounds, 2022, 927, 166996.	2.8	6
7730	Simple and scalable gelatin-mediated synthesis of a novel iron sulfide/graphitic carbon nanoarchitecture for sustainable sodium-ion storage. Journal of Alloys and Compounds, 2022, 928, 167125.	2.8	4
7731	Synthetic carbon nanomaterials for electrochemical energy conversion. Nanoscale, 2022, 14, 13473-13489.	2.8	6
7732	Activity engineering of cobalt-based oxide materials for high performance supercapacitors: from morphology regulation to structural optimization. Sustainable Energy and Fuels, 2022, 6, 5243-5255.	2.5	4
7733	Recent advances in novel graphene: new horizons in renewable energy storage technologies. Journal of Materials Chemistry C, 2022, 10, 11472-11531.	2.7	18
7734	Printed Electronics Applications: Energy Conversion and Storage Devices. , 2022, , 445-515.		0
7735	Three-dimensional tubular carbon aerogel for supercapacitors. , 2022, 52, 6.		0
7736	Anchoring Highly Distributed Pt Species with a Strong Metal-Support Interaction Over Chemically Oxidized Graphitic Carbon Nitride for Photocatalytic Hydrogen Evolution: The Effect of Reducing Agents on Photocatalytic Properties. SSRN Electronic Journal, 0, , .	0.4	0
7737	Influence of Laser Energies on the Generation of Cobalt Oxide Nanoparticles via Laser Ablation in Liquid. Solid State Phenomena, 0, 336, 69-74.	0.3	2
7738	A Simple Method for Preparation of Highly Conductive Nitrogen/Phosphorus-Doped Carbon Nanofiber Films. Materials, 2022, 15, 5955.	1.3	2

#	Article	IF	Citations
7739	PS-b-P4VP block copolymer micelles as a soft template to grow openly porous nickel films for alkaline hydrogen evolution. Catalysis Today, 2023, 423, 113916.	2.2	0
7740	Confinement Engineering of Electrocatalyst Surfaces and Interfaces. Advanced Functional Materials, 2022, 32, .	7.8	43
7741	Nanoparticles embedded into glass matrices: glass nanocomposites. Frontiers of Materials Science, 2022, 16, .	1.1	4
7742	Titanium Diboride-Based Hierarchical Nanosheets as Anode Material for Li-Ion Batteries. ACS Applied Nano Materials, 2022, 5, 16154-16163.	2.4	9
7743	Effect of the Preparation Conditions on the Catalytic Properties of CoPt for Highly Efficient 4-Nitrophenol Reduction. Materials, 2022, 15, 6250.	1.3	5
7744	Tailoring the Void Space of a Silicon Anode for Highâ€Capacity and Lowâ€Expansion Lithium Storage. Energy Technology, 2022, 10, .	1.8	2
7745	Nanoarchitectonics Intelligence with atomic switch and neuromorphic network system. Applied Physics Express, 2022, 15, 100101.	1.1	33
7746	Interface regulation of Cu2Se via Cu-Se-C bonding for superior lithium-ion batteries. Nano Research, 2023, 16, 2421-2427.	5.8	10
7747	Manifold increase in high-rate properties of LiMn2O4 in a LiMn2O4-poly(pyrrole) composite and the depth of Li+ penetration into the material in fast pseudocapacitive processes. Journal of Solid State Electrochemistry, 0, , .	1.2	0
7748	Metal-Free Homocoupling of Pyrene inside the Pores of Mesoporous Carbons via Electrochemical Oxidation: Application for Electrochemical Capacitors. ACS Omega, 2022, 7, 35245-35255.	1.6	5
7749	Ionic Switches with Positive Temperature Coefficient Enabled by Phase Separation within Hydrogel Electrolytes. ACS Applied Materials & Interfaces, 2022, 14, 47167-47175.	4.0	3
7750	Preparation of N-doped porous carbon nanofibers derived from their phenolic-resin-based analogues for high performance supercapacitor. Journal of Electroanalytical Chemistry, 2022, 925, 116869.	1.9	4
7751	Operando monitoring of the open circuit voltage during electrolyte filling ensures high performance of lithium-ion batteries. Nano Energy, 2022, 104, 107874.	8.2	6
