

Hongen Wang

List of Publications by Year in descending order

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184
papers

13,476
citations

16411

64
h-index

24179

110
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184
all docs

184
docs citations

184
times ranked

16431
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of hierarchically structured porous materials from energy storage and conversion, catalysis, photocatalysis, adsorption, separation, and sensing to biomedicine. <i>Chemical Society Reviews</i> , 2016, 45, 3479-3563.	18.7	1,134
2	Hierarchically porous materials: synthesis strategies and structure design. <i>Chemical Society Reviews</i> , 2017, 46, 481-558.	18.7	1,030
3	Hierarchically Structured Porous Materials for Energy Conversion and Storage. <i>Advanced Functional Materials</i> , 2012, 22, 4634-4667.	7.8	796
4	MoSe ₂ nanosheets perpendicularly grown on graphene with Mo-C bonding for sodium-ion capacitors. <i>Nano Energy</i> , 2018, 47, 224-234.	8.2	358
5	Emerging of Heterostructure Materials in Energy Storage: A Review. <i>Advanced Materials</i> , 2021, 33, e2100855.	11.1	308
6	Tunable Band Gaps and p-Type Transport Properties of Boron-Doped Graphenes by Controllable Ion Doping Using Reactive Microwave Plasma. <i>ACS Nano</i> , 2012, 6, 1970-1978.	7.3	244
7	Probing effective photocorrosion inhibition and highly improved photocatalytic hydrogen production on monodisperse PANI@CdS core-shell nanospheres. <i>Applied Catalysis B: Environmental</i> , 2016, 188, 351-359.	10.8	219
8	Growth, patterning and alignment of organolead iodide perovskite nanowires for optoelectronic devices. <i>Nanoscale</i> , 2015, 7, 4163-4170.	2.8	181
9	Bio-inspired Murray materials for mass transfer and activity. <i>Nature Communications</i> , 2017, 8, 14921.	5.8	176
10	One-Dimensional Metal Oxide Nanotubes, Nanowires, Nanoribbons, and Nanorods: Synthesis, Characterizations, Properties and Applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2012, 37, 1-74.	6.8	170
11	Walnut-like Porous Core/Shell TiO ₂ with Hybridized Phases Enabling Fast and Stable Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10652-10663.	4.0	169
12	Single-crystal MnO ₂ nanorods: synthesis and electrochemical properties. <i>Nanotechnology</i> , 2007, 18, 115616.	1.3	166
13	Hierarchically structured porous materials: synthesis strategies and applications in energy storage. <i>National Science Review</i> , 2020, 7, 1667-1701.	4.6	164
14	Tailoring CuO nanostructures for enhanced photocatalytic property. <i>Journal of Colloid and Interface Science</i> , 2012, 384, 1-9.	5.0	162
15	Lamellar MoSe ₂ nanosheets embedded with MoO ₃ nanoparticles: novel hybrid nanostructures promoted excellent performances for lithium ion batteries. <i>Nanoscale</i> , 2016, 8, 17902-17910.	2.8	143
16	rGO/SnS ₂ /TiO ₂ heterostructured composite with dual-confinement for enhanced lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25056-25063.	5.2	136
17	Well Shaped Mn ₃ O ₄ Nanooctahedra with Anomalous Magnetic Behavior and Enhanced Photodecomposition Properties. <i>Small</i> , 2011, 7, 475-483.	5.2	131
18	Design of coherent anode materials with OD Ni ₃ S ₂ nanoparticles self-assembled on 3D interconnected carbon networks for fast and reversible sodium storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7394-7402.	5.2	125

