Hua Kun Liu

List of Publications by Year
in descending order

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1,008	69,668	369 135	1900 208
papers	citations	h-index	g-index

1027	1027	1027	40486
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhancement of the critical current density and flux pinning of MgB2 superconductor by nanoparticle SiC doping. Applied Physics Letters, 2002, 81, 3419-3421.	3.3	770
2	Preparation and Electrochemical Properties of SnO2 Nanowires for Application in Lithium-Ion Batteries. Angewandte Chemie - International Edition, 2007, 46, 750-753.	13.8	756
3	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.	13.8	745
4	Highly Reversible Lithium Storage in Spheroidal Carbon-Coated Silicon Nanocomposites as Anodes for Lithium-Ion Batteries. Angewandte Chemie - International Edition, 2006, 45, 6896-6899.	13.8	656
5	Boosted Charge Transfer in SnS/SnO₂ Heterostructures: Toward High Rate Capability for Sodiumâ€ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 3408-3413.	13.8	621
6	Enhanced Sodium-Ion Battery Performance by Structural Phase Transition from Two-Dimensional Hexagonal-SnS₂ to Orthorhombic-SnS. ACS Nano, 2014, 8, 8323-8333.	14.6	592
7	Metalâ€Free Carbon Materials for CO₂ Electrochemical Reduction. Advanced Materials, 2017, 29, 1701784.	21.0	558
8	Superior stability and high capacity of restacked molybdenum disulfide as anode material for lithium ion batteries. Chemical Communications, 2010, 46, 1106-1108.	4.1	527
9	In situ chemical synthesis of SnO2â€“graphene nanocomposite as anode materials for lithium-ion batteries. Electrochemistry Communications, 2009, 11, 1849-1852.	4.7	520
10	Sodiumâ€ion Batteries: From Academic Research to Practical Commercialization. Advanced Energy Materials, 2018, 8, 1701428.	19.5	494
11	Reduced graphene oxide with superior cycling stability and rate capability for sodium storage. Carbon, 2013, 57, 202-208.	10.3	491
12	Electrodeposition of MnO2 nanowires on carbon nanotube paper as free-standing, flexible electrode for supercapacitors. Electrochemistry Communications, 2008, 10, 1724-1727.	4.7	419
13	Comparison of GO, GO/MWCNTs composite and MWCNTs as potential electrode materials for supercapacitors. Energy and Environmental Science, 2011, 4, 1855.	30.8	414
14	Transition metal based battery-type electrodes in hybrid supercapacitors: A review. Energy Storage Materials, 2020, 28, 122-145.	18.0	413
15	Enhanced reversible lithium storage in a nanosize silicon/graphene composite. Electrochemistry Communications, 2010, 12, 303-306.	4.7	402
16	Grapheneâ€Encapsulated Fe₃O₄ Nanoparticles with 3D Laminated Structure as Superior Anode in Lithium Ion Batteries. Chemistry - A European Journal, 2011, 17, 661-667.	3.3	395
17	CoS Quantum Dot Nanoclusters for Highâ€Energy Potassiumâ€ion Batteries. Advanced Functional Materials, 2017, 27, 1702634.	14.9	391
18	Simply Mixed Commercial Red Phosphorus and Carbon Nanotube Composite with Exceptionally Reversible Sodium-Ion Storage. Nano Letters, 2013, 13, 5480-5484.	9.1	390

#	Article	IF	Citations
19	Recent Progress in Graphite Intercalation Compounds for Rechargeable Metal (Li, Na, K, Al)â€Ion Batteries. Advanced Science, 2017, 4, 1700146.	11.2	390
20	Uniform yolk-shell iron sulfideâ€“carbon nanospheres for superior sodiumâ€“iron sulfide batteries. Nature Communications, 2015, 6, 8689.	12.8	374
21	Rapid Synthesis of Li₄Ti₅O₁₂ Microspheres as Anode Materials and Its Binder Effect for Lithium-Ion Battery. Journal of Physical Chemistry C, 2011, 115, 16220-16227.	3.1	368
22	Sulfur-graphene composite for rechargeable lithium batteries. Journal of Power Sources, 2011, 196, 7030-7034.	7.8	362