7752	Oxides and Nitrides with Asymmetric Pore Structure from Block Copolymer Coâ€Assembly and Nonâ€Solvent Induced Phase Separation. Macromolecular Chemistry and Physics, 2023, 224, .	1.1	4
7753	A trade-off between ligand and strain effects optimizes the oxygen reduction activity of Pt alloys. Energy and Environmental Science, 2022, 15, 5181-5191.	15.6	21
7754	Cluster-derived TiO₂ nanocrystals with multiple carbon coupling for interfacial pseudo-capacitive lithium storage. Dalton Transactions, 2022, 51, 17858-17868.	1.6	1
7755	Enhanced electrocatalytic activity of Cu-modified, high-index single Pt NPs for formic acid oxidation. Chemical Science, 2022, 13, 12479-12490.	3.7	1
7756	Advances in Supercapacitor Development: Materials, Processes, and Applications. Journal of Electronic Materials, 2023, 52, 96-129.	1.0	26

#	Article	IF	Citations
7757	Effect of Extremely Short-Sized MWCNT as Additive Material in High Surface Area Activated Carbon and Its Enhanced Electrical LIC Performance. Molecules, 2022, 27, 7033.	1.7	0
7758	Thermalâ€Stable Separators: Design Principles and Strategies Towards Safe Lithiumâ€Ion Battery Operations. ChemSusChem, 2022, 15, .	3.6	13
7759	Catalytically Active Advanced Two-Dimensional Ultrathin Nanomaterials for Sustainable Energy. Catalysts, 2022, 12, 1167.	1.6	0
7760	S-doped crosslinked porous Si/SiO2 anode materials with excellent lithium storage performance synthesized via disproportionation. Ceramics International, 2023, 49, 5799-5807.	2.3	5
7761	Synthesis and characterization of graphene quantum dot/SiNP/carbon nanomaterial composites. Applied Nanoscience (Switzerland), 2022, 12, 3219-3228.	1.6	4
7762	Theoretical Prediction of Two-Dimensional Metal Boride Mg₄B₆ as a High-Capacity Electrode Material for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2022, 126, 17474-17481.	1.5	3
7763	NiCo₂O₄ Hexagonal Nanoplates/Cornstalk-Derived Porous Carbon Composites for High-Performance Supercapacitor Electrodes. Energy & Fuels, 2022, 36, 13256-13265.	2.5	4
7764	Synthesis of CNT@CoS/NiCo Layered Double Hydroxides with Hollow Nanocages to Enhance Supercapacitors Performance. Nanomaterials, 2022, 12, 3509.	1.9	3
7765	V₂O₅ as a versatile electrode material for postlithium energy storage systems. , 2023, 2, .		7
7766	Controlled Growth of Platinum Nanoparticles during Electrodeposition using Halide Ion Containing Additives. Journal of the Electrochemical Society, 2022, 169, 112508.	1.3	3
7767	â€œIn Situâ€•Formation of Zn Anode from Bimetallic Cu-Zn Alloy (Brass) for Dendrite-Free Operation of Zn-Air Rechargeable Battery. Batteries, 2022, 8, 212.	2.1	6
7768	Tuning the morphology and size of NiMoO4 nanoparticles anchored on reduced graphene oxide (rGO) nanosheets: The optimized hybrid electrodes for high energy density asymmetric supercapacitors. Journal of Electroanalytical Chemistry, 2023, 928, 116944.	1.9	7
7769	Researching proton conduction behavior at subzero temperature of lamellar anhydrous proton exchange membranes. Materials Chemistry and Physics, 2023, 294, 126969.	2.0	2
7770	Optimization of graphite/silicon-based composite electrodes for lithium ion batteries regarding the interdependencies of active and inactive materials. Journal of Power Sources, 2022, 552, 232252.	4.0	5
7771	Covalent alteration of Ti3C2Tx MXene layers by selenium decoration for enhanced electrochemical capacitance. Journal of Energy Storage, 2022, 56, 105918.	3.9	8
7772	A comprehensive review of pre-lithiation/sodiation additives for Li-ion and Na-ion batteries. Journal of Energy Chemistry, 2023, 76, 479-494.	7.1	23
