

# Yongguang Zhang

## List of Publications by Citations

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176  
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5,654  
ext. citations

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#	Paper	IF	Citations
167	Ternary sulfur/polyacrylonitrile/Mg <sub>0.6</sub> Ni <sub>0.4</sub> O composite cathodes for high performance lithium/sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 295-301	13	191
166	Low-Bandgap Se-Deficient Antimony Selenide as a Multifunctional Polysulfide Barrier toward High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904876	24	120
165	One-step synthesis of branched sulfur/polypyrrole nanocomposite cathode for lithium rechargeable batteries. <i>Journal of Power Sources</i> , <b>2012</b> , 208, 1-8	8.9	111
164	A novel nano-sulfur/polypyrrole/graphene nanocomposite cathode with a dual-layered structure for lithium rechargeable batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 241, 517-521	8.9	94
163	Synthesis of poly(ethylene-oxide)/nanoclay solid polymer electrolyte for all solid-state lithium/sulfur battery. <i>Ionics</i> , <b>2015</b> , 21, 381-385	2.7	85
162	Hierarchical Defective Fe <sub>3</sub> -xC@C Hollow Microsphere Enables Fast and Long-Lasting Lithium/Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001165	15.6	85
161	Three-dimensionally ordered macro-microporous metal organic frameworks with strong sulfur immobilization and catalyzation for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , <b>2020</b> , 72, 104685	17.1	83
160	High Performance Zn/LiFePO <sub>4</sub> Aqueous Rechargeable Battery for Large Scale Applications. <i>Electrochimica Acta</i> , <b>2015</b> , 152, 505-511	6.7	83
159	Enhanced cycle performance of Li/S battery with the reduced graphene oxide/activated carbon functional interlayer. <i>Journal of Energy Chemistry</i> , <b>2017</b> , 26, 1276-1281	12	82
158	Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a High-Efficiency Lithium Polysulfide Conversion Process. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 2371-2378	16.4	78
157	Polymer electrolytes for lithium/sulfur batteries. <i>Membranes</i> , <b>2012</b> , 2, 553-64	3.8	77
156	Vertically rooting multifunctional tentacles on carbon scaffold as efficient polysulfide barrier toward superior lithium-sulfur batteries. <i>Nano Energy</i> , <b>2019</b> , 64, 103905	17.1	74
155	Electrochemical performance of lithium gel polymer battery with nanostructured sulfur/carbon composite cathode. <i>Solid State Ionics</i> , <b>2013</b> , 234, 40-45	3.3	74
154	Defect-Rich Multishelled Fe-Doped CoO Hollow Microspheres with Multiple Spatial Confinements to Facilitate Catalytic Conversion of Polysulfides for High-Performance Li-S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 12763-12773	9.5	70
153	Effect of nanosized Mg <sub>0.6</sub> Ni <sub>0.4</sub> O prepared by self-propagating high temperature synthesis on sulfur cathode performance in Li/S batteries. <i>Powder Technology</i> , <b>2013</b> , 235, 248-255	5.2	68
152	Binding mechanism of sulfur and dehydrogenated polyacrylonitrile in sulfur/polymer composite cathode. <i>Journal of Power Sources</i> , <b>2013</b> , 241, 61-69	8.9	63
151	Poly(vinylidene fluoride-co-hexafluoropropylene)/poly(methylmethacrylate)/nanoclay composite gel polymer electrolyte for lithium/sulfur batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 1111-1116	2.6	62

150	Effect of mesoporous carbon microtube prepared by carbonizing the poplar catkin on sulfur cathode performance in Li/S batteries. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 619, 298-302	5.7	61
149	Simple, scalable, and economical preparation of sulfur/PAN composite cathodes for Li/S batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 259, 183-187	8.9	60