23	Sulfurâ€“mesoporous carbon composites in conjunction with a novel ionic liquid electrolyte for lithium rechargeable batteries. Carbon, 2008, 46, 229-235.	10.3	361
24	Small things make a big difference: binder effects on the performance of Li and Na batteries. Physical Chemistry Chemical Physics, 2014, 16, 20347-20359.	2.8	347
25	Atomic Interface Engineering and Electricâ€Field Effect in Ultrathin Bi₂MoO₆ Nanosheets for Superior Lithium Ion Storage. Advanced Materials, 2017, 29, 1700396.	21.0	343
26	Amorphous TiO₂ Shells: A Vital Elastic Buffering Layer on Silicon Nanoparticles for Highâ€Performance and Safe Lithium Storage. Advanced Materials, 2017, 29, 1700523.	21.0	342
27	Lithiumâ€Ion Conducting Electrolyte Salts for Lithium Batteries. Chemistry - A European Journal, 2011, 17, 14326-14346.	3.3	341
28	Synthesis of molybdenum disulfide (MoS2) for lithium ion battery applications. Materials Research Bulletin, 2009, 44, 1811-1815.	5.2	339
29	Regulation methods for the Zn/electrolyte interphase and the effectiveness evaluation in aqueous Zn-ion batteries. Energy and Environmental Science, 2021, 14, 5669-5689.	30.8	314
30	Synthesis of NiO nanotubes for use as negative electrodes in lithium ion batteries. Journal of Power Sources, 2006, 159, 254-257.	7.8	312
31	Active-Site-Enriched Iron-Doped Nickel/Cobalt Hydroxide Nanosheets for Enhanced Oxygen Evolution Reaction. ACS Catalysis, 2018, 8, 5382-5390.	11.2	311
32	The Effect of Morphological Modification on the Electrochemical Properties of SnO₂ Nanomaterials. Advanced Functional Materials, 2008, 18, 455-461.	14.9	306
33	Flexible free-standing carbon nanotube films for model lithium-ion batteries. Carbon, 2009, 47, 2976-2983.	10.3	306
34	Atomic cobalt as an efficient electrocatalyst in sulfur cathodes for superior room-temperature sodium-sulfur batteries. Nature Communications, 2018, 9, 4082.	12.8	305
35	Hollow Structured Li₃VO₄ Wrapped with Graphene Nanosheets in Situ Prepared by a One-Pot Template-Free Method as an Anode for Lithium-Ion Batteries. Nano Letters, 2013, 13, 4715-4720.	9.1	303
36	Hydrogen Storage Materials for Mobile and Stationary Applications: Current State of the Art. ChemSusChem, 2015, 8, 2789-2825.	6.8	302

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37	Sn_{4+x}P₃ @ Amorphous Snâ€P Composites as Anodes for Sodiumâ€Ion Batteries with Low Cost, High Capacity, Long Life, and Superior Rate Capability. Advanced Materials, 2014, 26, 4037-4042.	21.0	298
38	Monodisperse Magnesium Hydride Nanoparticles Uniformly Selfâ€Assembled on Graphene. Advanced Materials, 2015, 27, 5981-5988.	21.0	298
39	Ultrafine SnO₂nanoparticle loading onto reduced graphene oxide as anodes for sodium-ion batteries with superior rate and cycling performances. Journal of Materials Chemistry A, 2014, 2, 529-534.	10.3	297
40	Enhancement of the capacitance in TiO2 nanotubes through controlled introduction of oxygen vacancies. Journal of Materials Chemistry, 2011, 21, 5128.	6.7	288
41	Reversible structural evolution of sodium-rich rhombohedral Prussian blue for sodium-ion batteries. Nature Communications, 2020, 11, 980.	12.8	283
42	Development of MoS₂â€“CNT Composite Thin Film from Layered MoS₂ for Lithium Batteries. Advanced Energy Materials, 2013, 3, 798-805.	19.5	282
43	Amorphous Carbon Coated High Grain Boundary Density Dual Phase Li₄Ti₅O₁₂â€TiO₂: A Nanocomposite Anode Material for Liâ€Ion Batteries. Advanced Energy Materials, 2011, 1, 212-220.	19.5	281
44	Achieving High-Performance Room-Temperature Sodiumâ€“Sulfur Batteries With S@Interconnected Mesoporous Carbon Hollow Nanospheres. Journal of the American Chemical Society, 2016, 138, 16576-16579.	13.7	280