7773	Spectroscopic study on alternative plasmonic TiN-NRs film prepared by R-HiPIMS with GLAD technique. Radiation Physics and Chemistry, 2023, 202, 110589.	1.4	3
7774	Co3C/Mxene composites wrapped in N-rich carbon as stable-performance anodes for potassium/sodium-ion batteries. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 656, 130332.	2.3	10

#	Article	IF	Citations
7775	Anchoring highly distributed Pt species over oxidized graphitic carbon nitride for photocatalytic hydrogen evolution: The effect of reducing agents. Applied Surface Science, 2023, 609, 155305.	3.1	6
7776	Green and Sustainable Battery Materials. , 2022, , 2337-2365.		0
7777	On the performance of a hierarchically porous Ag₂Sâ€“Cu_xS electrode in Li-ion batteries. Dalton Transactions, 0, , .	1.6	0
7779	Tailoring the morphology and electrochemical properties of Co-ZIF-L derived CoNi layered double hydroxides via Ni2+ etching towards high-performance supercapacitors. Journal of Colloid and Interface Science, 2023, 631, 222-230.	5.0	4
7780	Inverse spinel cobalt manganese oxide nanosphere materials as an electrode for high-performance asymmetric supercapacitor. Journal of Alloys and Compounds, 2023, 933, 167645.	2.8	6
7781	Simple one-step synthesis of urchin-like Feâ€“Mn nanostructures via statistical design and their effects on the morphology. Scientific Reports, 2022, 12, .	1.6	0
7782	Synthesis and Characterization of Gold-Shell Magnetic Nanowires for Theranostic Applications. Coatings, 2022, 12, 1755.	1.2	2
7783	Retarding the Shuttling Ions in the Electrochromic TiO₂ with Extensive Crystallographic Imperfections. Angewandte Chemie - International Edition, 2023, 62, .	7.2	4
7784	Bottom-up hydrothermal carbonization for the precise engineering of carbon materials. Progress in Materials Science, 2023, 132, 101048.	16.0	19
7785	Defect-Engineered Bi₂₄O₃₁Cl₁₀ Nanosheets for Photocatalytic CO₂ Reduction to CO. ACS Applied Nano Materials, 2022, 5, 17226-17233.	2.4	13
7786	Recent progress of nanotechnology in the research framework of all-solid-state batteries. Nano Energy, 2023, 105, 107994.	8.2	8
7787	Retarding the Shuttling Ions in the Electrochromic TiO₂ with Extensive Crystallographic Imperfections. Angewandte Chemie, 2023, 135, .	1.6	0
7788	A simple synthesis of VSe2/B4C@HCG composite as high-performance anodes for sodium-ion batteries. Journal of Alloys and Compounds, 2023, 935, 168111.	2.8	5
7789	Amorphous iron fluorosulfate as a high-capacity cathode utilizing combined intercalation and conversion reactions with unexpectedly high reversibility. Nature Energy, 2023, 8, 30-39.	19.8	18
7790	A Review on the Application of Cobalt-Based Nanomaterials in Supercapacitors. Nanomaterials, 2022, 12, 4065.	1.9	10
7792	Emerging Materials for Energy Applications. , 2022, , 1-19.		0
7793	Dielectric behaviour of plasma hydrogenated TiO₂/cyanoethylated cellulose nanocomposites. Nanoscale, 2023, 15, 1824-1834.	2.8	3
7794	MoSe2 and NiCo2O4/NiO Based HybridNanostructure as Novel Electrocatalyst for High Performance Rechargeable Zinc-Air Battery. Electrochimica Acta, 2023, 439, 141689.	2.6	3

#	Article	IF	Citations
7795	Electrospun Fe1-xS@nitrogen-doped carbon fibers as anode material for sodium-ion batteries. Journal of Electroanalytical Chemistry, 2023, 929, 117095.	1.9	7
7796	Formation of effective carbon composite structure for improving electrochemical performances of rhombohedral Li3V2(PO4)3 as both cathode and anode materials for lithium ion batteries. Journal of Electroanalytical Chemistry, 2023, 928, 117076.	1.9	0
