Jun Zhang

List of Publications by Year
in descending order

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185 papers	15,788 citations	13099 68 h-index	17592 121 g-index
186 all docs	186 docs citations	186 times ranked	15623 citing authors

#	Article	IF	Citations
1	Hierarchical Three-Dimensional ZnCo₂O₄ Nanowire Arrays/Carbon Cloth Anodes for a Novel Class of High-Performance Flexible Lithium-Ion Batteries. Nano Letters, 2012, 12, 3005-3011.	9.1	967
2	Pillared Structure Design of MXene with Ultralarge Interlayer Spacing for High-Performance Lithium-Ion Capacitors. ACS Nano, 2017, 11, 2459-2469.	14.6	700
3	Sn⁴⁺ Ion Decorated Highly Conductive Ti₃C₂ MXene: Promising Lithium-Ion Anodes with Enhanced Volumetric Capacity and Cyclic Performance. ACS Nano, 2016, 10, 2491-2499.	14.6	632
4	A 3D Nanostructured Hydrogelâ€Frameworkâ€Derived Highâ€Performance Composite Polymer Lithiumâ€Ion Electrolyte. Angewandte Chemie - International Edition, 2018, 57, 2096-2100.	13.8	484
5	3D lithium metal embedded within lithiophilic porous matrix for stable lithium metal batteries. Nano Energy, 2017, 37, 177-186.	16.0	431
6	Electrochromic properties of porous NiO thin films prepared by a chemical bath deposition. Solar Energy Materials and Solar Cells, 2008, 92, 628-633.	6.2	386
7	Solid-State Lithiumâ€“Sulfur Batteries Operated at 37 Â°C with Composites of Nanostructured Li₇La₃Zr₂O₁₂/Carbon Foam and Polymer. Nano Letters, 2017, 17, 2967-2972.	9.1	384
8	In Situ Reactive Synthesis of Polypyrrole-MnO₂ Coaxial Nanotubes as Sulfur Hosts for High-Performance Lithiumâ€“Sulfur Battery. Nano Letters, 2016, 16, 7276-7281.	9.1	271
9	Hydrothermally synthesized WO3 nanowire arrays with highly improved electrochromic performance. Journal of Materials Chemistry, 2011, 21, 5492.	6.7	264
10	Biomass derived activated carbon with 3D connected architecture for rechargeable lithiumâ"sulfur batteries. Electrochimica Acta, 2014, 116, 146-151.	5.2	258
11	A Conductive Molecular Framework Derived Li₂S/N,Pâ€Codoped Carbon Cathode for Advanced Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2017, 7, 1602876.	19.5	258
12	Efficient Activation of Li₂S by Transition Metal Phosphides Nanoparticles for Highly Stable Lithiumâ€“Sulfur Batteries. ACS Energy Letters, 2017, 2, 1711-1719.	17.4	252
13	Mg₂B₂O₅ Nanowire Enabled Multifunctional Solid-State Electrolytes with High Ionic Conductivity, Excellent Mechanical Properties, and Flame-Retardant Performance. Nano Letters, 2018, 18, 3104-3112.	9.1	245
14	In SituTransmission Electron Microscopy Observation of the Conversion Mechanism of Fe₂O₃/Graphene Anode during Lithiationâ€“Delithiation Processes. ACS Nano, 2013, 7, 9115-9121.	14.6	221
15	Atomic Sulfur Covalently Engineered Interlayers of Ti₃C₂ MXene for Ultraâ€Fast Sodiumâ€Ion Storage by Enhanced Pseudocapacitance. Advanced Functional Materials, 2019, 29, 1808107.	14.9	213
16	Facilitation of sulfur evolution reaction by pyridinic nitrogen doped carbon nanoflakes for highly-stable lithium-sulfur batteries. Energy Storage Materials, 2018, 10, 1-9.	18.0	208
17	In situ synthesis of hierarchical poly(ionic liquid)-based solid electrolytes for high-safety lithium-ion and sodium-ion batteries. Nano Energy, 2017, 33, 45-54.	16.0	205
18	Nanostructured Host Materials for Trapping Sulfur in Rechargeable Liâ€“S Batteries: Structure Design and Interfacial Chemistry. Small Methods, 2018, 2, 1700279.	8.6	201

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19	Tunable pseudocapacitance storage of MXene by cation pillaring for high performance sodium-ion capacitors. Journal of Materials Chemistry A, 2018, 6, 7794-7806.	10.3	186
20	A Tunable 3D Nanostructured Conductive Gel Framework Electrode for Highâ€Performance Lithium Ion Batteries. Advanced Materials, 2017, 29, 1603922.	21.0	175