45	Carbon-coated SnO2/graphene nanosheets as highly reversible anode materials for lithium ion batteries. Carbon, 2012, 50, 1897-1903.	10.3	276
46	Roomâ€Temperature Sodiumâ€Sulfur Batteries: A Comprehensive Review on Research Progress and Cell Chemistry. Advanced Energy Materials, 2017, 7, 1602829.	19.5	270
47	Sulphur-polypyrrole composite positive electrode materials for rechargeable lithium batteries. Electrochimica Acta, 2006, 51, 4634-4638.	5.2	265
48	Single wall carbon nanotube paper as anode for lithium-ion battery. Electrochimica Acta, 2005, 51, 23-28.	5.2	263
49	Catalytic Role of Ge in Highly Reversible GeO₂/Ge/C Nanocomposite Anode Material for Lithium Batteries. Nano Letters, 2013, 13, 1230-1236.	9.1	261
50	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.	21.0	260
51	Activated carbon from the graphite with increased rate capability for the potassium ion battery. Carbon, 2017, 123, 54-61.	10.3	257
52	A study on the chargeâ€“discharge mechanism of Co3O4 as an anode for the Li ion secondary battery. Electrochimica Acta, 2005, 50, 3667-3673.	5.2	255
53	Understanding the Reaction Chemistry during Charging in Aprotic Lithiumâ€“Oxygen Batteries: Existing Problems and Solutions. Advanced Materials, 2019, 31, e1804587.	21.0	254
54	Prussian Blue Analogues for Sodiumâ€Ion Batteries: Past, Present, and Future. Advanced Materials, 2022, 34, e2108384.	21.0	252

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55	On Similarity Preserving Feature Selection. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 619-632.	5.7	249
56	Nanostructured Siâ€“C composite anodes for lithium-ion batteries. Electrochemistry Communications, 2004, 6, 689-692.	4.7	246
57	Nitrogenâ€Doped Graphene Ribbon Assembled Coreâ€“Sheath MnO@Graphene Scrolls as Hierarchically Ordered 3D Porous Electrodes for Fast and Durable Lithium Storage. Advanced Functional Materials, 2016, 26, 7754-7765.	14.9	245
58	Electrode reactions of manganese oxides for secondary lithium batteries. Electrochemistry Communications, 2010, 12, 1520-1523.	4.7	242
59	An investigation of polypyrrole-LiFePO4 composite cathode materials for lithium-ion batteries. Electrochimica Acta, 2005, 50, 4649-4654.	5.2	241
60	Yolk-shell silicon-mesoporous carbon anode with compact solid electrolyte interphase film for superior lithium-ion batteries. Nano Energy, 2015, 18, 133-142.	16.0	238
61	An Allâ€Integrated Anode via Interlinked Chemical Bonding between Doubleâ€Shelledâ€“Yolkâ€Structured Silicon and Binder for Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1703028.	21.0	238
62	Mo₂C/CNT: An Efficient Catalyst for Rechargeable Liâ€“CO₂ Batteries. Advanced Functional Materials, 2017, 27, 1700564.	14.9	236
63	Flexible free-standing graphene-silicon composite film for lithium-ion batteries. Electrochemistry Communications, 2010, 12, 1467-1470.	4.7	234
64	Selfâ€Assembled Germanium/Carbon Nanostructures as Highâ€Power Anode Material for the Lithiumâ€Ion Battery. Angewandte Chemie - International Edition, 2012, 51, 5657-5661.	13.8	231
65	Silicon/Mesoporous Carbon/Crystalline TiO₂ Nanoparticles for Highly Stable Lithium Storage. ACS Nano, 2016, 10, 10524-10532.	14.6	230
66	General Ï€â€Electronâ€Assisted Strategy for Ir, Pt, Ru, Pd, Fe, Ni Singleâ€Atom Electrocatalysts with Bifunctional Active Sites for Highly Efficient Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 11868-11873.	13.8	229
67	Anodic Oxidation Strategy toward Structure-Optimized V₂O₃ Cathode via Electrolyte Regulation for Zn-Ion Storage. ACS Nano, 2020, 14, 7328-7337.	14.6	229
68	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
69	Edgeâ€Hydroxylated Boron Nitride Nanosheets as an Effective Additive to Improve the Thermal Response of Hydrogels. Advanced Materials, 2015, 27, 7196-7203.	21.0	227
