

Xin Wang

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161
papers

7,872
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168
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10,407
ext. citations

10
avg, IF

6.6
L-index

#	Paper	IF	Citations
161	A review on noble-metal-free bifunctional heterogeneous catalysts for overall electrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17587-17603	13	740
160	Chemical and structural origin of lattice oxygen oxidation in Co ₂ N oxyhydroxide oxygen evolution electrocatalysts. <i>Nature Energy</i> , 2019 , 4, 329-338	62.3	542
159	Design of Efficient Bifunctional Oxygen Reduction/Evolution Electrocatalyst: Recent Advances and Perspectives. <i>Advanced Energy Materials</i> , 2017 , 7, 1700544	21.8	407
158	Carbon Nanosheets Containing Discrete Co-N-B-C Active Sites for Efficient Oxygen Electrocatalysis and Rechargeable Zn-Air Batteries. <i>ACS Nano</i> , 2018 , 12, 1894-1901	16.7	294
157	High-performance silicon nanohole solar cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6872-6874	36.4	272
156	Selective Electrochemical H ₂ O ₂ Production through Two-Electron Oxygen Electrochemistry. <i>Advanced Energy Materials</i> , 2018 , 8, 1801909	21.8	263
155	One step synthesis of oxygen doped porous graphitic carbon nitride with remarkable improvement of photo-oxidation activity: Role of oxygen on visible light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 319-327	21.8	262
154	Dual Interfacial Design for Efficient CsPbI ₃ Br Perovskite Solar Cells with Improved Photostability. <i>Advanced Materials</i> , 2019 , 31, e1901152	24	248
153	Switching charge transfer of C ₃ N ₄ /W ₁₈ O ₄₉ from type-II to Z-scheme by interfacial band bending for highly efficient photocatalytic hydrogen evolution. <i>Nano Energy</i> , 2017 , 40, 308-316	17.1	235
152	Silicon nanowire array photoelectrochemical solar cells. <i>Applied Physics Letters</i> , 2008 , 92, 163103	3.4	233
151	Silicon nanowires for advanced energy conversion and storage. <i>Nano Today</i> , 2013 , 8, 75-97	17.9	227
150	Platinum nanoparticle decorated silicon nanowires for efficient solar energy conversion. <i>Nano Letters</i> , 2009 , 9, 3704-9	11.5	227
149	Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. <i>Nano Energy</i> , 2016 , 30, 368-378	17.1	196
148	In situ surface alkalinized g-C ₃ N ₄ toward enhancement of photocatalytic H ₂ evolution under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2943-2950	13	191
147	Silicon/hematite core/shell nanowire array decorated with gold nanoparticles for unbiased solar water oxidation. <i>Nano Letters</i> , 2014 , 14, 18-23	11.5	142
146	Unsupported Platinum-Based Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Energy Letters</i> , 2017 , 2, 2035-2043	20.1	139
145	Gas sensing properties of single crystalline porous silicon nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 243112	3.4	126

144	High-performance silicon nanowire array photoelectrochemical solar cells through surface passivation and modification. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9861-5	16.4	121
143	Edge-Rich Fe-N Active Sites in Defective Carbon for Oxygen Reduction Catalysis. <i>Advanced Materials</i> , 2020 , 32, e2000966	24	113
142	Nitrogen-containing ultramicroporous carbon nanospheres for high performance supercapacitor electrodes. <i>Electrochimica Acta</i> , 2016 , 205, 132-141	6.7	109
141	Polysulfide Regulation by the Zwitterionic Barrier toward Durable Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3583-3592	16.4	95
140	Dynamic electrocatalyst with current-driven oxyhydroxide shell for rechargeable zinc-air battery. <i>Nature Communications</i> , 2020 , 11, 1952	17.4	93
139	Hierarchical Defective Fe ₃ -xC@C Hollow Microsphere Enables Fast and Long-Lasting Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001165	15.6	85
138	Linkage Effect in the Heterogenization of Cobalt Complexes by Doped Graphene for Electrocatalytic CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13532-13539	16.4	84
137	Three-dimensionally ordered macro-microporous metal organic frameworks with strong sulfur immobilization and catalyzation for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2020 , 72, 104685	17.1	83
136	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> , 2021 , 60, 2371-2378	16.4	78
135	Vertically rooting multifunctional tentacles on carbon scaffold as efficient polysulfide barrier toward superior lithium-sulfur batteries. <i>Nano Energy</i> , 2019 , 64, 103905	17.1	74
134	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 & Interfaces</i> , 2020 , 12, 12763-12773	9.5	70
133	Freestanding Mo ₂ C-decorating N-doped carbon nanofibers as 3D current collector for ultra-stable Li-S batteries. <i>Energy Storage Materials</i> , 2019 , 18, 375-381	19.4	69
132	Constructing multifunctional solid electrolyte interface via in-situ polymerization for dendrite-free and low N/P ratio lithium metal batteries. <i>Nature Communications</i> , 2021 , 12, 186	17.4	61
131	Engineering the Conductive Network of Metal Oxide-Based Sulfur Cathode toward Efficient and Longevous Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2002076	21.8	60
130	In Situ Hydrothermal Construction of Direct Solid-State Nano-Z-Scheme BiVO ₄ /Pyridine-Doped g-CN Photocatalyst with Efficient Visible-Light-Induced Photocatalytic Degradation of Phenol and Dyes. <i>ACS Omega</i> , 2017 , 2, 2728-2739	3.9	59
129	Well-dispersed sulfur anchored on interconnected polypyrrole nanofiber network as high performance cathode for lithium-sulfur batteries. <i>Solid State Sciences</i> , 2017 , 66, 44-49	3.4	54
128	Ultrafine Rh nanocrystals decorated ultrathin NiO nanosheets for urea electro-oxidation. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118567	21.8	53
127	Insights into the mechanism of the enhanced visible-light photocatalytic activity of black phosphorus/BiVO ₄ heterostructure: a first-principles study. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19167-19175	13	49