21	An all-solid-state electrochromic device based on NiO/WO3 complementary structure and solid hybrid polyelectrolyte. Solar Energy Materials and Solar Cells, 2009, 93, 1840-1845.	6.2	170
22	All-solid-state batteries with slurry coated LiNi0.8Co0.1Mn0.1O2 composite cathode and Li6PS5Cl electrolyte: Effect of binder content. Journal of Power Sources, 2018, 391, 73-79.	7.8	168
23	Microporous carbon nanosheets derived from corncobs for lithiumâ€“sulfur batteries. Electrochimica Acta, 2015, 176, 853-860.	5.2	162
24	Tuning the Band Structure of MoS₂ via Co₉S₈@MoS₂ Coreâ€“Shell Structure to Boost Catalytic Activity for Lithiumâ€“Sulfur Batteries. ACS Nano, 2020, 14, 17285-17294.	14.6	161
25	Sulfur/three-dimensional graphene composite for high performance lithiumâ€“sulfur batteries. Journal of Power Sources, 2015, 275, 22-25.	7.8	155
26	An efficient route to a porous NiO/reduced graphene oxide hybrid film with highly improved electrochromic properties. Nanoscale, 2012, 4, 5724.	5.6	154
27	Morphology effect on the electrochromic and electrochemical performances of NiO thin films. Electrochimica Acta, 2008, 53, 5721-5724.	5.2	153
28	Metal oxide nanoparticles induced step-edge nucleation of stable Li metal anode working under an ultrahigh current density of 15 mA cmâ^'2. Nano Energy, 2018, 45, 203-209.	16.0	153
29	Enhanced sulfide chemisorption using boron and oxygen dually doped multi-walled carbon nanotubes for advanced lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 632-640.	10.3	151
30	Confining Sulfur in N-Doped Porous Carbon Microspheres Derived from Microalgaes for Advanced Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 23782-23791.	8.0	148
31	Energy gels: A bio-inspired material platform for advanced energy applications. Nano Today, 2016, 11, 738-762.	11.9	144
32	Multicolor electrochromic polyanilineâ€“WO3 hybrid thin films: One-pot molecular assembling synthesis. Journal of Materials Chemistry, 2011, 21, 17316.	6.7	141
33	Electrochromic behavior of WO3 nanotree films prepared by hydrothermal oxidation. Solar Energy Materials and Solar Cells, 2011, 95, 2107-2112.	6.2	141
34	Porous reduced graphene oxide sheet wrapped silicon composite fabricated by steam etching for lithium-ion battery application. Journal of Power Sources, 2015, 286, 431-437.	7.8	141
35	Poly(ethylene oxide) reinforced Li6PS5Cl composite solid electrolyte for all-solid-state lithium battery: Enhanced electrochemical performance, mechanical property and interfacial stability. Journal of Power Sources, 2019, 412, 78-85.	7.8	141
36	Unraveling the Intra and Intercycle Interfacial Evolution of Li₆PS₅Clâ€Based Allâ€Solidâ€State Lithium Batteries. Advanced Energy Materials, 2020, 10, 1903311.	19.5	141

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37	Nanostructured Conductive Polymer Gels as a General Framework Material To Improve Electrochemical Performance of Cathode Materials in Li-Ion Batteries. Nano Letters, 2017, 17, 1906-1914.	9.1	131
38	In Situ Transmission Electron Microscopy Observation of Electrochemical Behavior of CoS₂ in Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2014, 6, 3016-3022.	8.0	129
39	Ionic conductivity promotion of polymer electrolyte with ionic liquid grafted oxides for all-solid-state lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 12934-12942.	10.3	126
40	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.	14.9	125
41	Dual electrochromic film based on WO3/polyaniline core/shell nanowire array. Solar Energy Materials and Solar Cells, 2014, 122, 51-58.	6.2	121
42	Revealing the electrochemical conversion mechanism of porous Co3O4 nanoplates in lithium ion battery by in situ transmission electron microscopy. Nano Energy, 2014, 9, 264-272.	16.0	119
43	Highly dispersed surface active species of Mn/Ce/TiW catalysts for high performance at low temperature NH3-SCR. Chemical Engineering Journal, 2017, 330, 1195-1202.	12.7	119