70	Electrochemical performance of Î±-Fe2O3 nanorods as anode material for lithium-ion cells. Electrochimica Acta, 2009, 54, 1733-1736.	5.2	226
71	Chemical Properties, Structural Properties, and Energy Storage Applications of Prussian Blue Analogues. Small, 2019, 15, e1900470.	10.0	226
72	Two-dimensional nanostructures for sodium-ion battery anodes. Journal of Materials Chemistry A, 2018, 6, 3284-3303.	10.3	224

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73	Nickel Hydroxide as an Active Material for the Positive Electrode in Rechargeable Alkaline Batteries. Journal of the Electrochemical Society, 1999, 146, 3606-3612.	2.9	223
74	Cathode materials for next generation lithium ion batteries. Nano Energy, 2013, 2, 439-442.	16.0	221
75	Ni(OH)2 Tubes with Mesoscale Dimensions as Positive-Electrode Materials of Alkaline Rechargeable Batteries. Angewandte Chemie - International Edition, 2004, 43, 4212-4216.	13.8	215
76	Ag-sheathed Bi(Pb)SrCaCuO superconducting tapes. Superconductor Science and Technology, 1993, 6, 297-314.	3.5	213
77	Sulfurâ€“Graphene Nanostructured Cathodes via Ball-Milling for High-Performance Lithiumâ€“Sulfur Batteries. ACS Nano, 2014, 8, 10920-10930.	14.6	213
78	High performance MnO@C microcages with a hierarchical structure and tunable carbon shell for efficient and durable lithium storage. Journal of Materials Chemistry A, 2018, 6, 9723-9736.	10.3	212
79	Amorphous Carbon-Coated Silicon Nanocomposites:â€‰ A Low-Temperature Synthesis via Spray Pyrolysis and Their Application as High-Capacity Anodes for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2007, 111, 11131-11138.	3.1	211
80	Engineering the Distribution of Carbon in Silicon Oxide Nanospheres at the Atomic Level for Highly Stable Anodes. Angewandte Chemie - International Edition, 2019, 58, 6669-6673.	13.8	209
81	Graphene wrapped LiFePO4/C composites as cathode materials for Li-ion batteries with enhanced rate capability. Journal of Materials Chemistry, 2012, 22, 16465.	6.7	206
82	High Capacity, Safety, and Enhanced Cyclability of Lithium Metal Battery Using a V₂O₅ Nanomaterial Cathode and Room Temperature Ionic Liquid Electrolyte. Chemistry of Materials, 2008, 20, 7044-7051.	6.7	205
83	Critical thickness of phenolic resin-based carbon interfacial layer for improving long cycling stability of silicon nanoparticle anodes. Nano Energy, 2016, 27, 255-264.	16.0	204
84	Boosting potassium-ion batteries by few-layered composite anodes prepared via solution-triggered one-step shear exfoliation. Nature Communications, 2018, 9, 3645.	12.8	204
85	The effect of different binders on electrochemical properties of LiNi1/3Mn1/3Co1/3O2 cathode material in lithium ion batteries. Journal of Power Sources, 2013, 225, 172-178.	7.8	202
86	A Strategy for Configuration of an Integrated Flexible Sulfur Cathode for Highâ€Performance Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2016, 55, 3992-3996.	13.8	200
87	Integrated Carbon/Red Phosphorus/Graphene Aerogel 3D Architecture via Advanced Vaporâ€Redistribution for Highâ€Energy Sodiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1601037.	19.5	198
88	Highâ€Performance Sodiumâ€Ion Batteries and Sodiumâ€Ion Pseudocapacitors Based on MoS₂/Graphene Composites. Chemistry - A European Journal, 2014, 20, 9607-9612.	3.3	192
89	Prelithiation: A Crucial Strategy for Boosting the Practical Application of Next-Generation Lithium Ion Battery. ACS Nano, 2021, 15, 2197-2218.	14.6	192
90	A highly ordered titania nanotube array as a supercapacitor electrode. Physical Chemistry Chemical Physics, 2011, 13, 5038.	2.8	188

