

Weixin Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/947480/publications.pdf>

Version: 2024-02-01

153
papers

6,531
citations

61945

43
h-index

76872

74
g-index

157
all docs

157
docs citations

157
times ranked

7997
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Crystalline Scroll-Type Nanotube Arrays of Copper Hydroxide Synthesized at Room Temperature. <i>Advanced Materials</i> , 2003, 15, 822-825.	11.1	336
2	Synthesis of Cu(OH) ₂ and CuO Nanoribbon Arrays on a Copper Surface. <i>Langmuir</i> , 2003, 19, 5898-5903.	1.6	233
3	Controllable preparation of multishelled NiO hollow nanospheres via layer-by-layer self-assembly for supercapacitor application. <i>Journal of Power Sources</i> , 2014, 246, 24-31.	4.0	232
4	Controlled Reactions on a Copper Surface: Synthesis and Characterization of Nanostructured Copper Compound Films. <i>Inorganic Chemistry</i> , 2003, 42, 5005-5014.	1.9	202
5	Solution Phase Synthesis of Cu(OH) ₂ Nanoribbons by Coordination Self-Assembly Using Cu ₂ S Nanowires as Precursors. <i>Nano Letters</i> , 2002, 2, 1397-1401.	4.5	192
6	Large-scale synthesis of ¹² -MnO ₂ nanorods and their rapid and efficient catalytic oxidation of methylene blue dye. <i>Catalysis Communications</i> , 2006, 7, 408-412.	1.6	183
7	Controlled synthesis of Mn ₃ O ₄ nanocrystallites and MnOOH nanorods by a solvothermal method. <i>Journal of Crystal Growth</i> , 2004, 263, 394-399.	0.7	172
8	Nanorods of manganese oxides: Synthesis, characterization and catalytic application. <i>Journal of Solid State Chemistry</i> , 2006, 179, 679-684.	1.4	172
9	Temperature dependence of field emission from cupric oxide nanobelt films. <i>Applied Physics Letters</i> , 2003, 83, 746-748.	1.5	165
10	An effective etching-induced coating strategy to shield LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ electrode materials by LiAlO ₂ . <i>Journal of Power Sources</i> , 2019, 412, 246-254.	4.0	144
11	A novel process to recycle spent LiFePO ₄ for synthesizing LiFePO ₄ /C hierarchical microflowers. <i>Electrochimica Acta</i> , 2016, 190, 134-140.	2.6	140
12	Large-scale Synthesis of Long Crystalline Cu ₂ Se Nanowire Bundles by Water Evaporation-Induced Self-Assembly and Their Application in Gas Sensing. <i>Advanced Functional Materials</i> , 2009, 19, 1759-1766.	7.8	137
13	Controlled synthesis of CuO nanostructures by a simple solution route. <i>Journal of Solid State Chemistry</i> , 2007, 180, 1390-1396.	1.4	127
14	Synthesis and Characterization of Uniform Arrays of Copper Sulfide Nanorods Coated with Nanolayers of Polypyrrole. <i>Langmuir</i> , 2003, 19, 4420-4426.	1.6	110
15	Large-Scale Synthesis and Phase Transformation of CuSe, CuInSe ₂ , and CuInSe ₂ /CuInS ₂ Core/Shell Nanowire Bundles. <i>ACS Nano</i> , 2010, 4, 1845-1850.	7.3	105
16	Hierarchical Self-Assembly of Microscale Cogwheel-like Superstructures for Enhanced Performance in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2011, 21, 3516-3523.	7.8	98
17	In Situ Fabrication of Inorganic Nanowire Arrays Grown from and Aligned on Metal Substrates. <i>Accounts of Chemical Research</i> , 2009, 42, 1617-1627.	7.6	95
18	Weak Ferromagnetism and Dynamic Magnetic Behavior in a Single End-to-End Azide-Bridged Nickel(II) Chain. <i>Advanced Materials</i> , 2006, 18, 2852-2856.	11.1	92