148	Engineering the Conductive Network of Metal Oxide-Based Sulfur Cathode toward Efficient and Longevous Lithium/Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002076	21.8	60
147	A sulfur/polyacrylonitrile/graphene composite cathode for lithium batteries with excellent cyclability. <i>Journal of Power Sources</i> , <b>2014</b> , 252, 107-112	8.9	59
146	Effect of Graphene on Sulfur/Polyacrylonitrile Nanocomposite Cathode in High Performance Lithium/Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1194-A1198	3.9	58
145	All-Purpose Electrode Design of Flexible Conductive Scaffold toward High-Performance LiS Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000613	15.6	56
144	Well-dispersed sulfur anchored on interconnected polypyrrole nanofiber network as high performance cathode for lithium-sulfur batteries. <i>Solid State Sciences</i> , <b>2017</b> , 66, 44-49	3.4	54
143	Synthesis of Hierarchical Porous Sulfur/Polypyrrole/Multiwalled Carbon Nanotube Composite Cathode for Lithium Batteries. <i>Electrochimica Acta</i> , <b>2014</b> , 143, 49-55	6.7	54
142	In situ sol-gel synthesis of ultrafine ZnO nanocrystals anchored on graphene as anode material for lithium-ion batteries. <i>Ceramics International</i> , <b>2016</b> , 42, 12371-12377	5.1	54
141	High specific surface area bimodal porous carbon derived from biomass reed flowers for high performance lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 569, 22-33	9.3	51
140	A novel sulfur/polypyrrole/multi-walled carbon nanotube nanocomposite cathode with core-shell tubular structure for lithium rechargeable batteries. <i>Solid State Ionics</i> , <b>2013</b> , 238, 30-35	3.3	49
139	SiO <sub>2</sub> /Cu/polyacrylonitrile-C composite as anode material in lithium ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 240, 659-666	8.9	47
138	Novel MoSe <sub>2</sub> /MoO <sub>2</sub> heterostructure as an effective sulfur host for high-performance lithium/sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122672	14.7	45
137	A Free-Standing Sulfur/Nitrogen-Doped Carbon Nanotube Electrode for High-Performance Lithium/Sulfur Batteries. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 450	5	44
136	Development in Lithium/Sulfur Secondary Batteries. <i>Open Materials Science Journal</i> , <b>2011</b> , 5, 215-221		44
135	Construction of Oxygen-Deficient La(OH) Nanorods Wrapped by Reduced Graphene Oxide for Polysulfide Trapping toward High-Performance Lithium/Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 23271-23279	9.5	42
134	Preparation of novel network nanostructured sulfur composite cathode with enhanced stable cycle performance. <i>Journal of Power Sources</i> , <b>2014</b> , 270, 326-331	8.9	40
133	A novel CuS/graphene-coated separator for suppressing the shuttle effect of lithium/sulfur batteries. <i>Applied Surface Science</i> , <b>2019</b> , 466, 309-319	6.7	40

- 132 Three-dimensional carbon fiber as current collector for lithium/sulfur batteries. *Ionics*, **2014**, 20, 803-808.7 39
- 131 Porous three-dimensional reduced graphene oxide for high-performance lithium-sulfur batteries. *Journal of Alloys and Compounds*, **2018**, 739, 290-297 5.7 37
- 130 Electrochemical performance of carbon-encapsulated Fe<sub>3</sub>O<sub>4</sub> nanoparticles in lithium-ion batteries: morphology and particle size effects. *Electrochimica Acta*, **2016**, 216, 475-483 6.7 37
- 129 A novel lithium/sulfur battery based on sulfur/graphene nanosheet composite cathode and gel polymer electrolyte. *Nanoscale Research Letters*, **2014**, 9, 137 5 37
- 128 Fabrication and Characterization of an Effective Polymer Nanocomposite Electrolyte Membrane for High Performance Lithium/Sulfur Batteries. *Journal of the Electrochemical Society*, **2013**, 160, A1052-A1060 3.8 36