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19	Design of new anode materials based on hierarchical, three dimensional ordered macro-mesoporous TiO ₂ for high performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9699.	5.2	124
20	Facile synthesis of porous LiMn ₂ O ₄ spheres as positive electrode for high-power lithium ion batteries. <i>Journal of Power Sources</i> , 2012, 198, 251-257.	4.0	122
21	Phosphorized SnO ₂ /graphene heterostructures for highly reversible lithium-ion storage with enhanced pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3479-3487.	5.2	117
22	Reversible and fast Na-ion storage in MoO ₂ /MoSe ₂ heterostructures for high energy-high power Na-ion capacitors. <i>Energy Storage Materials</i> , 2018, 12, 241-251.	9.5	117
23	SnS ₂ /TiO ₂ nanohybrids chemically bonded on nitrogen-doped graphene for lithium-sulfur batteries: synergy of vacancy defects and heterostructures. <i>Nanoscale</i> , 2018, 10, 15505-15512.	2.8	116
24	3D interconnected macro-mesoporous electrode with self-assembled NiO nanodots for high-performance supercapacitor-like Li-ion battery. <i>Nano Energy</i> , 2016, 22, 269-277.	8.2	115
25	3D Ferroconcrete-Like Aminated Carbon Nanotubes Network Anchoring Sulfur for Advanced Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2018, 8, 1801066.	10.2	115
26	Encapsulating NiS nanocrystal into nitrogen-doped carbon framework for high performance sodium/potassium-ion storage. <i>Chemical Engineering Journal</i> , 2020, 392, 123675.	6.6	115
27	Ultralong Cu(OH) ₂ and CuO nanowire bundles: PEG200-directed crystal growth for enhanced photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 303-312.	5.0	113
28	Hydrothermal synthesis of hierarchical SnO ₂ microspheres for gas sensing and lithium-ion batteries applications: Fluoride-mediated formation of solid and hollow structures. <i>Journal of Materials Chemistry</i> , 2012, 22, 2140-2148.	6.7	112
29	Manganese dioxide nanosheet functionalized sulfur@PEDOT core-shell nanospheres for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9403-9412.	5.2	112
30	Sulfur-deficient MoS ₂ grown inside hollow mesoporous carbon as a functional polysulfide mediator. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12068-12074.	5.2	112
31	Rapid Microwave Synthesis of Porous TiO ₂ Spheres and Their Applications in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10419-10425.	1.5	111
32	Oxygen-deficient titanium dioxide as a functional host for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10346-10353.	5.2	109
33	Engineering single crystalline Mn ₃ O ₄ nano-octahedra with exposed highly active {011} facets for high performance lithium ion batteries. <i>Nanoscale</i> , 2014, 6, 6819.	2.8	99
34	Hydrothermal synthesis of ordered single-crystalline rutile TiO ₂ nanorod arrays on different substrates. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	97
35	Amorphous/crystalline hybrid MoO ₂ nanosheets for high-energy lithium-ion capacitors. <i>Chemical Communications</i> , 2017, 53, 10723-10726.	2.2	97
36	Hierarchical mesoporous urchin-like Mn ₃ O ₄ /carbon microspheres with highly enhanced lithium battery performance by in-situ carbonization of new lamellar manganese alkoxide (Mn-DEC). <i>Nano Energy</i> , 2015, 12, 833-844.	8.2	96

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37	2D ZnO mesoporous single-crystal nanosheets with exposed {0001} polar facets for the depollution of cationic dye molecules by highly selective adsorption and photocatalytic decomposition. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 138-145.	10.8	95
38	Pt supported on Mo ₂ C particles with synergistic effect and strong interaction force for methanol electro-oxidation. <i>Electrochimica Acta</i> , 2013, 95, 218-224.	2.6	92
39	Anchoring ultrafine metallic and oxidized Pt nanoclusters on yolk-shell TiO ₂ for unprecedentedly high photocatalytic hydrogen production. <i>Nano Energy</i> , 2017, 38, 118-126.	8.2	91
40	Mussel-inspired coating of energetic crystals: A compact core-shell structure with highly enhanced thermal stability. <i>Chemical Engineering Journal</i> , 2017, 309, 140-150.	6.6	91
41	High photocatalytic activity enhancement of titania inverse opal films by slow photon effect induced strong light absorption. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15491.	5.2	90
42	PtO nanodots promoting Ti ₃ C ₂ MXene in-situ converted Ti ₃ C ₂ /TiO ₂ composites for photocatalytic hydrogen production. <i>Chemical Engineering Journal</i> , 2021, 420, 129695.	6.6	88
43	Structural engineering of tin sulfides anchored on nitrogen/phosphorus dual-doped carbon nanofibres in sodium/potassium-ion batteries. <i>Carbon</i> , 2022, 189, 46-56.	5.4	86
44	Hybrid photovoltaic cells based on ZnO/Sb ₂ S ₃ /P3HT heterojunctions. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 627-633.	0.7	85
45	High Efficiency CdS/CdSe Quantum Dot Sensitized Solar Cells with Two ZnSe Layers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34482-34489.	4.0	85
46	Superior Pseudocapacitive Lithium-Ion Storage in Porous Vanadium Oxides@C Heterostructure Composite. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43665-43673.	4.0	83
47	MOF-derived nitrogen-doped core-shell hierarchical porous carbon confining selenium for advanced lithium-selenium batteries. <i>Nanoscale</i> , 2019, 11, 6970-6981.	2.8	83
48	Three-dimensionally Ordered Macroporous Titania with Structural and Photonic Effects for Enhanced Photocatalytic Efficiency. <i>ChemSusChem</i> , 2011, 4, 1481-1488.	3.6	81
49	An oxygen-deficient vanadium oxide@N-doped carbon heterostructure for sodium-ion batteries: insights into the charge storage mechanism and enhanced reaction kinetics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3450-3458.	5.2	81
50	Hollow Co-Mo-Se nanosheet arrays derived from metal-organic framework for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2021, 490, 229532.	4.0	79
51	In-Situ Growing Mesoporous CuO/O-Doped g-C ₃ N ₄ Nanospheres for Highly Enhanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32957-32968.	4.0	78
52	One-Pot Synthesis of Catalytically Stable and Active Nanoreactors: Encapsulation of Size-Controlled Nanoparticles within a Hierarchically Macroporous Core-Ordered Mesoporous Shell System. <i>Advanced Materials</i> , 2009, 21, 1368-1372.	11.1	77
53	Large-scale fabrication of graphene-wrapped Fe ₃ O ₄ nanocrystals as cathode materials for lithium ion batteries. <i>Nanoscale</i> , 2013, 5, 6338.	2.8	77
54	Facile synthesis and electrochemical characterization of porous and dense TiO ₂ nanospheres for lithium-ion battery applications. <i>Journal of Power Sources</i> , 2011, 196, 6394-6399.	4.0	75