#	ARTICLE	IF	CITATIONS
19	A General and Mild Approach to Controllable Preparation of Manganese-Based Micro- and Nanostructured Bars for High Performance Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3667-3671.	7.2	89
20	Nanostructured Li ₃ V ₂ (PO ₄) ₃ cathode supported on reduced graphene oxide for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 239, 475-482.	4.0	87
21	Hydrothermal synthesis of morphology-controlled LiFePO ₄ cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2012, 220, 317-323.	4.0	82
22	Growth of novel nanostructured copper oxide (CuO) films on copper foil. <i>Journal of Crystal Growth</i> , 2006, 291, 479-484.	0.7	79
23	Stepwise co-precipitation to synthesize LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ one-dimensional hierarchical structure for lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 272, 144-151.	4.0	78
24	Replacement/Etching Route to ZnSe Nanotube Arrays and Their Enhanced Photocatalytic Activities. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4208-4214.	1.8	75
25	Aluminum and fluorine co-doping for promotion of stability and safety of lithium-rich layered cathode material. <i>Electrochimica Acta</i> , 2017, 236, 171-179.	2.6	75
26	One-Pot Room Temperature Synthesis of Cu ₂ O/Ag Composite Nanospheres with Enhanced Visible-Light-Driven Photocatalytic Performance. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16316-16323.	1.8	74
27	Electric field driven de-lithiation: A strategy towards comprehensive and efficient recycling of electrode materials from spent lithium ion batteries. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119634.	10.8	74
28	Ostensibly phosphatized NiAl LDHs nanoflowers with remarkable charge storage property for asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2020, 577, 115-126.	5.0	68
29	Synthesis of nanocrystalline Ag ₂ S in aqueous solution. <i>Solid State Ionics</i> , 2000, 130, 111-114.	1.3	65
30	Engineering superhydrophilic/superaerophobic hierarchical structures of Co-CH@NiFe-LDH/NF to boost the oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 422, 130123.	6.6	62
31	Promotion of H ₂ O ₂ decomposition activity over γ -MnO ₂ nanorod catalysts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 304, 60-66.	2.3	61
32	Low temperature synthesis of nanocrystalline Mn ₃ O ₄ by a solvothermal method. <i>Solid State Ionics</i> , 1999, 117, 331-335.	1.3	60
33	An inward replacement/etching route to synthesize double-walled Cu ₇ S ₄ nanoboxes and their enhanced performances in ammonia gas sensing. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6263.	1.3	59
34	Synthesis of porous and hollow microspheres of nanocrystalline Mn ₂ O ₃ . <i>Chemical Physics Letters</i> , 2006, 418, 46-49.	1.2	58
35	Enhanced performance of LiFePO ₄ through hydrothermal synthesis coupled with carbon coating and cupric ion doping. <i>Electrochimica Acta</i> , 2011, 56, 5667-5672.	2.6	56
36	A new lithium-ion battery: CuO nanorod array anode versus spinel LiNi _{0.5} Mn _{1.5} O ₄ cathode. <i>Journal of Power Sources</i> , 2015, 273, 561-565.	4.0	49

#	ARTICLE	IF	CITATIONS
37	A hydrothermal synthesis of orthorhombic nanocrystalline cobalt diselenide CoSe ₂ . <i>Materials Research Bulletin</i> , 2000, 35, 2403-2408.	2.7	48
38	Lithography inside Cu(OH) ₂ Nanorods: A General Route to Controllable Synthesis of the Arrays of Copper Chalcogenide Nanotubes with Double Walls. <i>Inorganic Chemistry</i> , 2008, 47, 699-704.	1.9	48
39	A phosphatized NiCo LDH 1D dendritic electrode for high energy asymmetric supercapacitors. <i>Dalton Transactions</i> , 2019, 48, 14853-14863.	1.6	48
40	A Redox Reaction To Synthesize Nanocrystalline Cu _{2-x} Se in Aqueous Solution. <i>Inorganic Chemistry</i> , 2000, 39, 1838-1839.	1.9	47
41	Water-evaporation-induced self-assembly of MnO ₂ hierarchical hollow nanospheres and their applications in ammonia gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2012, 162, 292-299.	4.0	47
42	An aqueous approach to ZnSe and CdSe semiconductor nanocrystals. <i>Materials Chemistry and Physics</i> , 1999, 60, 99-102.	2.0	46
43	Synthesis and Characterization of CdIn ₂ S ₄ Nanorods by Converting CdS Nanorods via the Hydrothermal Route. <i>Inorganic Chemistry</i> , 2001, 40, 3130-3133.	1.9	46
44	A review on cathode materials for advanced lithium ion batteries: microstructure designs and performance regulations. <i>Nanotechnology</i> , 2020, 31, 012001.	1.3	45
45	Effects of light illumination on field emission from CuO nanobelt arrays. <i>Applied Physics Letters</i> , 2005, 86, 151107.	1.5	44
46	A highly atom-efficient strategy to synthesize reduced graphene oxide-Mn ₃ O ₄ nanoparticles composites for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2016, 685, 949-956.	2.8	42
47	Room temperature growth of nanocrystalline tin (II) selenide from aqueous solution. <i>Journal of Crystal Growth</i> , 2000, 217, 157-160.	0.7	40
48	Effect of structural parameter on field emission properties of semiconducting copper sulphide nanowire films. <i>Journal of Applied Physics</i> , 2003, 93, 1774-1777.	1.1	39
49	Facile synthesis of CuO hollow nanospheres assembled by nanoparticles and their electrochemical performance. <i>Applied Surface Science</i> , 2011, 258, 1317-1321.	3.1	39
50	Cosurfactant-mediated microemulsion to free-standing hierarchical CuO arrays on copper substrates as anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14368.	5.2	39
51	Recent advances in high performance conducting solid polymer electrolytes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021, 486, 229378.	4.0	39
52	CoP Microscale Prism-like Superstructure Arrays on Ni Foam as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Inorganic Chemistry</i> , 2020, 59, 8522-8531.	1.9	38
53	Synthesis of nanocrystalline lead chalcogenides PbE (E = S, Se, or Te) from alkaline aqueous solutions. <i>Materials Research Bulletin</i> , 2000, 35, 2009-2015.	2.7	37
54	Solvothermal synthesis of hierarchical LiFePO ₄ microflowers as cathode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 10176-10182.	4.0	37