7797	Microalgae-derived single-atom oxygen reduction catalysts for zinc-air batteries. Carbon, 2023, 203, 827-834.	5.4	4
7798	Green synthesis of flower shape ZnO-GO nanocomposite through optimized discharge parameter and its efficiency in energy storage device. Environmental Research, 2023, 218, 115021.	3.7	4
7799	Preserved crystal phase and morphology: Improving the magnetic and electrochemical performance of sulfur doped tin oxide nanoparticles synthesized via the hydrothermal method. Applied Surface Science Advances, 2023, 13, 100360.	2.9	4
7800	Glassâ€“ceramics: A Potential Material for Energy Storage and Photonic Applications. Advanced Structured Materials, 2022, , 265-304.	0.3	1
7801	Artificial Intelligence Aided Design for Film Capacitors. , 2022, , .		1
7803	Atomic Layer Deposition for Electrochemical Energy: from Design to Industrialization. Electrochemical Energy Reviews, 2022, 5, .	13.1	21
7804	Nanomaterials for supercapacitors as energy storage application: Focus on its characteristics and limitations. Materials Today: Proceedings, 2022, , .	0.9	1
7805	Recent developments and future perspectives on energy storage and conversion applications of nickel molybdates. Energy Storage, 2023, 5, .	2.3	1
7806	Halide double perovskite-based efficient mechanical energy harvester and storage devices for self-charging power unit. Nano Energy, 2023, 107, 108148.	8.2	4
7807	Advanced Nb2O5 Anode towards Fast Pseudocapacitive Sodium Storage. Coatings, 2022, 12, 1873.	1.2	1
7808	Electrodeposition of Silver Nanoparticles on Indium-Doped Tin Oxide Using Hydrogel Electrolyte for Hydrogen Peroxide Sensing. Nanomaterials, 2023, 13, 48.	1.9	4
7809	NASICON-Type Lithium-Ion Conductor Materials with High Proton Conductivity Enabled by Lithium Vacancies. Energy & Fuels, 2022, 36, 15154-15164.	2.5	4
7810	Synthesis of Highly Dispersible Functionalized Carbon Nanotubes as Conductive Material through a Facile Drying Process for Highâ€Power Lithiumâ€ion Batteries. ChemSusChem, 2023, 16, .	3.6	2
7811	Activation energy study on nanostructured niobium substituted Mg₂Ni intermetallic alloy for hydrogen storage application. Physica Scripta, 2023, 98, 015706.	1.2	4
7812	Secondary Batteries for Mobile Applications: From Lead to Lithium [Historical]. IEEE Industrial Electronics Magazine, 2022, 16, 60-68.	2.3	1
7813	Effect of the Preparation Conditions on the Magnetic Coercivity of CoPt Alloy Nanowires. Magnetochemistry, 2022, 8, 176.	1.0	0

#	Article	IF	Citations
7814	Application and Progress of Confinement Synthesis Strategy in Electrochemical Energy Storage. Transactions of Tianjin University, 2023, 29, 151-187.	3.3	4
7815	Hard Carbon Derived from A New Type Resorcinol/2-Thenaldehyde Resin as High-Performance Anode Materials for Lithium-Ion Batteries. International Journal of Electrochemical Science, 2022, 17, 221274.	0.5	2
7816	Recycled Additive Manufacturing Feedstocks for Fabricating High Voltage, Lowâ€Cost Aqueous Supercapacitors. Advanced Sustainable Systems, 2023, 7, .	2.7	19
7817	Organic ligand-assisted synthesis of Ir0.3Cr0.7O2 solid solution oxides for efficient oxygen evolution in acidic media. International Journal of Hydrogen Energy, 2023, 48, 5402-5412.	3.8	3
7818	Battery anode design: From 1D nanostructure to 3D nanoarchitecture â€“ Enabling next-generation energy storage technology. Microelectronic Engineering, 2023, 270, 111927.	1.1	1