- 127 Biomass-Derived Oxygen and Nitrogen Co-Doped Porous Carbon with Hierarchical Architecture as Sulfur Hosts for High-Performance Lithium/Sulfur Batteries. *Nanomaterials*, **2017**, 7, 5-4 36
- 126 Dual-network nanoporous NiFe<sub>2</sub>O<sub>4</sub>/NiO composites for high performance Li-ion battery anodes. *Chemical Engineering Journal*, **2020**, 388, 124207 14.7 35
- 125 Micro-Spherical Sulfur/Graphene Oxide Composite via Spray Drying for High Performance Lithium Sulfur Batteries. *Nanomaterials*, **2018**, 8, 5-4 35
- 124 One-pot approach to synthesize PPy@S core-shell nanocomposite cathode for Li/S batteries. *Journal of Nanoparticle Research*, **2013**, 15, 1 2.3 35
- 123 A simple approach to synthesize nanosized sulfur/graphene oxide materials for high-performance lithium/sulfur batteries. *Ionics*, **2014**, 20, 1047-1050 2.7 34
- 122 Hydrogen evolution reaction mechanism on 2H-MoS<sub>2</sub> electrocatalyst. *Applied Surface Science*, **2019**, 498, 143869 6.7 33
- 121 Simple fabrication of free-standing ZnO/graphene/carbon nanotube composite anode for lithium-ion batteries. *Materials Letters*, **2016**, 184, 235-238 3.3 33
- 120 Three-dimensionally ordered hierarchically porous polypyrrole loading sulfur as high-performance cathode for lithium/sulfur batteries. *Polymer*, **2018**, 137, 261-268 3.9 32
- 119 Aligned sulfur-deficient ZnS<sub>1-x</sub> nanotube arrays as efficient catalyzer for high-performance lithium/sulfur batteries. *Nano Energy*, **2021**, 84, 105891 17.1 31
- 118 Synthesis of nitrogen-doped oxygen-deficient TiO<sub>2-x</sub>/reduced graphene oxide/sulfur microspheres via spray drying process for lithium-sulfur batteries. *Electrochimica Acta*, **2019**, 326, 134968 6.7 29
- 117 Boosting the electrochemical performance of lithium/sulfur batteries with the carbon nanotube/Fe<sub>3</sub>O<sub>4</sub> coated by carbon modified separator. *Electrochimica Acta*, **2019**, 327, 134843 6.7 28
- 116 Synthesis of carbon coated Fe<sub>3</sub>O<sub>4</sub> grown on graphene as effective sulfur-host materials for advanced lithium/sulfur battery. *Journal of Power Sources*, **2019**, 437, 226901 8.9 28
- 115 Facile synthesis of carbon-coated Fe<sub>3</sub>O<sub>4</sub> core-shell nanoparticles as anode materials for lithium-ion batteries. *Journal of Nanoparticle Research*, **2015**, 17, 1 2.3 27

114	Bimodal nanoporous NiO@NiSi network prepared by dealloying method for stable Li-ion storage. <i>Journal of Power Sources</i> , <b>2020</b> , 449, 227550	8.9	27
113	Blackberry-like hollow graphene spheres synthesized by spray drying for high-performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 295, 822-828	6.7	27
112	Amorphizing metal-organic framework towards multifunctional polysulfide barrier for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , <b>2021</b> , 86, 106094	17.1	27
111	Synthesis and electrochemical investigation of highly dispersed ZnO nanoparticles as anode material for lithium-ion batteries. <i>Ionics</i> , <b>2016</b> , 22, 1387-1393	2.7	26
110	Nanoporous GeO <sub>2</sub> /Cu/Cu <sub>2</sub> O network synthesized by dealloying method for stable Li-ion storage. <i>Electrochimica Acta</i> , <b>2019</b> , 300, 363-372	6.7	25
109	Facile Synthesis of SiO@C Nanoparticles Anchored on MWNT as High-Performance Anode Materials for Li-ion Batteries. <i>Nanoscale Research Letters</i> , <b>2017</b> , 12, 459	5	25
108	Three-dimensionally ordered macro-/mesoporous carbon loading sulfur as high-performance cathodes for lithium/sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 714, 126-132	5.7	24
107	Ultra-fine zinc oxide nanocrystals decorated three-dimensional macroporous polypyrrole inverse opal as efficient sulfur hosts for lithium/sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 122055	14.7	24