44	Cobalt Oxide Ordered Bowl-Like Array Films Prepared by Electrodeposition through Monolayer Polystyrene Sphere Template and Electrochromic Properties. ACS Applied Materials & Interfaces, 2010, 2, 186-192.	8.0	118
45	Sulfur nanocrystals anchored graphene composite with highly improved electrochemical performance for lithiumâ€“sulfur batteries. Journal of Power Sources, 2014, 270, 1-8.	7.8	106
46	Nitrogen-doped carbon shell on metal oxides core arrays as enhanced anode for lithium ion batteries. Journal of Alloys and Compounds, 2016, 688, 729-735.	5.5	106
47	A General Approach to Fabricate Diverse Nobleâ€Metal (Au, Pt, Ag, Pt/Au)/Fe₂O₃ Hybrid Nanomaterials. Chemistry - A European Journal, 2010, 16, 8108-8116.	3.3	105
48	Facile synthesis of porous NiO hollow microspheres and its electrochemical lithium-storage performance. Electrochimica Acta, 2013, 92, 87-92.	5.2	101
49	Enhanced electrochromic performance of macroporous WO3 films formed by anodic oxidation of DC-sputtered tungsten layers. Electrochimica Acta, 2010, 55, 6953-6958.	5.2	96
50	Incorporation of MWCNTs into leaf-like CuO nanoplates for superior reversible Li-ion storage. Electrochemistry Communications, 2010, 12, 1103-1107.	4.7	95
51	Green synthesis of graphite from CO2 without graphitization process of amorphous carbon. Nature Communications, 2021, 12, 119.	12.8	93
52	Silicon-Doped Argyrodite Solid Electrolyte Li₆PS₅I with Improved Ionic Conductivity and Interfacial Compatibility for High-Performance All-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 41538-41545.	8.0	90
53	In Situ TEM Observation of the Electrochemical Process of Individual CeO₂/Graphene Anode for Lithium Ion Battery. Journal of Physical Chemistry C, 2013, 117, 4292-4298.	3.1	89
54	Sustainable, inexpensive, naturally multi-functionalized biomass carbon for both Li metal anode and sulfur cathode. Energy Storage Materials, 2018, 15, 218-225.	18.0	88

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55	Two-dimensional materials for lithium/sodium-ion capacitors. Materials Today Energy, 2019, 11, 30-45.	4.7	88
56	Biomass derived Ni(OH)2@porous carbon/sulfur composites synthesized by a novel sulfur impregnation strategy based on supercritical CO2 technology for advanced Li-S batteries. Journal of Power Sources, 2018, 378, 73-80.	7.8	87
57	Enhanced electrochromics of nanoporous cobalt oxide thin film prepared by a facile chemical bath deposition. Electrochemistry Communications, 2008, 10, 1815-1818.	4.7	79
58	Ultra-thin WO3 nanorod embedded polyaniline composite thin film: Synthesis and electrochromic characteristics. Solar Energy Materials and Solar Cells, 2013, 114, 31-37.	6.2	77
59	In Situ Transmission Electron Microscopy Observation of Electrochemical Sodiation of Individual Co₉S₈-Filled Carbon Nanotubes. ACS Nano, 2014, 8, 3620-3627.	14.6	76
60	Microwave irradiation synthesis of Co3O4 quantum dots/graphene composite as anode materials for Li-ion battery. Electrochimica Acta, 2014, 143, 175-179.	5.2	76
61	Achieving efficient and stable interface between metallic lithium and garnet-type solid electrolyte through a thin indium tin oxide interlayer. Journal of Power Sources, 2020, 448, 227440.	7.8	75
62	Improved Electrochemical Performance of Self-Assembled Hierarchical Nanostructured Nickel Phosphide as a Negative Electrode for Lithium Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 23760-23767.	3.1	74
63	A highly porous NiO/polyaniline composite film prepared by combining chemical bath deposition and electro-polymerization and its electrochromic performance. Nanotechnology, 2008, 19, 465701.	2.6	73
64	Enhanced electrochromic performance of highly ordered, macroporous WO3 arrays electrodeposited using polystyrene colloidal crystals as template. Electrochimica Acta, 2013, 99, 1-8.	5.2	72
65	The effects of tungsten and hydrothermal aging in promoting NH3-SCR activity on V2O5/WO3-TiO2 catalysts. Applied Surface Science, 2018, 459, 639-646.	6.1	72