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91	Carbon-coated MoO3 nanobelts as anode materials for lithium-ion batteries. Journal of Power Sources, 2010, 195, 2372-2376.	7.8	187
92	Hollow MnCo₂O₄ Submicrospheres with Multilevel Interiors: From Mesoporous Spheres to Yolk-in-Double-Shell Structures. ACS Applied Materials & Interfaces, 2014, 6, 24-30.	8.0	187
93	A Green and Facile Way to Prepare Granadillaâ€Like Siliconâ€Based Anode Materials for Liâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 440-446.	14.9	187
94	Rapid microwave-assisted synthesis of Mn3O4â€“graphene nanocomposite and its lithium storage properties. Journal of Materials Chemistry, 2012, 22, 3600.	6.7	183
95	Investigation of cobalt oxides as anode materials for Li-ion batteries. Journal of Power Sources, 2002, 109, 142-147.	7.8	182
96	Surface Engineering and Design Strategy for Surfaceâ€Amorphized TiO₂@Graphene Hybrids for High Power Liâ€Ion Battery Electrodes. Advanced Science, 2015, 2, 1500027.	11.2	182
97	Free-standing single-walled carbon nanotube/SnO2 anode paper for flexible lithium-ion batteries. Carbon, 2012, 50, 1289-1297.	10.3	179
98	Studies on electrochemical behaviour of zinc-doped LiFePO4 for lithium battery positive electrode. Journal of Alloys and Compounds, 2009, 477, 498-503.	5.5	178
99	Tuning the Band Gap in Silicene by Oxidation. ACS Nano, 2014, 8, 10019-10025.	14.6	175
100	Edgeâ€Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dyeâ€Sensitized Solar Cells and Lithium Ion Batteries. Advanced Functional Materials, 2015, 25, 1170-1179.	14.9	174
101	Study of silicon/polypyrrole composite as anode materials for Li-ion batteries. Journal of Power Sources, 2005, 146, 448-451.	7.8	172
102	Conducting Poly(aniline) Nanotubes and Nanofibers: Controlled Synthesis and Application in Lithium/Poly(aniline) Rechargeable Batteries. Chemistry - A European Journal, 2006, 12, 3082-3088.	3.3	171
103	Conductivity improvements to spray-produced LiFePO4 by addition of a carbon source. Materials Letters, 2004, 58, 1788-1791.	2.6	170
104	Large-scale synthesis of ordered mesoporous carbon fiber and its application as cathode material for lithiumâ€“sulfur batteries. Carbon, 2015, 81, 782-787.	10.3	170
105	Improved Reversibility of Fe³⁺/Fe⁴⁺ Redox Couple in Sodium Super Ion Conductor Type Na₃Fe₂(PO₄)₃ for Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1605694.	21.0	169
106	A Flexible 3D Multifunctional MgOâ€Decorated Carbon Foam@CNTs Hybrid as Selfâ€Supported Cathode for Highâ€Performance Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2017, 27, 1702573.	14.9	169
107	Feasibility of Cathode Surface Coating Technology for Highâ€Energy Lithiumâ€ion and Beyondâ€Lithiumâ€ion Batteries. Advanced Materials, 2017, 29, 1605807.	21.0	168
108	A new energy storage system: Rechargeable potassium-selenium battery. Nano Energy, 2017, 35, 36-43.	16.0	168

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109	Synthesis of tungsten disulfide (WS2) nanoflakes for lithium ion battery application. Electrochemistry Communications, 2007, 9, 119-122.	4.7	167
110	Multifunctional conducing polymer coated Na1+MnFe(CN)6 cathode for sodium-ion batteries with superior performance via a facile and one-step chemistry approach. Nano Energy, 2015, 13, 200-207.	16.0	165
111	Everlasting Living and Breathing Gyroid 3D Network in Si@SiOx/C Nanoarchitecture for Lithium Ion Battery. ACS Nano, 2019, 13, 9607-9619.	14.6	165
112	Microporous gel polymer electrolytes for lithium rechargeable battery application. Journal of Power Sources, 2012, 201, 294-300.	7.8	163