#	ARTICLE	IF	CITATIONS
55	Ultrathin NiMn-LDH nanosheet structured electrocatalyst for enhanced electrocatalytic urea oxidation. <i>Applied Catalysis A: General</i> , 2021, 614, 118049.	2.2	36
56	Facile microemulsion synthesis of porous CuO nanosphere film and its application in lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 113, 63-68.	2.6	35
57	Fast and highly reversible Na ⁺ intercalation/extraction in Zn/Mg dual-doped P2-Na _{0.67} MnO ₂ cathode material for high-performance Na-ion batteries. <i>Nano Research</i> , 2021, 14, 3531-3537.	5.8	35
58	Controlled synthesis of cuprous oxide nanospheres and copper sulfide hollow nanospheres. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 840-846.	1.9	34
59	Fabrication of Architectures with Dual Hollow Structures: Arrays of Cu ₂ O Nanotubes Organized by Hollow Nanospheres. <i>Crystal Growth and Design</i> , 2009, 9, 4524-4528.	1.4	34
60	Facile synthesis of mesoporous MnO ₂ /C spheres for supercapacitor electrodes. <i>Chemical Engineering Journal</i> , 2014, 242, 397-403.	6.6	34
61	Self-Sustained Cycle of Hydrolysis and Etching at Solution/Solid Interfaces: A General Strategy To Prepare Metal Oxide Micro/Nanostructured Arrays for High-Performance Electrodes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3932-3936.	7.2	34
62	A room temperature chemical route to nanocrystalline PbS semiconductor. <i>Materials Letters</i> , 1999, 40, 255-258.	1.3	31
63	Low temperature growth of bismuth sulfide nanorods by a hydrothermal method. <i>Solid State Communications</i> , 2001, 119, 143-146.	0.9	31
64	Synthesis of Ti ³⁺ self-doped TiO ₂ nanocrystals based on Le Chatelier's principle and their application in solar light photocatalysis. <i>RSC Advances</i> , 2016, 6, 74376-74383.	1.7	31
65	Solvothermal Synthesis of Hierarchical LiFePO ₄ Microplates with Exposed (010) Faces as Cathode Materials for Lithium Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 12209-12215.	1.8	30
66	A Replacement Etching Route to CuSe with a Hierarchical Hollow Structure for Enhanced Performance in Lithium Ion Batteries. <i>Journal of Electronic Materials</i> , 2014, 43, 359-368.	1.0	30
67	Mesoscale organization of Cu ₇ S ₄ nanowires: Formation of novel sheath-like nanotube array. <i>Chemical Physics Letters</i> , 2007, 434, 256-259.	1.2	28
68	A solvothermal route to wurtzite ZnSe nanoparticles. <i>Journal of Materials Research</i> , 2000, 15, 629-632.	1.2	27
69	An Outward Coating Route to CuO/MnO ₂ Nanorod Array Films and Their Efficient Catalytic Oxidation of Acid Fuchsin Dye. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9608-9615.	1.8	27
70	Vertically aligned tungsten oxide nanorod film with enhanced performance in photoluminescence humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 708-713.	4.0	27
71	Chemical replacement route to Cu ₂ xSe-coated CuO nanotube array anode for enhanced performance in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5800.	5.2	26
72	Preparation and optical properties of Cu ₂ O hollow microsphere film and hollow nanosphere powder via a simple liquid reduction approach. <i>Applied Surface Science</i> , 2007, 253, 6063-6067.	3.1	25