7819	Nanostructuring Strategies for Siliconâ€based Anodes in Lithiumâ€ion Batteries: Tuning Areal Silicon Loading, SEI Formation/Irreversible Capacity Loss, Rate Capability Retention and Electrode Durability. Batteries and Supercaps, 2023, 6, .	2.4	2
7820	Green Preparation of Fe₂O₃ Doped Gum Acacia Derived Porous Carbon/Graphene Ternary Nanocomposite as a Supercapacitor Electrode. , 0, , .		0
7821	Ambientâ€Condition Strategy for Production of Hollow <scp>Ga₂O₃</scp>@<scp>rGO</scp> Crystalline Nanostructures Toward Efficient Lithium Storage. Energy and Environmental Materials, 0, , .	7.3	2
7822	Boosting energy storage performance of Ti3C2Tx composite supercapacitors via decorated chalcogen (S, Se, Te) and new phase-formed binding sites. Materials Today Sustainability, 2023, 21, 100322.	1.9	4
7823	Sulphur vacancy induced Co₃S₄@CoMo₂S₄ nanocomposites as a functional electrode for high performance supercapacitors. Journal of Materials Chemistry A, 2023, 11, 3640-3652.	5.2	12
7824	Stabilizing a Liâ€“Mnâ€“O Cathode by Blocking Lattice O Migration through a Nanoscale Phase Complex. ACS Energy Letters, 2023, 8, 901-908.	8.8	9
7825	Explosion Strategy Engineering Oxygen-Functionalized Groups and Enlarged Interlayer Spacing of the Carbon Anode for Enhanced Lithium Storage. ACS Applied Materials & Interfaces, 2023, 15, 4371-4384.	4.0	2
7826	MXene-based separators for redox-enhanced electric capacitors with a suppressed shuttle effect and self-discharge: the effect of MXene ageing. New Journal of Chemistry, 2023, 47, 3516-3523.	1.4	1
7827	Effect of Binder Content on Silicon Microparticle Anodes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2023, 170, 010533.	1.3	4
7828	Amorphous alumina supercapacitors with voltage-charging performance. Europhysics Letters, 2023, 141, 36003.	0.7	2
7829	A novel scalable thinning route to enhance long-term stability of layered cathode materials for Li-ion batteries. Journal of Materials Science, 2023, 58, 864-879.	1.7	2
7830	Metal Oxide Wrapped by Reduced Graphene Oxide Nanocomposites as Anode Materials for Lithium-Ion Batteries. Nanomaterials, 2023, 13, 296.	1.9	9
7831	Controllable synthetic strategy of the coordinatively unsaturated metal sites on Ni-BTC for highly efficient oxygen evolution. Catalysis Today, 2023, 423, 114000.	2.2	1

#	Article	IF	Citations
7832	Detecting voltage shifts and charge storage anomalies by iron nanoparticles in three-electrode cells based on converted iron oxide and lithium iron phosphate. Electrochimica Acta, 2023, 440, 141747.	2.6	2
7833	Rational design of MXene-MoS2 heterostructure with rapid ion transport rate as an advanced anode for sodium-ion batteries. Chemical Engineering Journal, 2023, 457, 141363.	6.6	38
7834	Numerical investigations on extraction effect for steam condensation in the presence of air. Progress in Nuclear Energy, 2023, 157, 104573.	1.3	3
7835	Impact of Post-Synthesis heat treatment avoidance on cobalt carbonate hydroxide as a Battery-Type electrode material. Applied Surface Science, 2023, 615, 156352.	3.1	1
7836	Engineering Electronic Spin State of a CoNi Alloy for an Efficient Oxygen Reduction Reaction. ACS Applied Energy Materials, 2023, 6, 1888-1896.	2.5	9
7837	General introduction about electrochemistry and supercapacitors. , 2023, , 3-16.		0
7838	Electrical property enhancement and lattice thermal conductivity reduction of n-type Mg3Sb1.5Bi0.5-based Zintl compound by In&Se co-doping. Journal of Materiomics, 2023, 9, 431-437.	2.8	3
7839	Ionic liquids: environmentally sustainable materials for energy conversion and storage applications. Environmental Science and Pollution Research, 2024, 31, 10296-10316.	2.7	6