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55	Highly porous TiO ₂ hollow microspheres constructed by radially oriented nanorods chains for high capacity, high rate and long cycle capability lithium battery. <i>Nano Energy</i> , 2015, 16, 339-349.	8.2	73
56	Synergistic coupling of lamellar MoSe ₂ and SnO ₂ nanoparticles via chemical bonding at interface for stable and high-power sodium-ion capacitors. <i>Chemical Engineering Journal</i> , 2018, 354, 1164-1173.	6.6	73
57	Tracing the slow photon effect in a ZnO inverse opal film for photocatalytic activity enhancement. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5051.	5.2	70
58	Impacts of surface or interface chemistry of ZnSe passivation layer on the performance of CdS/CdSe quantum dot sensitized solar cells. <i>Nano Energy</i> , 2017, 32, 433-440.	8.2	70
59	Carbon-bonded, oxygen-deficient TiO ₂ nanotubes with hybridized phases for superior Na-ion storage. <i>Chemical Engineering Journal</i> , 2018, 350, 201-208.	6.6	70
60	Tubular MoO ₂ organized by 2D assemblies for fast and durable alkali-ion storage. <i>Energy Storage Materials</i> , 2018, 11, 161-169.	9.5	69
61	Hierarchy Design in Metal Oxides as Anodes for Advanced Lithium-ion Batteries. <i>Small Methods</i> , 2018, 2, 1800171.	4.6	69
62	Towards high-performance all-solid-state asymmetric supercapacitors: A hierarchical doughnut-like Ni ₃ S ₂ @PPy core-shell heterostructure on nickel foam electrode and density functional theory calculations. <i>Journal of Power Sources</i> , 2021, 501, 230003.	4.0	67
63	Synthesis and electrochemical properties of MnO ₂ microspheres. <i>Materials Chemistry and Physics</i> , 2008, 109, 399-403.	2.0	66
64	Hollow nitrogen-doped carbon/sulfur@MnO ₂ nanocomposite with structural and chemical dual-encapsulation for lithium-sulfur battery. <i>Chemical Engineering Journal</i> , 2020, 381, 122746.	6.6	66
65	Uniform Nickel Vanadate (Ni ₃ V ₂ O ₈) Nanowire Arrays Organized by Ultrathin Nanosheets with Enhanced Lithium Storage Properties. <i>Scientific Reports</i> , 2016, 6, 20826.	1.6	65
66	Probing significant light absorption enhancement of titania inverse opal films for highly exalted photocatalytic degradation of dye pollutants. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 411-420.	10.8	64
67	Selenium clusters in Zn-glutamate MOF derived nitrogen-doped hierarchically radial-structured microporous carbon for advanced rechargeable Na-Se batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22790-22797.	5.2	62
68	Facile solution growth of vertically aligned ZnO nanorods sensitized with aqueous CdS and CdSe quantum dots for photovoltaic applications. <i>Nanoscale Research Letters</i> , 2011, 6, 340.	3.1	61
69	Bronze TiO ₂ as a cathode host for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 48, 259-266.	7.1	61
70	Porous TiO ₂ urchins for high performance Li-ion battery electrode: facile synthesis, characterization and structural evolution. <i>Electrochimica Acta</i> , 2016, 210, 206-214.	2.6	60
71	Enhanced Gas Sensitivity and Selectivity on Aperture-Controllable 3D Interconnected Macroporous ZnO Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8583-8590.	4.0	60
72	Understanding and suppressing side reactions in Li-air batteries. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2495-2510.	3.2	59