#	ARTICLE	IF	CITATIONS
73	An improved solid-state reaction route to Mg ²⁺ -doped LiFePO ₄ /C cathode material for Li-ion battery. <i>Ionics</i> , 2014, 20, 169-174.	1.2	25
74	Kinetically Controlled Synthesis of LiNi _{0.5} Mn _{1.5} O ₄ Micro- and Nanostructured Hollow Spheres as High-Rate Cathode Materials for Lithium Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 9352-9361.	1.8	25
75	PVP-bridged $\hat{1}^3$ -LiAlO ₂ nanolayer on Li _{1.2} Ni _{0.182} Co _{0.08} Mn _{0.538} O ₂ cathode materials for improving the rate capability and cycling stability. <i>Chemical Engineering Science</i> , 2021, 229, 116126.	1.9	25
76	Thermally activated carbonâ€“nitrogen vacancies in double-shelled NiFe Prussian blue analogue nanocages for enhanced electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12734-12745.	5.2	25
77	Room Temperature Synthesis of Cubic Nanocrystalline CdSe in Aqueous Solution. <i>Journal of Solid State Chemistry</i> , 2000, 151, 241-244.	1.4	24
78	A hydrothermal method for low-temperature growth of nanocrystalline pyrite nickel diselenide. <i>Journal of Crystal Growth</i> , 2000, 209, 213-216.	0.7	24
79	Gallium nitride synthesis from sodium azide using iodine as a heat sink and diluent. <i>Chemical Physics Letters</i> , 2002, 351, 229-234.	1.2	24
80	An inward replacement/etching route to controllable fabrication of zinc sulfide nanotube arrays for humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2012, 165, 62-67.	4.0	24
81	Solid-state polymer electrolytes with polypropylene separator-reinforced sandwich structure for room-temperature lithium ion batteries. <i>Journal of Membrane Science</i> , 2021, 638, 119713.	4.1	24
82	ZnMn ₂ O ₄ nanorods: an effective Fenton-like heterogeneous catalyst with t _{2g} ³ e _g ¹ electronic configuration. <i>Catalysis Science and Technology</i> , 2018, 8, 2557-2566.	2.1	23
83	Ultrafine Ni nanoparticles anchored on carbon nanofibers as highly efficient bifunctional air electrodes for flexible solid-state zinc-air batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 627-636.	5.0	23
84	A Novel Approach to Wellâ€“Aligned $\langle \text{TiO} \rangle_{2}$ Nanotube Arrays and Their Enhanced Photocatalytic Performances. <i>AIChE Journal</i> , 2013, 59, 2134-2144.	1.8	22
85	Hierarchical micro/nanostructured WO ₃ with structural water for high-performance pseudocapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 765, 489-496.	2.8	22
86	Near-Equilibrium Control of Li ₂ TiO ₃ Nanoscale Layer Coated on LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Materials for Enhanced Electrochemical Performance. <i>Inorganic Chemistry</i> , 2019, 58, 15498-15506.	1.9	21
87	Synthesis and characterization of nanostructured Li ₂ MnO ₃ from nanostructured MnOOH precursors. <i>Solid State Communications</i> , 2004, 131, 441-445.	0.9	20
88	An optical humidity sensor based on Li ₃ PO ₄ hollow nanospheres. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 226-231.	4.0	19
89	New strategy to the controllable synthesis of CuInS ₂ hollow nanospheres and their applications in lithium ion batteries. <i>Journal of Solid State Chemistry</i> , 2012, 186, 58-63.	1.4	19
90	pH-controlled assembly of three-dimensional tungsten oxide hierarchical nanostructures for catalytic oxidation of cyclohexene to adipic acid. <i>CrystEngComm</i> , 2016, 18, 8688-8695.	1.3	19