66	Synthesis of Porous NiO-Wrapped Graphene Nanosheets and Their Improved Lithium Storage Properties. Journal of Physical Chemistry C, 2013, 117, 24121-24128.	3.1	70
67	In Situ Transmission Electron Microscopy Investigation of the Electrochemical Lithiationâ€“Delithiation of Individual Co₉S₈/Co-Filled Carbon Nanotubes. ACS Nano, 2013, 7, 11379-11387.	14.6	70
68	Multicolor and fast electrochromism of nanoporous NiO/poly(3,4-ethylenedioxythiophene) composite thin film. Electrochemistry Communications, 2009, 11, 702-705.	4.7	68
69	The direct growth of a WO₃ nanosheet array on a transparent conducting substrate for highly efficient electrochromic and electrocatalytic applications. CrystEngComm, 2014, 16, 6866-6872.	2.6	67
70	Nanoleaf-on-sheet CuO/graphene composites: Microwave-assisted assemble and excellent electrochemical performances for lithium ion batteries. Electrochimica Acta, 2014, 125, 615-621.	5.2	67
71	Fast electrochromic properties of self-supported Co3O4 nanowire array film. Solar Energy Materials and Solar Cells, 2010, 94, 386-389.	6.2	66
72	Visualizing the electrochemical reaction of ZnO nanoparticles with lithium byin situTEM: two reaction modes are revealed. Nanotechnology, 2013, 24, 255705.	2.6	65

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73	Microwave-assisted synthesis of hollow CuOâ€“Cu2O nanosphere/graphene composite as anode for lithium-ion battery. Journal of Alloys and Compounds, 2014, 615, 390-394.	5.5	65
74	Sulfur@hollow polypyrrole sphere nanocomposites for rechargeable Liâ€“S batteries. RSC Advances, 2013, 3, 24914.	3.6	64
75	One-pot Biotemplate Synthesis of FeS 2 Decorated Sulfur-doped Carbon Fiber as High Capacity Anode for Lithium-ion Batteries. Electrochimica Acta, 2016, 209, 201-209.	5.2	63
76	2â€‰D MXeneâ€based Energy Storage Materials: Interfacial Structure Design and Functionalization. ChemSusChem, 2020, 13, 1409-1419.	6.8	63
77	Facile assembly of a S@carbon nanotubes/polyaniline/graphene composite for lithiumâ€“sulfur batteries. RSC Advances, 2017, 7, 9819-9825.	3.6	62
78	Self-assembled sandwich-like NiO film and its application for Li-ion batteries. Journal of Alloys and Compounds, 2011, 509, 3889-3893.	5.5	61
79	Ag-modification improving the electrochemical performance of ZnO anode for Ni/Zn secondary batteries. Journal of Alloys and Compounds, 2009, 479, 624-628.	5.5	60
80	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.	3.1	60
81	Nanosulfur/polyaniline/graphene composites for high-performance lithiumâ€“sulfur batteries: One pot in-situ synthesis. Materials Letters, 2014, 133, 193-196.	2.6	60
82	Carbonâ€Decorated Singleâ€Crystalline Ni₂P Nanotubes Derived from Ni Nanowire Templates: A Highâ€Performance Material for Liâ€Ion Batteries. Chemistry - A European Journal, 2012, 18, 6031-6038.	3.3	59
83	A strategy of fast reversible wettability changes of WO3 surfaces between superhydrophilicity and superhydrophobicity. Journal of Colloid and Interface Science, 2010, 352, 573-579.	9.4	55
84	Sonochemical synthesis of CuS/reduced graphene oxide nanocomposites with enhanced absorption and photocatalytic performance. Materials Letters, 2014, 126, 220-223.	2.6	55
85	Current status and future directions of all-solid-state batteries with lithium metal anodes, sulfide electrolytes, and layered transition metal oxide cathodes. Nano Energy, 2021, 87, 106081.	16.0	55
86	Unprecedented Selfâ€Healing Effect of Li₆PS₅Clâ€Based Allâ€Solidâ€State Lithium Battery. Small, 2021, 17, e2101326.	10.0	54
87	Hydrogen bonding enhanced SiO₂/PEO composite electrolytes for solid-state lithium batteries. Journal of Materials Chemistry A, 2022, 10, 3400-3408.	10.3	54
88	Graphene-wrapped sulfur nanospheres with ultra-high sulfur loading for high energy density lithiumâ€“sulfur batteries. Applied Surface Science, 2015, 324, 399-404.	6.1	53