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73	Self-templated synthesis of microporous CoO nanoparticles with highly enhanced performance for both photocatalysis and lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1394-1400.	5.2	58
74	Core-Shell Structured HMX@Polydopamine Energetic Microspheres: Synergistically Enhanced Mechanical, Thermal, and Safety Performances. <i>Polymers</i> , 2019, 11, 568.	2.0	58
75	Constructing an interface synergistic effect from a SnS/MoS ₂ heterojunction decorating N, S co-doped carbon nanosheets with enhanced sodium ion storage performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22593-22600.	5.2	58
76	Facile and Rapid Synthesis of Highly Porous Wirelike TiO ₂ as Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1608-1613.	4.0	57
77	Hierarchically structured porous TiO ₂ spheres constructed by interconnected nanorods as high performance anodes for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2015, 281, 844-851.	6.6	57
78	Engineering 3D bicontinuous hierarchically macro-mesoporous LiFePO ₄ /C nanocomposite for lithium storage with high rate capability and long cycle stability. <i>Scientific Reports</i> , 2016, 6, 25942.	1.6	56
79	Growing NiS ₂ nanosheets on porous carbon microtubes for hybrid sodium-ion capacitors. <i>Journal of Power Sources</i> , 2020, 451, 227737.	4.0	55
80	MoSe ₂ nanosheets as a functional host for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 47, 241-247.	7.1	54
81	Hierarchical Nanotube-Constructed Porous TiO ₂ -B Spheres for High Performance Lithium Ion Batteries. <i>Scientific Reports</i> , 2015, 5, 11557.	1.6	53
82	Unique walnut-shaped porous MnO ₂ /C nanospheres with enhanced reaction kinetics for lithium storage with high capacity and superior rate capability. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4264-4272.	5.2	53
83	Coherent TiO ₂ /BaTiO ₃ heterostructure as a functional reservoir and promoter for polysulfide intermediates. <i>Chemical Communications</i> , 2018, 54, 12250-12253.	2.2	53
84	A MoS ₂ @SnS heterostructure for sodium-ion storage with enhanced kinetics. <i>Nanoscale</i> , 2020, 12, 14689-14698.	2.8	53
85	Annealed vanadium oxide nanowires and nanotubes as high performance cathode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14099.	5.2	52
86	Phase-junction Ag/TiO ₂ nanocomposite as photocathode for H ₂ generation. <i>Journal of Materials Science and Technology</i> , 2021, 83, 179-187.	5.6	52
87	Hierarchical nanosheet-constructed yolk-shell TiO ₂ porous microspheres for lithium batteries with high capacity, superior rate and long cycle capability. <i>Nanoscale</i> , 2015, 7, 12979-12989.	2.8	51
88	Cocatalyzing Pt/PtO Phase-Junction Nanodots on Hierarchically Porous TiO ₂ for Highly Enhanced Photocatalytic Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29687-29698.	4.0	51
89	A flexible, hierarchically porous PANI/MnO ₂ network with fast channels and an extraordinary chemical process for stable fast-charging lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2741-2751.	5.2	50
90	Facile and fast synthesis of porous TiO ₂ spheres for use in lithium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2014, 417, 144-151.	5.0	49