106	Synthesis and characterization of mesoporous BiVO <sub>4</sub> nanofibers with enhanced photocatalytic water oxidation performance. <i>Applied Surface Science</i> , <b>2019</b> , 481, 255-261	6.7	24
105	Corn stalk-derived activated carbon with a stacking sheet-like structure as sulfur cathode supporter for lithium/sulfur batteries. <i>Ionics</i> , <b>2016</b> , 22, 63-69	2.7	23
104	Flexible S/DPAN/KB Nanofiber Composite as Binder-Free Cathodes for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A5396-A5402	3.9	23
103	Synthesis of Mesoporous ZnO Nanosheets via Facile Solvothermal Method as the Anode Materials for Lithium-ion Batteries. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 37	5	23
102	Deciphering interpenetrated interface of transition metal oxides/phosphates from atomic level for reliable Li/S electrocatalytic behavior. <i>Nano Energy</i> , <b>2021</b> , 81, 105602	17.1	23
101	A PPy/ZnO functional interlayer to enhance electrochemical performance of lithium/sulfur batteries. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 307	5	23
100	Engineering Oversaturated Fe-N Multifunctional Catalytic Sites for Durable Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26622-26629	16.4	23
99	Enhanced electrochemical performance of sulfur/polyacrylonitrile composite by carbon coating for lithium/sulfur batteries. <i>Journal of Nanoparticle Research</i> , <b>2017</b> , 19, 1	2.3	22
98	Porous TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> nanoplate composites prepared by de-alloying method for Li-ion batteries. <i>Materials Letters</i> , <b>2018</b> , 211, 254-257	3.3	22
97	Chemical Dealloying Synthesis of CuS Nanowire-on-Nanoplate Network as Anode Materials for Li-Ion Batteries. <i>Metals</i> , <b>2018</b> , 8, 252	2.3	22

96	Biomass Waste Inspired Highly Porous Carbon for High Performance Lithium/Sulfur Batteries. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	22
95	Dissolving Vanadium into Titanium Nitride Lattice Framework for Rational Polysulfide Regulation in LiS Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003020	21.8	22
94	Cyclability of sulfur/dehydrogenated polyacrylonitrile composite cathode in lithium-sulfur batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 69-76	2.6	21
93	Soft on rigid nanohybrid as the self-supporting multifunctional cathode electrocatalyst for high-performance lithium-polysulfide batteries. <i>Nano Energy</i> , <b>2020</b> , 78, 105293	17.1	21
92	Fabrication and Properties of Carbon-Encapsulated Cobalt Nanoparticles over NaCl by CVD. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 432	5	20
91	ZnS Nanotubes/Carbon Cloth as a Reversible and High-Capacity Anode Material for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 461-466	4.3	20
90	Sulfur-Infiltrated Three-Dimensionally Ordered Mesoporous Polypyrrole Cathode for High-Performance Lithium-Sulfur Battery. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1591-1598	4.3	19
89	Synthesis of hierarchical MoS <sub>2</sub> microspheres composed of nanosheets assembled via facile hydrothermal method as anode material for lithium-ion batteries. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	19
88	Hierarchically porous TiO <sub>2</sub> matrix encapsulated sulfur and polysulfides for high performance lithium/sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 678-685	5.7	19
87	TiO/Porous Carbon Composite-Decorated Separators for Lithium/Sulfur Battery. <i>Nanoscale Research Letters</i> , <b>2019</b> , 14, 176	5	19
86	High performance sulfur/nitrogen-doped graphene cathode for lithium/sulfur batteries. <i>Ionics</i> , <b>2015</b> , 21, 1925-1930	2.7	19
85	Hierarchical Micro-Nanoclusters of Bimetallic Layered Hydroxide Polyhedrons as Advanced Sulfur Reservoir for High-Performance Lithium-Sulfur Batteries. <i>Advanced Science</i> , <b>2021</b> , 8, 2003400	13.6	19