7840	Silicon-based lithium-ion battery anodes and their application in solid-state batteries. , 2023, , 129-169.		0
7842	Synthesis of TiO2 Nanobelt Bundles Decorated with TiO2 Nanoparticles and Aggregates and Their Use as Anode Materials for Lithium-Ion Batteries. Micromachines, 2023, 14, 243.	1.4	5
7843	Sc2CX (X=N2, ON, O2) MXenes as a promising anode material: A first-principles study. Journal of Applied Physics, 2023, 133, .	1.1	5
7844	Hydrogen Bond-Enabled High-ICE Anode for Lithium-Ion Battery Using Carbonized Citric Acid-Coated Silicon Flake in PAA Binder. ACS Omega, 2023, 8, 8001-8010.	1.6	3
7845	Structure analyses and ferroelectric behaviour of barium titanate-doped glassâ€“ceramic nanocrystals for energy storage applications. Applied Physics A: Materials Science and Processing, 2023, 129, .	1.1	2
7846	The Batteriesâ€™ New Clothes: Li and H Dynamics in Poorly Conducting Li₂OHCl Directly Probed by Nuclear Spin Relaxation. Journal of Physical Chemistry C, 2023, 127, 7433-7444.	1.5	1
7847	Pencil graphiteâ€“turned graphene oxide for supercapacitor electrodes. Emergent Materials, 0, , .	3.2	0
7848	Self-assembled colloidal gold nanoparticles as substrates for plasmon enhanced fluorescence. European Journal of Materials, 2023, 3, .	0.8	2
7849	Advance in 3D self-supported amorphous nanomaterials for energy storage and conversion. Nano Research, 2023, 16, 10597-10616.	5.8	2
7850	Transfer learning aided high-throughput computational design of oxygen evolution reaction catalysts in acid conditions. Journal of Energy Chemistry, 2023, 80, 744-757.	7.1	7

#	Article	IF	Citations
7851	Heterophase interfacial hybrid//graphene nanoscrolls based high performance lithium-ion hybrid supercapacitor. Electrochimica Acta, 2023, 450, 142266.	2.6	5
7852	Performance enhancement of Î±-MnO2 through tunnel-size and morphology adjustment as pseudocapacitive electrode. Electrochimica Acta, 2023, 449, 142172.	2.6	6
7853	High throughput screening of single atomic catalysts with optimized local structures for the electrochemical oxygen reduction by machine learning. Journal of Energy Chemistry, 2023, 81, 349-357.	7.1	9
7854	Ion transport phenomena in electrode materials. Chemical Physics Reviews, 2023, 4, 021302.	2.6	0
7855	New photoelectrodes based on bismuth vanadate-V2O5@TiNT for photo-rechargeable supercapacitors. Journal of Energy Storage, 2023, 62, 106866.	3.9	7
7856	Nanoarchitectonics of tin telluride: A novel pseudocapacitive material for energy storage application. Materials Chemistry and Physics, 2023, 301, 127698.	2.0	3
7857	Metallic 1H-BeP2 monolayer as a potential anode material for Li-ion/Na-ion batteries: A first principles study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 662, 131037.	2.3	3
7858	ANODE MATERIALS IN LITHIUM-ION BATTERIES BASED ON TIN. , 0, , .		0
7859	Study of Tribological Properties of Bulk Nanostructured Aluminum and Copper Samples Applicable in Automotive Bearing Application. Journal of Materials Engineering and Performance, 2023, 32, 8807-8817.	1.2	1
7860	N/S co-doped carbon nanosheets derived from sugarcane processing by-products for flexible solid-state supercapacitors. Journal of Electroanalytical Chemistry, 2023, 932, 117217.	1.9	6
7861	Inlaid layered double hydroxides and MXene composite electrodes with high rate performance as asymmetric supercapacitors. Journal of Materials Science: Materials in Electronics, 2023, 34, .	1.1	1
7862	Imaging solidâ€“electrolyte interphase dynamics using operando reflection interference microscopy. Nature Nanotechnology, 2023, 18, 780-789.	15.6	15