113	Facile Method To Synthesize Na-Enriched Na_{1+x}FeFe(CN)₆ Frameworks as Cathode with Superior Electrochemical Performance for Sodium-Ion Batteries. Chemistry of Materials, 2015, 27, 1997-2003.	6.7	163
114	High Energy Density Sodiumâ€Ion Battery with Industrially Feasible and Airâ€Stable O3â€Type Layered Oxide Cathode. Advanced Energy Materials, 2018, 8, 1701610.	19.5	161
115	Superior sodium-ion storage performance of Co₃O₄@nitrogen-doped carbon: derived from a metalâ“organic framework. Journal of Materials Chemistry A, 2016, 4, 5428-5435.	10.3	159
116	Cobalt phosphide as a new anode material for sodium storage. Journal of Power Sources, 2015, 294, 627-632.	7.8	158
117	Nanostructured SnSb/Carbon Nanotube Composites Synthesized by Reductive Precipitation for Lithium-Ion Batteries. Chemistry of Materials, 2007, 19, 2406-2410.	6.7	157
118	A Metalâ€Free, Freeâ€Standing, Macroporous Graphene@gâ€C₃N₄ Composite Air Electrode for Highâ€Energy Lithium Oxygen Batteries. Small, 2015, 11, 2817-2824.	10.0	157
119	A new, cheap, and productive FeP anode material for sodium-ion batteries. Chemical Communications, 2015, 51, 3682-3685.	4.1	154
120	Solid Electrolyte Interphases on Sodium Metal Anodes. Advanced Functional Materials, 2020, 30, 2004891.	14.9	154
121	Electrochemical behaviour of tin borophosphate negative electrodes for energy storage systems. Journal of Power Sources, 2008, 185, 1386-1391.	7.8	153
122	Chemical bonding boosts nano-rose-like MoS2 anchored on reduced graphene oxide for superior potassium-ion storage. Nano Energy, 2019, 63, 103868.	16.0	153
123	Synthesis of vanadium pentoxide powders with enhanced surface-area for electrochemical capacitors. Journal of Power Sources, 2006, 162, 1451-1454.	7.8	152
124	Confined Feâ“Cu Clusters as Subâ€Nanometer Reactors for Efficiently Regulating the Electrochemical Nitrogen Reduction Reaction. Advanced Materials, 2020, 32, e2004382.	21.0	152
125	Electrochemical lithiation and de-lithiation of MWNTâ“Sn/SnNi nanocomposites. Carbon, 2005, 43, 1392-1399.	10.3	151
126	Simple synthesis of yolk-shelled ZnCo2O4 microspheres towards enhancing the electrochemical performance of lithium-ion batteries in conjunction with a sodium carboxymethyl cellulose binder. Journal of Materials Chemistry A, 2013, 1, 15292.	10.3	151

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127	Enhanced hydrogen sorption properties of Ni and Co-catalyzed MgH2. International Journal of Hydrogen Energy, 2010, 35, 4569-4575.	7.1	149
128	SnO₂â€“Graphene Composite Synthesized via an Ultrafast and Environmentally Friendly Microwave Autoclave Method and Its Use as a Superior Anode for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 25115-25120.	3.1	147
129	Nickel sulfide nanocrystals on nitrogen-doped porous carbon nanotubes with high-efficiency electrocatalysis for room-temperature sodium-sulfur batteries. Nature Communications, 2019, 10, 4793.	12.8	147
130	Boron-Doped Anatase TiO₂ as a High-Performance Anode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 16009-16015.	8.0	145
131	Spray pyrolyzed NiOâ€“C nanocomposite as an anode material for the lithium-ion battery with enhanced capacity retention. Solid State Ionics, 2010, 180, 1646-1651.	2.7	144
132	Novel nano-silicon/polypyrrole composites for lithium storage. Electrochemistry Communications, 2007, 9, 941-946.	4.7	141
133	Synthesis and characterization of grapheneâ€“nickel oxide nanostructures for fast chargeâ€“discharge application. Electrochimica Acta, 2011, 56, 5815-5822.	5.2	141
134	Enhancement of the electrochemical capacitance of TiO2 nanotube arrays through controlled phase transformation of anatase to rutile. Physical Chemistry Chemical Physics, 2012, 14, 4770.	2.8	138