84	Facile Approach to Prepare rGO@FeO Microspheres for the Magnetically Targeted and NIR-responsive Chemo-photothermal Combination Therapy. <i>Nanoscale Research Letters</i> , <b>2020</b> , 15, 86	5	18
83	Design of Quasi-MOF Nanospheres as a Dynamic Electrocatalyst toward Accelerated Sulfur Reduction Reaction for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2021</b> , e2105541 <sup>24</sup>		18
82	Examining the effect of nanosized Mg <sub>0.6</sub> Ni <sub>0.4</sub> O and Al <sub>2</sub> O <sub>3</sub> additives on S/polyaniline cathodes for lithium-sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 780, 407-415	4.1	17
81	Spontaneously rooting carbon nanotube incorporated N-doped carbon nanofibers as efficient sulfur host toward high performance lithium-sulfur batteries. <i>Applied Surface Science</i> , <b>2021</b> , 539, 148209 <sup>6.7</sup>	6.7	17
80	Flexible free-standing Na <sub>4</sub> Mn <sub>9</sub> O <sub>18</sub> /reduced graphene oxide composite film as a cathode for sodium rechargeable hybrid aqueous battery. <i>Electrochimica Acta</i> , <b>2018</b> , 259, 647-654	6.7	17
79	3D Ordered Macroporous Carbon Encapsulated ZnO Nanoparticles as a High-Performance Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2359-2365	4.3	16

78	Bauna Activation toward Intrinsic Lattice Deficiency in Carbon Nanotube Microspheres for High-Energy and Long-Lasting Lithium/Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100497	21.8	16
77	Novel silicon nanowire film on copper foil as high performance anode for lithium-ion batteries. <i>Ionics</i> , <b>2018</b> , 24, 373-378	2.7	16
76	Three-Dimensional Hierarchical Porous Structure of PPy/Porous-Graphene to Encapsulate Polysulfides for Lithium/Sulfur Batteries. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	15
75	Three-Dimensionally Hierarchical Graphene Based Aerogel Encapsulated Sulfur as Cathode for Lithium/Sulfur Batteries. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	14
74	Facile spray drying approach to synthesize Sb <sub>2</sub> Se <sub>3</sub> /rGO composite anode for lithium-ion battery. <i>Journal of Nanoparticle Research</i> , <b>2019</b> , 21, 1	2.3	13
73	Modified Si nanowire/graphite-like carbon nitride core-shell photoanodes for solar water splitting. <i>Electrochemistry Communications</i> , <b>2018</b> , 87, 13-17	5.1	13
72	Ternary Sulfur/Polyacrylonitrile/SiO <sub>2</sub> Composite Cathodes for High-Performance Sulfur/Lithium Ion Full Batteries. <i>Polymers</i> , <b>2018</b> , 10,	4.5	13
71	Synthesis of mesoporous hollow polypyrrole spheres and the utilization as supports of high loading of Pt nanoparticles. <i>Materials Letters</i> , <b>2017</b> , 207, 225-229	3.3	13
70	Rational Construction of Sulfur-Deficient NiCo <sub>2</sub> S <sub>4</sub> Hollow Microspheres as an Effective Polysulfide Immobilizer toward High-Performance Lithium/Sulfur Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1687-1695	6.1	13
69	Co <sub>3</sub> O <sub>4</sub> nanoparticles anchored in porous carbon matrix as an efficient sulfur host for lithium/sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 818, 152868	5.7	12
68	Nitrogen-Doped Defective Graphene Aerogel as Anode for all Graphene-Based Lithium Ion Capacitor. <i>ChemistrySelect</i> , <b>2017</b> , 2, 8436-8445	1.8	11
67	Polyacrylonitrile-Nanofiber-Based Gel Polymer Electrolyte for Novel Aqueous Sodium-Ion Battery Based on a NaMnO <sub>2</sub> Cathode and Zn Metal Anode. <i>Polymers</i> , <b>2018</b> , 10,	4.5	11
66	Integrating Nanoreactor with ONbC Heterointerface Design and Defects Engineering Toward High-Efficiency and Longevous Sodium Ion Battery. <i>Advanced Energy Materials</i> , 2103716	21.8	11
65	Three-Dimensional S/CeO <sub>2</sub> /rGO Composites as Cathode Materials for Lithium/Sulfur Batteries. <i>Materials</i> , <b>2018</b> , 11,	3.5	11