7863	Homogeneous Metastable Hexagonal Phase Iridium Enhances Hydrogen Evolution Catalysis. Advanced Science, 2023, 10, .	5.6	8
7864	In situ synthesis of Cu(<scp>ii</scp>) dicarboxylate metal organic frameworks (MOFs) and their application as battery materials. Physical Chemistry Chemical Physics, 2023, 25, 12684-12693.	1.3	3
7865	Combustion-Synthesized KNiPO₄: A Non-toxic, Robust, Intercalating Battery-Type Pseudocapacitive Electrode for Hybrid Supercapacitors as a Large-Scale Energy Storage Solution. Energy & Fuels, 2023, 37, 4094-4105.	2.5	4
7866	Prospect of Lithium-ion Battery in Designing Environment Friendly Hybrid Electric Vehicles. IOP Conference Series: Earth and Environmental Science, 2023, 1110, 012062.	0.2	0
7867	Recent developments, challenges and future prospects of magnetic field effects in supercapacitors. Journal of Materials Chemistry A, 2023, 11, 5495-5519.	5.2	18
7868	Coupling of cerium oxide cyanamide with Feâ€“Nâ€“C for enhanced oxygen reduction reaction. New Journal of Chemistry, 2023, 47, 6058-6065.	1.4	1

#	Article	IF	Citations
7870	Fast-charging cathode materials for lithium & sodium ion batteries. Materials Today, 2023, 63, 360-379.	8.3	44
7871	Mesoporous NiWO₄@rGO nanoparticles as anode material for lithium-ion battery. Materials Research Innovations, 2023, 27, 441-448.	1.0	0
7872	Impact of External Electronic Perturbations on Single-Walled Carbon Nanotube Electronic Structure: Scanning Tunneling Spectroscopy and Density Functional Theory. Journal of Physical Chemistry C, 2023, 127, 4651-4659.	1.5	2
7873	Study of bismuth oxide/polystyrene composites as flexible electrodes for super capacitors. Materials Today: Proceedings, 2023, , .	0.9	0
7874	Impact of Chemical and Physical Properties of Organic Solvents on the Gas and Hydrogen Formation during Laser Synthesis of Gold Nanoparticles. ChemPhysChem, 2023, 24, .	1.0	6
7875	Atomic Lattice Resolved Electron Tomography of a 3D Selfâ€Assembled Mesocrystal. Advanced Functional Materials, 2023, 33, .	7.8	1
7876	Micro/nanoâ€wrinkled elastomeric electrodes enabling high energy storage performance and various form factors. , 2023, 5, .		1
7877	Enhanced charge storage capacity and high rate capabilities of Ni₂Co-layered double hydroxides/expanded-graphite composites as anodes for Li-ion batteries. Journal of Materials Chemistry A, 2023, 11, 7142-7151.	5.2	5
7878	Development of Cellulose Nanofiberâ€"SnO2 Supported Nanocomposite as Substrate Materials for High-Performance Lithium-Ion Batteries. Nanomaterials, 2023, 13, 1080.	1.9	2
7879	Nonâ€van der Waals 2D Materials for Electrochemical Energy Storage. Advanced Functional Materials, 2023, 33, .	7.8	9
7880	New Advances into Nanostructured Oxides. Inorganics, 2023, 11, 130.	1.2	0
7881	Green Catalytic Conversion of Some Benzylic Alcohols to Acids by NiO2 Nanoparticles (NPNPs) in Water. Catalysts, 2023, 13, 645.	1.6	2
7882	Metal-Free On-Chip Batteryâ€"Supercapacitor Hybrid System Based on Rationally Designed Highly Conducting Laser-Irradiated Graphene-Based Electrodes. ACS Sustainable Chemistry and Engineering, 2023, 11, 5451-5461.	3.2	5
7883	Two-Dimensional Mesoporous Materials for Energy Storage and Conversion: Current Status, Chemical Synthesis and Challenging Perspectives. Electrochemical Energy Reviews, 2023, 6, .	13.1	15
7884	Carbon-Coated MnO Quantum Dot-Decorated Three-Dimensional Graphene Aerogel Composite for High-Performance Lithium-Ion Batteries. Energy & Fuels, 2023, 37, 6240-6247.	2.5	4