#	ARTICLE	IF	CITATIONS
91	Photoelectrochemistry of Pure and Core/Sheath Nanowire Arrays of Cu ₂ S Directly Grown on Copper Electrodes. <i>Journal of the Electrochemical Society</i> , 2005, 152, G220.	1.3	18
92	Nanostructured hollow spheres of hydroxyapatite: preparation and potential application in drug delivery. <i>Frontiers of Chemical Science and Engineering</i> , 2012, 6, 246-252.	2.3	18
93	Oriented attachment growth of ultra-long Ag ₂ Se crystalline nanowires via water evaporation-induced self-assembly. <i>CrystEngComm</i> , 2013, 15, 5127.	1.3	18
94	A facile synthetic protocol to construct 1D Zn-Mn-Oxide nanostructures with tunable compositions for high-performance lithium storage. <i>Journal of Alloys and Compounds</i> , 2017, 720, 376-382.	2.8	18
95	Surface-Restructured Core/Shell NiO@Co ₃ O ₄ Nanocomposites as Efficient Catalysts for the Oxygen Evolution Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16581-16587.	1.8	18
96	Constructing P-CoMoO ₄ @NiCoP heterostructure nanoarrays on Ni foam as efficient bifunctional electrocatalysts for overall water splitting. <i>Nano Materials Science</i> , 2023, 5, 278-286.	3.9	18
97	Î ² -MnO ₂ nanorods: A new and efficient catalyst for isoamyl acetate synthesis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 356, 134-139.	2.3	17
98	Hydrolysis-Coupled Redox Reaction to 3D Cu/Fe ₃ O ₄ Nanorod Array Electrodes for High-Performance Lithium-Ion Batteries. <i>Inorganic Chemistry</i> , 2017, 56, 7657-7667.	1.9	17
99	Beyond conventional sodium-ion storage mechanisms: a combinational intercalation/conversion reaction mechanism in Ni-ion modified hydrated vanadate for high-rate sodium-ion storage. <i>Energy Storage Materials</i> , 2022, 47, 579-590.	9.5	17
100	Different types of MnO ₂ recovered from spent LiMn ₂ O ₄ batteries and their application in electrochemical capacitors. <i>Journal of Materials Science</i> , 2013, 48, 2512-2519.	1.7	16
101	An efficient route to Cu ₂ O nanorod array film for high-performance Li-ion batteries. <i>Thin Solid Films</i> , 2016, 608, 79-87.	0.8	16
102	A fluoride ion-mediated continuous etching/redeposition strategy to synthesize Si nanocomposites with appropriate SiO ₂ coating layers for Li-ion batteries. <i>Chemical Communications</i> , 2018, 54, 12447-12450.	2.2	16
103	Ultrahigh Capacity Retention of a Li ₂ ZrO ₃ -Coated Ni-Rich LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Material through Covalent Interfacial Engineering. <i>ACS Applied Energy Materials</i> , 2021, 4, 13785-13795.	2.5	16
104	Fabrication and optical properties of ZnO nanostructured thin films via mechanical oscillation and hydrothermal method. <i>Thin Solid Films</i> , 2008, 516, 5974-5980.	0.8	15
105	Preparation of mesoporous MnO ₂ /C catalyst for n-hexyl acetate synthesis. <i>Applied Surface Science</i> , 2012, 258, 4756-4763.	3.1	15
106	Facile synthesis of Î±-MnO ₂ microneeds composed of nanowires and their enhanced adsorption to Congo red. <i>Frontiers of Chemical Science and Engineering</i> , 2014, 8, 64-72.	2.3	15
107	Preparation of ZnSe films through chemical solution reduction process. <i>Materials Research Bulletin</i> , 1999, 34, 1637-1641.	2.7	14
108	Solvothermal route to Bi ₃ Se ₄ nanorods at low temperature. <i>Journal of Materials Research</i> , 2001, 16, 3361-3365.	1.2	14