64	Three-dimensional carbon cloth-supported ZnO nanorod arrays as a binder-free anode for lithium-ion batteries. <i>Journal of Nanoparticle Research</i> , <b>2017</b> , 19, 1	2.3	10
63	Synthesis of highly defective hollow double-shelled Co <sub>3</sub> O <sub>4</sub> microspheres as sulfur host for high-performance lithium-sulfur batteries. <i>Materials Letters</i> , <b>2019</b> , 255, 126581	3.3	10
62	Polypyrrole Nanowires with Ordered Large Mesopores: Synthesis, Characterization and Applications in Supercapacitor and Lithium/Sulfur Batteries. <i>Polymers</i> , <b>2019</b> , 11,	4.5	10
61	Effect of Ni interlayer on characteristics of diffusion bonded Mg/Al joints. <i>Materials Science and Technology</i> , <b>2018</b> , 34, 1104-1111	1.5	10

60	Three-dimensionally ordered macro/mesoporous TiO matrix to immobilize sulfur for high performance lithium/sulfur batteries. <i>Nanotechnology</i> , <b>2018</b> , 29, 415401	3.4	10
59	Electrochemical Properties of an NaMnO-Reduced Graphene Oxide Composite Synthesized via Spray Drying for an Aqueous Sodium-Ion Battery. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	10
58	Coordinatively Deficient Single-atom Fe-N-C Electrocatalyst with Optimized Electronic Structure for High-performance Lithium-sulfur Batteries. <i>Energy Storage Materials</i> , <b>2022</b> , 46, 269-277	19.4	10
57	Hierarchically Porous TiC MXene with Tunable Active Edges and Unsaturated Coordination Bonds for Superior Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2021</b> ,	16.7	10
56	Improving the cycling stability of three-dimensional nanoporous Ge anode by embedding Ag nanoparticles for high-performance lithium-ion battery. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 592, 103-115	9.3	10
55	Nickel embedded porous macrocellular carbon derived from popcorn as sulfur host for high-performance lithium-sulfur batteries. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 74, 69-77	9.1	10
54	Design Zwitterionic Amorphous Conjugated Micro-/Mesoporous Polymer Assembled Nanotentacle as Highly Efficient Sulfur Electrocatalyst for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101926	21.8	10
53	Synthesis of a Flexible Freestanding Sulfur/Polyacrylonitrile/Graphene Oxide as the Cathode for Lithium/Sulfur Batteries. <i>Polymers</i> , <b>2018</b> , 10,	4.5	9
52	TiO/GO-coated functional separator to suppress polysulfide migration in lithium-sulfur batteries. <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 1726-1736	3	9
51	Hierarchical Rambutan-Like CNTs-Assembled NCo@rGO Composite as Sulfur Immobilizer for High-Performance Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 4565-4570	4.3	9
50	Synthesis of CoO nanocrystals decorated porous carbon nanotube microspheres as sulfur host for high performance Li/S batteries. <i>Nanotechnology</i> , <b>2020</b> , 31, 025403	3.4	9
49	Cobalt-doped oxygen-deficient titanium dioxide coated by carbon layer as high-performance sulfur host for Li/S batteries. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 861, 157969	5.7	9
48	Simple One-Pot Synthesis of Hexagonal ZnO Nanoplates as Anode Material for Lithium-Ion Batteries. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-6	3.2	9
47	TiO <sub>2</sub> nanoparticles anchored on three-dimensionally ordered macro/mesoporous carbon matrix as polysulfides immobilizers for high performance lithium/sulfur batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 565-572	2.6	9
46	High-loading Pt nanoparticles on mesoporous carbon with large mesopores for highly active methanol electro-oxidation. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 1705-1712	2.6	8
45	Nitrogen-doped carbon nanotubes coated with zinc oxide nanoparticles as sulfur encapsulator for high-performance lithium/sulfur batteries. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 1677-1685	3	8