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91	Enhancing sodium-ion storage performance of MoO ₂ /N-doped carbon through interfacial Mo-N-C bond. <i>Science China Materials</i> , 2021, 64, 85-95.	3.5	48
92	Rutile TiO ₂ inverse opal with photonic bandgap in the UV-visible range. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 43-48.	5.0	47
93	Facile synthesis of hierarchical and porous V ₂ O ₅ microspheres as cathode materials for lithium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2014, 418, 74-80.	5.0	47
94	Three-Dimensional (3D) Bicontinuous Hierarchically Porous Mn ₂ O ₃ Single Crystals for High Performance Lithium-Ion Batteries. <i>Scientific Reports</i> , 2015, 5, 14686.	1.6	47
95	Microwave-assisted hydrothermal synthesis of porous SnO ₂ nanotubes and their lithium ion storage properties. <i>Journal of Solid State Chemistry</i> , 2012, 190, 104-110.	1.4	46
96	MoSe ₂ nanoplatelets with enriched active edge sites for superior sodium-ion storage and enhanced alkaline hydrogen evolution activity. <i>Chemical Engineering Journal</i> , 2020, 382, 123047.	6.6	46
97	Unprecedented and highly stable lithium storage capacity of (001) faceted nanosheet-constructed hierarchically porous TiO ₂ /rGO hybrid architecture for high-performance Li-ion batteries. <i>National Science Review</i> , 2020, 7, 1046-1058.	4.6	46
98	Enhanced performance by incorporation of zinc oxide nanowire array for organic-inorganic hybrid solar cells. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	43
99	Smaller Pt particles supported on mesoporous bowl-like carbon for highly efficient and stable methanol oxidation and oxygen reduction reaction. <i>Journal of Power Sources</i> , 2013, 243, 48-53.	4.0	43
100	Probing and suppressing voltage fade of Li-rich Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ cathode material for lithium-ion battery. <i>Electrochimica Acta</i> , 2019, 318, 875-882.	2.6	42
101	Optimizing inner voids in yolk-shell TiO ₂ nanostructure for high-performance and ultralong-life lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021, 417, 129241.	6.6	42
102	Chemistry of Trimethyl Aluminum: A Spontaneous Route to Thermally Stable 3D Crystalline Macroporous Alumina Foams with a Hierarchy of Pore Sizes. <i>Chemistry of Materials</i> , 2010, 22, 3251-3258.	3.2	41
103	Understanding Dual-Polar Group Functionalized COFs for Accelerating Li ⁺ Ion Transport and Dendrite-Free Deposition in Lithium Metal Anodes. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	41
104	Phases Hybridizing and Hierarchical Structuring of Mesoporous TiO ₂ Nanowire Bundles for High-Rate and High-Capacity Lithium Batteries. <i>Advanced Science</i> , 2015, 2, 1500070.	5.6	39
105	Hierarchical TiO ₂ /C nanocomposite monoliths with a robust scaffolding architecture, mesopore-macropore network and TiO ₂ -C heterostructure for high-performance lithium ion batteries. <i>Nanoscale</i> , 2016, 8, 10928-10937.	2.8	38
106	Facile synthesis and electrochemical characterization of hierarchical Î±-MnO ₂ spheres. <i>Journal of Alloys and Compounds</i> , 2008, 466, 250-257.	2.8	37
107	Stabilizing intermediate phases <i>via</i> the efficient confinement effects of the SnS ₂ -SPAN fibre composite for ultra-stable half/full sodium/potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11449-11457.	5.2	36
108	Macroporous ZnO/ZnS/CdS composite spheres as efficient and stable photocatalysts for solar-driven hydrogen generation. <i>Journal of Materials Science</i> , 2017, 52, 11124-11134.	1.7	35