#	ARTICLE	IF	CITATIONS
109	Hydrothermal synthesis of marcasite iron ditelluride FeTe ₂ nanorods at low temperature. <i>Materials Letters</i> , 2001, 47, 367-370.	1.3	12
110	Synthesis of nanocrystalline marcasite iron ditelluride FeTe ₂ in aqueous solution. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 79, 244-246.	1.7	12
111	A chemical lithography route to Bi ₂ S ₃ nanotubes. <i>Applied Surface Science</i> , 2011, 257, 6239-6242.	3.1	12
112	Large-scale synthesis of self-assembled ultralong cannonite nanobelt film as a visible-light photocatalyst. <i>RSC Advances</i> , 2015, 5, 8537-8543.	1.7	12
113	Sequential precipitation induced interdiffusion: a general strategy to synthesize microtubular materials for high performance lithium ion battery electrodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18430-18437.	5.2	12
114	Lithium hydroxyphenyl propanesulfonate imparts composite solid polymer electrolytes with ultrahigh ionic conductivity for dendrite free lithium batteries. <i>Chemical Engineering Journal</i> , 2022, 435, 134775.	6.6	12
115	A Simple Synthesis of Nanocrystalline Binary Metal Chalcogenides in Alkaline Aqueous Solution. <i>Journal of Solid State Chemistry</i> , 2001, 161, 184-189.	1.4	11
116	Novel conducting solid polymer electrolytes with a zwitterionic structure boosting ionic conductivity and retarding lithium dendrite formation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22878-22891.	5.2	11
117	Exfoliating spent cathode materials with robust interlayer interactions into atomic-thin nanosheets for boosting the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3359-3372.	5.2	11
118	Hydrothermal synthesis of Fe ₅ (PO ₄) ₄ (OH)3·2H ₂ O microflowers for fabricating high-performance LiFePO ₄ /C composites. <i>Ionics</i> , 2014, 20, 653-658.	1.2	10
119	Oriented-Redox Induced Uniform MnO ₂ Coating on Ni ₃ S ₂ Nanorod Arrays as a Stable Anode for Enhanced Performances of Lithium Ion Battery. <i>Langmuir</i> , 2020, 36, 13555-13562.	1.6	10
120	Effects of gradient concentration on the microstructure and electrochemical performance of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode materials. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 988-996.	2.3	10
121	Recent Advances of Mesoscale-Structured Cathode Materials for High Energy Density Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 2962-2975.	2.5	10
122	A Green Route to Cyclohexanone: Selective Oxidation of Cyclohexanol Promoted by Non-precious Catalyst of h-WO ₃ Nanorods. <i>Catalysis Letters</i> , 2016, 146, 1283-1290.	1.4	9
123	Stepwise co-precipitation to the synthesis of urchin-like NiCo ₂ O ₄ hollow nanospheres as high performance anode material. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 1095-1104.	1.5	9
124	An integrated highly stable anode enabled by carbon nanotube-reinforced all-carbon binder for enhanced performance in lithium-ion battery. <i>Carbon</i> , 2021, 182, 749-757.	5.4	9
125	Construction of a hetero-epitaxial nanostructure at the interface of Li-rich cathode materials to boost their rate capability and cycling performances. <i>Nanoscale</i> , 2021, 13, 20488-20497.	2.8	9
126	Double-Layer Solid Composite Electrolytes Enabling Improved Room-Temperature Cycling Performance for High-Voltage Lithium Metal Batteries. <i>ACS Omega</i> , 2022, 7, 994-1002.	1.6	9