44	Sn modified nanoporous Ge for improved lithium storage performance. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 602, 563-572	9.3	8
43	Preparation of Na <sub>4</sub> Mn <sub>9</sub> O <sub>18</sub> /carbon nanotube/reduced graphene oxide by spray drying as cathode materials for sodium ion batteries. <i>Solid State Sciences</i> , <b>2019</b> , 94, 77-84	3.4	7



42	Interconnected nitrogen-doped carbon nanofibers derived from polypyrrole for high-performance Li/S batteries. <i>Russian Journal of Applied Chemistry</i> , <b>2016</b> , 89, 1336-1340	0.8	7
41	Interspersing Partially Oxidized VC Nanosheets and Carbon Nanotubes toward Multifunctional Polysulfide Barriers for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 56085-56094	9.5	7
40	Carbon nanotubes assembled on porous TiO matrix doped with CoO as sulfur host for lithium-sulfur batteries. <i>Nanotechnology</i> , <b>2021</b> , 32, 075403	3.4	7
39	Synthesis of Multiwalled Carbon Nanotube Aqueous Suspension with Surfactant Sodium Dodecylbenzene Sulfonate for Lithium/Sulfur Rechargeable Batteries. <i>Electrochemistry</i> , <b>2016</b> , 84, 7-11	1.2	7
38	Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a High-Efficiency Lithium Polysulfide Conversion Process. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 2401-2408	3.6	7
37	AlF <sub>3</sub> microrods modified nanoporous Ge/Ag anodes fabricated by one-step dealloying strategy for stable lithium storage. <i>Materials Letters</i> , <b>2020</b> , 276, 128254	3.3	6
36	Synthesis of microflower-like vacancy defective copper sulfide/reduced graphene oxide composites for highly efficient lithium-ion batteries. <i>Nanotechnology</i> , <b>2020</b> , 31, 095405	3.4	6
35	Amorphous/crystalline-heterostructured niobium oxide as two-in-one host matrix for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11160-11167	13	6
34	A new defect-rich and ultrathin ZnCo layered double hydroxide/carbon nanotubes architecture to facilitate catalytic conversion of polysulfides for high-performance Li-S batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 129248	14.7	6
33	Preparation of Hierarchical Porous Carbon from Waterweed and Its Application in Lithium/Sulfur Batteries. <i>Energies</i> , <b>2018</b> , 11, 1535	3.1	5
32	Mechanistic study of site blocking catalytic deactivation through accelerated kinetic Monte Carlo. <i>Journal of Catalysis</i> , <b>2019</b> , 378, 176-183	7.3	5
31	A porous 3D-RGO@MWCNT hybrid material as Li-S battery cathode. <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 514-521	3	4
30	Lithium-Sulfur Batteries: Low-Bandgap Se-Deficient Antimony Selenide as a Multifunctional Polysulfide Barrier toward High-Performance Lithium-Sulfur Batteries (Adv. Mater. 4/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070030	24	4
29	Synthesis of Core-Shell Carbon Encapsulated Fe <sub>2</sub> O <sub>3</sub> Composite through a Facile Hydrothermal Approach and Their Application as Anode Materials for Sodium-Ion Batteries. <i>Metals</i> , <b>2018</b> , 8, 461	2.3	4
28	Novel Sulfur/Ethylenediamine-Functionalized Reduced Graphene Oxide Composite as Cathode Material for High-performance Lithium-Sulfur Batteries. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	4
27	Oxidized Nb <sub>2</sub> C MXene as catalysts for lithium-sulfur batteries: mitigating the shuttle phenomenon by facilitating catalytic conversion of lithium polysulfides. <i>Journal of Materials Science and Technology</i> , <b>2022</b> ,	9.1	4
26	In-situ constructed accordion-like Nb <sub>2</sub> C/Nb <sub>2</sub> O <sub>5</sub> heterostructure as efficient catalyzer towards high-performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , <b>2022</b> , 520, 230902	8.9	4