7885	In Situ Construction of Zn₂Mo₃O₈/ZnO Hierarchical Nanosheets on Graphene as Advanced Anode Materials for Lithium-Ion Batteries. Inorganic Chemistry, 2023, 62, 6032-6046.	1.9	5
7886	Recent Progress on Nonâ€Carbonâ€Supported Singleâ€Atom Catalysts for Electrochemical Conversion of Green Energy. Small Science, 2023, 3, .	5.8	3
7887	One-Step Solid-State Synthesis of Ni-Rich Cathode Materials for Lithium-Ion Batteries. Materials, 2023, 16, 3079.	1.3	1

#	Article	IF	Citations
7888	Progress in photocapacitors: A review. Functional Materials Letters, 2023, 16, .	0.7	1
7889	Electrolyte-philicity of electrode materials. Chemical Communications, 2023, 59, 6969-6986.	2.2	19
7890	Synthesis and electrochemical oxygen reduction reaction activities of palladium-based intermetallic nano-electrocatalysts. Materials Today: Proceedings, 2023, , .	0.9	0
7891	Mechanical behaviours and modelling of nanostructure anode in Lithium-Ion battery (LIB) â€“ enabling low-cost 3D nanostructures in future LIB for sustainable energy storage. AIP Conference Proceedings, 2023, , .	0.3	0
7892	Multi-heteroelement-doped porous carbon as an efficient catalyst for alkaline oxygen reduction reaction. Diamond and Related Materials, 2023, 136, 109957.	1.8	2
7893	Effect of topological structure on the supercapacitive performance of redox-active triblock copolymers electrode-based asymmetric supercapacitors. Journal of Organometallic Chemistry, 2023, 993, 122726.	0.8	0
7894	Electrolyteâ€Wettability Issues and Challenges of Electrode Materials in Electrochemical Energy Storage, Energy Conversion, and Beyond. Advanced Science, 2023, 10, .	5.6	16
7934	Graphene Nanotechnology for Renewable Energy Systems. Engineering Materials, 2023, , 167-193.	0.3	0
7940	Synthesis of long VSB-5 microrod as electrochemical material via hydrothermal method. AIP Conference Proceedings, 2023, , .	0.3	0
7981	Removal and recovery of Hg(II) from industrial wastewater. , 2023, , 581-599.		0
7983	Heterostructures of MXenes and transition metal oxides for supercapacitors: an overview. Nanoscale, 2023, 15, 13546-13560.	2.8	3
7989	é«˜æ•ˆåšå²ç¢³åŸºå‚¬åŒ–å‰‚çš„ç©¶è¿›å±•åŠå…¶åœ¨ç©ºæ°”ç”µæ±ä¸çš„. Science China Materials, 2023, 66, 3381-3400.		
7994	Functionalized Nanobiomaterials in Electroanalysis and Diagnosis of Biomolecules. , 2023, , 457-482.		0
7997	FNM-Based Supercapacitor in Futuristic Application. Materials Horizons, 2024, , 679-705.	0.3	0
8003	Metalâ€“organic framework and graphene composites: advanced materials for electrochemical supercapacitor applications. Materials Advances, 2023, 4, 4679-4706.	2.6	1
8035	Recent progress on 2D material-based nanoarchitectures for small molecule electro-oxidation. Materials Chemistry Frontiers, 0, , .	3.2	0
8048	Basic Information of Electrochemical Energy Storage. , 2023, , 17-48.		0
8053	Modular preparation of functional bimetallic spinels from metalâ€“organic frameworks: a deep exploration from macro and micro perspectives. Journal of Materials Chemistry A, 0, , .	5.2	0

#	Article	IF	Citations
8083	Sampling, characterization, classification, and identification of nano-waste materials. , 2024, , 41-69.		0
8085	Polymer-based self-healable materials for energy storage. , 2024, , 295-309.		0
8089	Computational evaluation of advanced electrode materials. , 2024, , 615-677.		0
8095	Nanomaterials for supercapacitors. , 2024, , 219-249.		0
8097	Metal organic frameworks-based cathode materials for advanced Li-S batteries: A comprehensive review. Nano Research, 2024, 17, 2592-2618.	5.8	0
8105	Recent advances of nanomaterials for rechargeable lithium-ion batteries: opportunities and challenges. , 2024, , 3-44.		0