#	ARTICLE	IF	CITATIONS
127	An optical humidity sensor based on Ag nanodendrites. <i>Applied Surface Science</i> , 2013, 280, 920-925.	3.1	8
128	A carbothermal reduction method for enhancing the electrochemical performance of LiFePO ₄ /C composite cathode materials. <i>Ionics</i> , 2013, 19, 235-243.	1.2	8
129	A novel hydrolytic reaction to morphology-controlled TiO ₂ micro/nanostructures for enhanced photocatalytic performances. <i>RSC Advances</i> , 2015, 5, 43630-43638.	1.7	8
130	A galvanic replacement reaction to synthesise metal/ZnO heterostructured films on zinc substrates for enhanced photocatalytic performance. <i>RSC Advances</i> , 2016, 6, 103594-103600.	1.7	8
131	In-situ preparation of Fe ₂ O ₃ hierarchical arrays on stainless steel substrate for high efficient catalysis. <i>Journal of Solid State Chemistry</i> , 2017, 246, 278-283.	1.4	8
132	Synthesis and ammonia sensing property of Ag ₃ CuS ₂ nanocages obtained from Cu ₇ S ₄ 18-facet hollow nanopolyhedra. <i>Journal of Crystal Growth</i> , 2009, 311, 3347-3351.	0.7	7
133	In-situ design and construction of lithium-ion battery electrodes on metal substrates with enhanced performances: A brief review. <i>Chinese Journal of Chemical Engineering</i> , 2016, 24, 48-52.	1.7	7
134	Preferential Co substitution on Ni sites in Ni-Fe oxide arrays enabling large-current-density alkaline oxygen evolution. <i>Chemical Science</i> , 2022, 13, 7332-7340.	3.7	7
135	Nickel nanoparticles modified MnO nanosheet arrays for high-performance supercapacitor with long-lasting and sustainable capacitance increase. <i>Electrochimica Acta</i> , 2021, 383, 138353.	2.6	6
136	Sandwich-like solid composite electrolytes employed as bifunctional separators for safe lithium metal batteries with excellent cycling performance. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4660-4670.	5.2	6
137	Modification of LiNi _{0.8} Co _{0.1} Mn _{0.1} cathode with Al-Screened LiPO ₃ to enhance interfacial stability and ionic dynamics. <i>Chemical Engineering Journal</i> , 2022, 446, 137051.	6.6	6
138	A General and Mild Approach to Controllable Preparation of Manganese-Based Micro- and Nanostructured Bars for High Performance Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2016, 128, 3731-3735.	1.6	5
139	Template-free synthesis of single-/double-walled TiO ₂ nanovesicles: Potential photocatalysts for engineering application. <i>AIChE Journal</i> , 2015, 61, 1478-1482.	1.8	4
140	Ca/Ni Codoping Enables the Integration of High-Rate and High-Capacity Zn-Ion Storage Performances for Layered Hydrated Vanadate. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 4212-4221.	1.8	4
141	Coupling High Rate Capability and High Capacity in an Intercalation-Type Sodium-Ion Hybrid Capacitor Anode Material of Hydrated Vanadate via Interlayer-Cation Engineering. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17547-17559.	4.0	4
142	Hydrothermal synthesis of crystalline $\sqrt{3}\times\sqrt{3}$ -MnO ₂ nanorods via $\sqrt{3}$ -MnOOH nanorod precursors. <i>Frontiers of Chemical Engineering in China</i> , 2007, 1, 365-371.	0.6	3
143	A chemical etching route to controllable fabrication of TiO ₂ hollow nanospheres for enhancing their photocatalytic activity. <i>Frontiers of Chemical Science and Engineering</i> , 2013, 7, 192-201.	2.3	3
144	Multi-shelled Ni ₆ MnO ₈ hollow microspheres for high-performance supercapacitors. <i>Materials Research Express</i> , 2020, 7, 065502.	0.8	3

#	ARTICLE	IF	CITATIONS
145	Instant Postsynthesis Aqueous Dispersion of Sb-Doped SnO ₂ Nanocrystals: The Synergy between Small-Molecule Amine and Sb Dopant Ratio. ACS Applied Materials & Interfaces, 2020, 12, 29937-29945.	4.0	3
146	Recycle cathode materials from spent lithium-ion batteries by an innovative method. Ionics, 2022, 28, 2135-2141.	1.2	3
147	Lithium-Ion Batteries: Hierarchical Self-assembly of Microscale Cog-like Superstructures for Enhanced Performance in Lithium-Ion Batteries (Adv. Funct. Mater. 18/2011). Advanced Functional Materials, 2011, 21, 3398-3398.	7.8	2
148	Controlled hydrothermal growth and optical characterization of wide band gap Be _x Zn _{1-x} O nanorod arrays. Journal of Materials Science, 2013, 48, 3936-3942.	1.7	2
149	Novel hierarchical yolk-shell Ni(OH) ₂ /Mn ₂ O ₃ microspheres as high specific capacitance electrode materials for supercapacitors. Frontiers of Chemical Science and Engineering, 2021, 15, 1322-1331.	2.3	2
150	Oriented Catalytic Oxidation Induced Fabrication of CuO/Mn ₃ O ₄ Hierarchical Arrays as Binder-Free Electrodes for High-Performance Supercapacitor. Advanced Materials Interfaces, 2021, 8, 2101076.	1.9	2
151	Field electron emission from cupric oxide-nanobelt films. , 0, , .		0
152	Ni/ZnO heterostructured microspheres: electronic structure engineering for enhanced photocatalytic activity. Materials Research Express, 2019, 6, 0850e5.	0.8	0
153	Polymer-Based Solid-State Electrolytes. ACS Symposium Series, 0, , 201-232.	0.5	0