25	Nitrogen-doped graphitized porous carbon with embedded NiFe alloy nanoparticles to enhance electrochemical performance for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 882, 160728	5.7	4

24	Hematite photoanode modified with inexpensive hole-storage layer for highly efficient solar water oxidation. <i>Nanotechnology</i> , <b>2020</b> , 31, 455405	3.4	3
23	Building Flexibly Porous Conductive Skeleton Inlaid with Surface Oxygen-Dominated MXene as an Amphiphilic Nanoreactor for Stable Li-S Pouch Batteries. <i>Energy Storage Materials</i> , <b>2022</b> , 47, 434-434	19.4	3
22	Facile synthesis of free-standing nanorod structured ZnO@carbon nanofiber film and its application in lithium-ion battery anode. <i>Solid State Sciences</i> , <b>2020</b> , 109, 106430	3.4	3
21	3D MXene microspheres with honeycomb architecture for tumor photothermal/photodynamic/chemo combination therapy. <i>Nanotechnology</i> , <b>2021</b> , 32, 195701	3.4	3
20	Mulberry-like hollow rGO microspheres decorated with CoO nanoparticles as efficient polysulfides anchoring for Li-S batteries. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 873, 114375	4.1	2
19	Defective ZnOx@porous carbon nanofiber network inducing dendrite-free zinc plating as zinc metal anode for high-performance aqueous rechargeable Zn/Na <sub>4</sub> Mn <sub>9</sub> O <sub>18</sub> battery based on hybrid electrolyte. <i>Journal of Power Sources</i> , <b>2022</b> , 518, 230761	8.9	2
18	Three-Dimensionally Ordered Macroporous ZnO Framework as Dual-Functional Sulfur Host for High-Efficiency Lithium-Sulfur Batteries. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2
17	Pomegranate-like conductive spherical composite as multifunctional cathode for high-performance lithium-sulfur battery. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 855, 157382	5.7	2
16	All-Purpose Electrodes: All-Purpose Electrode Design of Flexible Conductive Scaffold toward High-Performance LiS Batteries (Adv. Funct. Mater. 19/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070123	15.6	1
15	Boron nitride nanosheets wrapped by reduced graphene oxide for promoting polysulfides adsorption in lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> ,	9.3	1
14	Synthesis of Double-Shelled [email protected] Nanocages through a Spray-Drying Process as an Advanced Sulfur Reservoir for LithiumSulfur Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 12623-12630	6.1	1
13	Rational design of graphene oxide wrapped porous microspheres as high-performance sulfur cathode in lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 899, 163240	5.7	1
12	Evaluating Sulfur-Composite Cathode Material with Lithiated Graphite Anode in Coin Cell and Pouch Cell Configuration. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,	3.8	1
11	LiS Batteries: NaNa Activation toward Intrinsic Lattice Deficiency in Carbon Nanotube Microspheres for High-Energy and Long-Lasting LithiumSulfur Batteries (Adv. Energy Mater. 26/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170099	21.8	1
10	Engineering zwitterionic barrier by squaraine-based porous organic framework fiber for superior lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2021</b> , 397, 139276	6.7	1
9	Engineering Oversaturated Fe-N5 Multifunctional Catalytic Sites for Durable Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> ,	3.6	1
8	Defect-rich porous tubular graphitic carbon nitride with strong adsorption towards lithium polysulfides for high-performance lithium-sulfur batteries. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 115, 140-147	9.1	0
7	NiCoS Nanocrystals on Nitrogen-Doped Carbon Nanotubes as High-Performance Anode for Lithium-Ion Batteries. <i>Nanoscale Research Letters</i> , <b>2021</b> , 16, 105	5	0

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