89	Empowering Metal Phosphides Anode with Catalytic Attribute toward Superior Cyclability for Lithiumâ€Ion Storage. Advanced Functional Materials, 2019, 29, 1809051.	14.9	52
90	Porous CoO/C polyhedra as anode material for Li-ion batteries. Electrochimica Acta, 2013, 108, 506-511.	5.2	51

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91	Enhancing Catalyzed Decomposition of Na₂CO₃ with Co₂MnO_x Nanowire-Decorated Carbon Fibers for Advanced Naâ€“CO₂ Batteries. ACS Applied Materials & Interfaces, 2018, 10, 17240-17248.	8.0	49
92	Supercritical CO₂ mediated incorporation of sulfur into carbon matrix as cathode materials towards high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 212-222.	10.3	49
93	Composite polymer electrolytes reinforced by a three-dimensional polyacrylonitrile/Li0.33La0.557TiO3 nanofiber framework for room-temperature dendrite-free all-solid-state lithium metal battery. Rare Metals, 2022, 41, 1870-1879.	7.1	48
94	Synthesis and electrochemical performance of rod-like LiV3O8 cathode materials for rechargeable lithium batteries. Journal of Power Sources, 2012, 198, 287-293.	7.8	46
95	Puffed Rice Carbon with Coupled Sulfur and Metal Iron for High-Efficiency Mercury Removal in Aqueous Solution. Environmental Science & Technology, 2020, 54, 2539-2547.	10.0	46
96	A green and facile strategy for the low-temperature and rapid synthesis of Li₂S@PCâ€“CNT cathodes with high Li₂S content for advanced Liâ€“S batteries. Journal of Materials Chemistry A, 2018, 6, 9906-9914.	10.3	45
97	Enhanced electrochemical performance by wrapping graphene on carbon nanotube/sulfur composites for rechargeable lithiumâ€“sulfur batteries. Materials Letters, 2014, 137, 277-280.	2.6	44
98	A new strategy for the construction of 3D TiO₂ nanowires/reduced graphene oxide for high-performance lithium/sodium batteries. Journal of Materials Chemistry A, 2018, 6, 24256-24266.	10.3	43
99	Bio-templated fabrication of MnO nanoparticles in SiOC matrix with lithium storage properties. Chemical Engineering Journal, 2019, 359, 584-593.	12.7	43
100	Improved electrochromic performance of hierarchically porous Co3O4 array film through self-assembled colloidal crystal template. Electrochimica Acta, 2010, 55, 989-994.	5.2	41
101	Preparation of porous Co3O4 polyhedral architectures and its application as anode material in lithium-ion battery. Materials Letters, 2013, 97, 129-132.	2.6	40
102	l-cysteine-assisted preparation of porous NiO hollow microspheres with enhanced performance for lithium storage. CrystEngComm, 2013, 15, 8314.	2.6	40
103	Hydrothermal preparation of Co3O4/graphene composite as anode material for lithium-ion batteries. Materials Letters, 2013, 106, 178-181.	2.6	40
104	Interfacial Reactions in Inorganic Allâ€Solidâ€State Lithium Batteries. Batteries and Supercaps, 2021, 4, 8-38.	4.7	39
105	One-pot synthesis of Fe2O3/graphene and its lithium-storage performance. Electrochimica Acta, 2013, 113, 212-217.	5.2	38
106	Growth of hierarchal porous CoO nanowire arrays on carbon cloth as binder-free anodes for high-performance flexible lithium-ion batteries. Journal of Alloys and Compounds, 2016, 655, 372-377.	5.5	38
107	Freeze-drying synthesis of Li3V2(PO4)3/C cathode material for lithium-ion batteries. Journal of Alloys and Compounds, 2012, 536, 132-137.	5.5	37
108	One-pot solvothermal synthesis of ZnFe2O4 nanospheres/graphene composites with improved lithium-storage performance. Materials Research Bulletin, 2015, 65, 204-209.	5.2	37

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109	Crystallization and Rheology of Poly(ethylene oxide) in Imidazolium Ionic Liquids. Macromolecules, 2016, 49, 6106-6115.	4.8	37
110	High-content of sulfur uniformly embedded in mesoporous carbon: a new electrodeposition synthesis and an outstanding lithiumâ€“sulfur battery cathode. Journal of Materials Chemistry A, 2017, 5, 5905-5911.	10.3	37