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109	Boosting Lithium-Ion Storage Capability in CuO Nanosheets via Synergistic Engineering of Defects and Pores. <i>Frontiers in Chemistry</i> , 2018, 6, 428.	1.8	35
110	A new catalyst for urea oxidation: NiCo ₂ S ₄ nanowires modified 3D carbon sponge. <i>Journal of Energy Chemistry</i> , 2020, 50, 195-205.	7.1	34
111	Melamine-based polymer networks enabled N, O, S Co-doped defect-rich hierarchically porous carbon nanobelts for stable and long-cycle Li-ion and Li-Se batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 60-69.	5.0	34
112	Facile synthesis of well-shaped spinel LiNi _{0.5} Mn _{1.5} O ₄ nanoparticles as cathode materials for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 2785-2792.	1.7	32
113	Coherent nanoscale cobalt/cobalt oxide heterostructures embedded in porous carbon for the oxygen reduction reaction. <i>RSC Advances</i> , 2018, 8, 28625-28631.	1.7	32
114	Insight into the positive effect of porous hierarchy in S/C cathodes on the electrochemical performance of Li-S batteries. <i>Nanoscale</i> , 2018, 10, 11861-11868.	2.8	32
115	Topological Insulator-Assisted MoSe ₂ /Bi ₂ Se ₃ Heterostructure: Achieving Fast Reaction Kinetics Toward High Rate Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2021, 8, 697-704.	1.7	32
116	Tunable macro-mesoporous ZnO nanostructures for highly sensitive ethanol and acetone gas sensors. <i>RSC Advances</i> , 2015, 5, 101910-101916.	1.7	31
117	Active faceted Cu ₂ O hollow nanospheres for unprecedented adsorption and visible-light degradation of pollutants. <i>Journal of Colloid and Interface Science</i> , 2020, 565, 207-217.	5.0	31
118	Interfacial engineering endowing energetic co-particles with high density and reduced sensitivity. <i>Chemical Engineering Journal</i> , 2020, 387, 124209.	6.6	31
119	Rugated porous Fe ₃ O ₄ thin films as stable binder-free anode materials for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 22692.	6.7	30
120	Grain Boundaries Enriched Hierarchically Mesoporous MnO/Carbon Microspheres for Superior Lithium Ion Battery Anode. <i>Electrochimica Acta</i> , 2016, 222, 561-569.	2.6	30
121	Facile synthesis of hierarchically structured manganese oxides as anode for lithium-ion batteries. <i>Journal of Central South University</i> , 2019, 26, 1481-1492.	1.2	29
122	Fine nanoparticles of Al-SnO ₂ prepared by a co-precipitation route in water/oil microemulsion. <i>Journal of Alloys and Compounds</i> , 2008, 462, 42-46.	2.8	27
123	Seeking a novel energetic co-crystal strategy through the interfacial self-assembly of CL-20 and HMX nanocrystals. <i>CrystEngComm</i> , 2020, 22, 61-67.	1.3	26
124	Synthesis and electrochemical properties of LiMn ₂ O ₄ and LiCoO ₂ -coated LiMn ₂ O ₄ cathode materials. <i>Journal of Alloys and Compounds</i> , 2012, 517, 186-191.	2.8	25
125	The mediated synthesis of Fe ₃ O ₄ nanocrystals through (NH ₄) ₃ FeF ₆ precursors as the cathode material for high power lithium ion batteries. <i>Electrochimica Acta</i> , 2017, 253, 545-553.	2.6	25
126	Nitrogen-doped graphene in-situ modifying MnO nanoparticles for highly improved lithium storage. <i>Applied Surface Science</i> , 2019, 473, 893-901.	3.1	25

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127	Dual interface coupled molybdenum diselenide for high-performance sodium ion batteries and capacitors. <i>Journal of Power Sources</i> , 2020, 446, 227298.	4.0	25
128	Interwoven scaffolded porous titanium oxide nanocubes/carbon nanotubes framework for high-performance sodium-ion battery. <i>Journal of Energy Chemistry</i> , 2021, 59, 38-46.	7.1	25
129	Regulating safety and energy release of energetic materials by manipulation of molybdenum disulfide phase. <i>Chemical Engineering Journal</i> , 2021, 411, 128603.	6.6	25
130	Macro/Mesoporous Carbon/Defective TiO ₂ Composite as a Functional Host for Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 2573-2579.	2.5	24
131	Three-dimensional ordered hierarchically porous carbon materials for high performance Li-Se battery. <i>Journal of Energy Chemistry</i> , 2022, 68, 624-636.	7.1	23
132	Synchronous Defect and Interface Engineering of NiMoO ₄ Nanowire Arrays for High-Performance Supercapacitors. <i>Nanomaterials</i> , 2022, 12, 1094.	1.9	23
133	Hollow Cu ₂ O microspheres with two active {111} and {110} facets for highly selective adsorption and photodegradation of anionic dye. <i>RSC Advances</i> , 2015, 5, 55520-55526.	1.7	22
134	Multilayer Deposition of Metal-Phenolic Networks for Coating of Energetic Crystals: Modulated Surface Structures and Highly Enhanced Thermal Stability. <i>ACS Applied Energy Materials</i> , 2020, 3, 11091-11098.	2.5	21
135	NiS ₂ wrapped into graphene with strong Ni-O interaction for advanced sodium and potassium ion batteries. <i>Electrochimica Acta</i> , 2021, 369, 137704.	2.6	21
136	Materials with extreme properties: Their structuring and applications. <i>Vacuum</i> , 2012, 86, 575-585.	1.6	20
137	In Situ Structure Characterization in Slot-Die-Printed All-Polymer Solar Cells with Efficiency Over 9%. <i>Solar Rrl</i> , 2019, 3, 1900032.	3.1	20
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