135	Graphene-scroll-sheathed Î±-MnS coaxial nanocables embedded in N, S Co-doped graphene foam as 3D hierarchically ordered electrodes for enhanced lithium storage. Energy Storage Materials, 2019, 16, 46-55.	18.0	136
136	Global and Local Structure Preservation for Feature Selection. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1083-1095.	11.3	135
137	Investigation of discharge reaction mechanism of lithium | liquid electrolyte | sulfur battery. Journal of Power Sources, 2009, 189, 1179-1183.	7.8	134
138	A new class of cathode materials for rechargeable magnesium batteries: Organosulfur compounds based on sulfurâ€“sulfur bonds. Electrochemistry Communications, 2007, 9, 1913-1917.	4.7	132
139	Spinel Li[Li1/3Ti5/3]O4 as an anode material for lithium ion batteries. Journal of Power Sources, 1999, 83, 156-161.	7.8	131
140	Electrospun P2-type Na_{2/3}(Fe_{1/2}Mn_{1/2})O₂ Hierarchical Nanofibers as Cathode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 8953-8958.	8.0	131
141	Substitution-induced pinning in MgB2superconductor doped with SiC nano-particles. Superconductor Science and Technology, 2002, 15, 1587-1591.	3.5	130
142	Improving the electrochemical performance of the LiNi_{0.5}Mn_{1.5}O₄spinel by polypyrrole coating as a cathode material for the lithium-ion battery. Journal of Materials Chemistry A, 2015, 3, 404-411.	10.3	130
143	Large low-field magnetoresistance over a wide temperature range induced by weak-link grain boundaries in La0.7Ca0.3MnO3. Applied Physics Letters, 1998, 73, 396-398.	3.3	128
144	Silicon/Single-Walled Carbon Nanotube Composite Paper as a Flexible Anode Material for Lithium Ion Batteries. Journal of Physical Chemistry C, 2010, 114, 15862-15867.	3.1	128

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145	Split-half-tubular polypyrrole@sulfur@polypyrrole composite with a novel three-layer-3D structure as cathode for lithium/sulfur batteries. Nano Energy, 2015, 11, 587-599.	16.0	128
146	Nanoparticle-dispersed PEO polymer electrolytes for Li batteries. Journal of Power Sources, 2003, 119-121, 422-426.	7.8	127
147	Nanomaterials for Lithium-ion Rechargeable Batteries. Journal of Nanoscience and Nanotechnology, 2006, 6, 1-15.	0.9	127
148	Synthesis of spinel LiMn2O4 nanoparticles through one-step hydrothermal reaction. Journal of Power Sources, 2007, 172, 410-415.	7.8	127
149	MoO3 nanoparticles dispersed uniformly in carbon matrix: a high capacity composite anode for Li-ion batteries. Journal of Materials Chemistry, 2011, 21, 9350.	6.7	127
150	Structural design of anode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 6183-6205.	10.3	127
151	A Highâ€Kinetics Sulfur Cathode with a Highly Efficient Mechanism for Superior Roomâ€Temperature Naâ€“S Batteries. Advanced Materials, 2020, 32, e1906700.	21.0	126
152	Three-dimensional carbon frameworks enabling MoS2 as anode for dual ion batteries with superior sodium storage properties. Energy Storage Materials, 2018, 15, 22-30.	18.0	125
153	Electron Delocalization and Dissolutionâ€Restraint in Vanadium Oxide Superlattices to Boost Electrochemical Performance of Aqueous Zincâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2001852.	19.5	125
154	Rapid synthesis of Î±-Fe2O3/rGO nanocomposites by microwave autoclave as superior anodes for sodium-ion batteries. Journal of Power Sources, 2015, 280, 107-113.	7.8	123
155	A Comprehensive Review on Controlling Surface Composition of Ptâ€Based Bimetallic Electrocatalysts. Advanced Energy Materials, 2018, 8, 1703597.	19.5	123
156	Electrochemical Performance of Co[sub 3]O[sub 4]â€“C Composite Anode Materials. Electrochemical and Solid-State Letters, 2006, 9, A315.	2.2	122
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