111	Pt supported self-assembled nest-like-porous WO3 hierarchical microspheres as electrocatalyst for methanol oxidation. Electrochimica Acta, 2013, 88, 107-111.	5.2	36
112	Enhanced sulfide chemisorption by conductive Al-doped ZnO decorated carbon nanoflakes for advanced Liâ€“S batteries. Nano Research, 2018, 11, 477-489.	10.4	36
113	Ultrafine SnO2 nanocrystals anchored graphene composites as anode material for lithium-ion batteries. Materials Research Bulletin, 2015, 68, 120-125.	5.2	35
114	Supercritical fluid assisted biotemplating synthesis of Siâ€“Oâ€“C microspheres from microalgae for advanced Li-ion batteries. RSC Advances, 2016, 6, 69764-69772.	3.6	35
115	A 3D Nanostructured Hydrogelâ€Frameworkâ€Derived Highâ€Performance Composite Polymer Lithiumâ€Ion Electrolyte. Angewandte Chemie, 2018, 130, 2118-2122.	2.0	34
116	A Solar-Driven Flexible Electrochromic Supercapacitor. Materials, 2020, 13, 1206.	2.9	34
117	Microstructure and infrared reflectance modulation properties in DC-sputtered tungsten oxide films. Journal of Solid State Electrochemistry, 2011, 15, 2213-2219.	2.5	33
118	Electrical heating behavior of flexible thermoplastic polyurethane/Super-P nanoparticle composite films for advanced wearable heaters. Journal of Industrial and Engineering Chemistry, 2019, 71, 293-300.	5.8	33
119	Highly improved electrochemical performance of Li-S batteries with heavily nitrogen-doped three-dimensional porous graphene interlayers. Materials Research Bulletin, 2016, 84, 218-224.	5.2	32
120	Synthesis of hierarchical porous carbon from metal carbonates towards high-performance lithium storage. Green Chemistry, 2018, 20, 1484-1490.	9.0	32
121	Microwave-assisted synthesis of Co3O4â€“graphene sheet-on-sheet nanocomposites and electrochemical performances for lithium ion batteries. Materials Research Bulletin, 2015, 72, 43-49.	5.2	30
122	H₂O-induced self-propagating synthesis of hierarchical porous carbon: a promising lithium storage material with superior rate capability and ultra-long cycling life. Journal of Materials Chemistry A, 2017, 5, 18221-18229.	10.3	30
123	Synthesis and electrochemical performance of poly(vinylidene fluoride)/SiO2 hybrid membrane for lithium-ion batteries. Journal of Solid State Electrochemistry, 2019, 23, 519-527.	2.5	28
124	In Situ Transmission Electron Microscopy Observation of the Lithiationâ€“Delithiation Conversion Behavior of CuO/Graphene Anode. ACS Applied Materials & Interfaces, 2015, 7, 23062-23068.	8.0	27
125	Integrated photo-chargeable electrochromic energy-storage devices. Electrochimica Acta, 2020, 345, 136235.	5.2	27
126	Supercritical CO₂-assisted synthesis of 3D porous SiOC/Se cathode for ultrahigh areal capacity and long cycle life Liâ€“Se batteries. Journal of Materials Chemistry A, 2018, 6, 24773-24782.	10.3	26

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127	Toast-like porous carbon derived from one-step reduction of CaCO3 for electrochemical lithium storage. Carbon, 2018, 130, 559-565.	10.3	23
128	Preparation of carbon-coated MnFe2O4 nanospheres as high-performance anode materials for lithium-ion batteries. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	22
129	Rational design of TiO2@ nitrogen-doped carbon coaxial nanotubes as anode for advanced lithium ion batteries. Applied Surface Science, 2018, 458, 1018-1025.	6.1	22
130	Improved high rate capability of Li[Li0.2Mn0.534Co0.133Ni0.133]O2 cathode material by surface modification with Co3O4. Journal of Alloys and Compounds, 2019, 783, 349-356.	5.5	22
131	Facile synthesis of Fe3O4@C quantum dots/graphene nanocomposite with enhanced lithium-storage performance. Materials Letters, 2015, 142, 287-290.	2.6	21
132	N991/MWCNTs/PEO composite films with nano SiO 2 particles as filler for advanced flexible electric heating elements. Materials Research Bulletin, 2017, 90, 273-279.	5.2	21
133	Synthesis and electrochemical performance of nano TiO₂(B)-coated Li[Li_{0.2}Mn_{0.54}Co_{0.13}Ni_{0.13}]O₂ cathode materials for lithium-ion batteries. New Journal of Chemistry, 2017, 41, 12962-12968.	2.8	21
134	Ultraefficient Conversion of CO₂ into Morphologyâ€Controlled Nanocarbons: A Sustainable Strategy toward Greenhouse Gas Utilization. Small, 2019, 15, e1902249.	10.0	21
135	Supercritical fluid assisted synthesis of titanium carbide particles embedded in mesoporous carbon for advanced Li-S batteries. Journal of Alloys and Compounds, 2017, 706, 227-233.	5.5	20
136	A high-performance electrochromic battery based on complementary Prussian white/Li4Ti5O12 thin film electrodes. Solar Energy Materials and Solar Cells, 2021, 231, 111314.	6.2	20
137	Hybrid nanoarchitecture of TiO 2 nanotubes and graphene sheet for advanced lithium ion batteries. Materials Research Bulletin, 2017, 96, 425-430.	5.2	19
138	Submicron silica as highâ”capacity lithium storage material with superior cycling performance. Materials Research Bulletin, 2017, 96, 347-353.	5.2	19
139	Synthesis and electrochemical properties of LiMnPO4-modified Li[Li0.2Mn0.534Co0.133Ni0.133]O2 cathode material for Li-ion batteries. Electrochimica Acta, 2017, 235, 1-9.	5.2	19
140	Effects of Nd-modification on the activity and SO₂ resistance of MnO_x/TiO₂ catalysts for low-temperature NH₃-SCR. New Journal of Chemistry, 2018, 42, 12845-12852.	2.8	19
141	A Low-Cost and High-Efficiency Electrothermal Composite Film Composed of Hybrid Conductivity Fillers and Polymer Blends Matrix for High-Performance Plate Heater. Journal of Electronic Materials, 2021, 50, 3084-3094.	2.2	19
142	High-rate transition metal-based cathode materials for battery-supercapacitor hybrid devices. Nanoscale Advances, 2021, 3, 5222-5239.	4.6	18
143	Green and Low-Temperature Synthesis of Foam-like Hierarchical Porous Carbon from CO₂ as Superior Lithium Storage Material. ACS Applied Energy Materials, 2018, 1, 7123-7129.	5.1	17
144	Supercritical CO₂-Fluid-Assisted Synthesis of TiO₂ Quantum Dots/Reduced Graphene Oxide Composites for Outstanding Sodium Storage Capability. ACS Applied Energy Materials, 2018, 1, 7213-7219.	5.1	17

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145	A new magnesium hydride route to synthesize morphology-controlled Si/rGO nanocomposite towards high-performance lithium storage. Electrochimica Acta, 2020, 330, 135248.	5.2	17
146	Spinel LiNi0.5Mn1.5O4 shell enables Ni-rich layered oxide cathode with improved cycling stability and rate capability for high-energy lithium-ion batteries. Electrochimica Acta, 2022, 418, 140352.	5.2	17
147	Preparation of Cr-doped Ba4In2O7/In2O3 nanocomposite and its photo-assisted chargeability in hydrogen storage alloy/photocatalyst electrode. Journal of Alloys and Compounds, 2008, 462, 220-224.	5.5	16
148	Hierarchically assembled mesoporous carbon nanosheets with an ultra large pore volume for high-performance lithiumâ€“sulfur batteries. New Journal of Chemistry, 2019, 43, 1380-1387.	2.8	16
149	Graphite oxide-assisted sonochemical preparation of Î±-Bi2O3 nanosheets and their high-efficiency visible light photocatalytic activity. Journal of Materials Science, 2014, 49, 218-224.	3.7	15
150	Graphene/TiO2 decorated N-doped carbon foam as 3D porous current collector for high loading sulfur cathode. Materials Research Bulletin, 2021, 135, 111129.	5.2	15
151	High-Performance All-Solid-State Lithiumâ€“Sulfur Batteries Enabled by Slurry-Coated Li6PS5Cl/S/C Composite Electrodes. Frontiers in Energy Research, 2021, 8, .	2.3	15
152	Importing Tin Nanoparticles into Biomassâ€Derived Silicon Oxycarbides with Highâ€Rate Cycling Capability Based on Supercritical Fluid Technology. Chemistry - A European Journal, 2019, 25, 7719-7725.	3.3	14
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