126	Fabrication and photovoltaic property of ordered macroporous silicon. <i>Applied Physics Letters</i> , 2009 , 95, 143119	3.4	48
125	Hierarchical self-assembled BiS hollow nanotubes coated with sulfur-doped amorphous carbon as advanced anode materials for lithium ion batteries. <i>Nanoscale</i> , 2018 , 10, 13343-13350	7.7	46
124	Recent Progress on Flexible Zn-Air Batteries. <i>Energy Storage Materials</i> , 2021 , 35, 538-549	19.4	43
123	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 & Interfaces</i> , 2019 , 11, 23271-23279	9.5	42
122	Graphene encapsulated and SiC reinforced silicon nanowires as an anode material for lithium ion batteries. <i>Nanoscale</i> , 2013 , 5, 8689-94	7.7	42
121	Fabrication and photoelectrochemical properties of silicon nanowires/g-C ₃ N ₄ core/shell arrays. <i>Applied Surface Science</i> , 2017 , 396, 609-615	6.7	41
120	KOH-treated reduced graphene oxide: 100% selectivity for H ₂ O ₂ electroproduction. <i>Carbon</i> , 2019 , 153, 6-11	10.4	39
119	Biomass-Derived Oxygen and Nitrogen Co-Doped Porous Carbon with Hierarchical Architecture as Sulfur Hosts for High-Performance Lithium/Sulfur Batteries. <i>Nanomaterials</i> , 2017 , 7,	5.4	36
118	Micro-Spherical Sulfur/Graphene Oxide Composite via Spray Drying for High Performance Lithium Sulfur Batteries. <i>Nanomaterials</i> , 2018 , 8,	5.4	35
117	The distinctive phase stability and defect physics in CsPbI ₂ Br perovskite. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20201-20207	13	34
116	Modulating Metal-Organic Frameworks as Advanced Oxygen Electrocatalysts. <i>Advanced Energy Materials</i> , 2021 , 11, 2003291	21.8	34
115	Synthesis of visible-light-driven BiOBr _x I _{1-x} solid solution nanoplates by ultrasound-assisted hydrolysis method with tunable bandgap and superior photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2018 , 732, 167-177	5.7	33
114	Simple fabrication of free-standing ZnO/graphene/carbon nanotube composite anode for lithium-ion batteries. <i>Materials Letters</i> , 2016 , 184, 235-238	3.3	33
113	Nitrogen-Doped Carbon-Encapsulated Antimony Sulfide Nanowires Enable High Rate Capability and Cyclic Stability for Sodium-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2019 , 2, 1457-1465	5.6	32
112	Aligned sulfur-deficient ZnS _{1-x} nanotube arrays as efficient catalyzer for high-performance lithium/sulfur batteries. <i>Nano Energy</i> , 2021 , 84, 105891	17.1	31
111	Synergistic effect of Cu-ion and WO ₃ nanofibers on the enhanced photocatalytic degradation of Rhodamine B and aniline solution. <i>Applied Surface Science</i> , 2018 , 451, 306-314	6.7	30
110	Conductive FeOOH as Multifunctional Interlayer for Superior Lithium-Sulfur Batteries. <i>Small</i> , 2020 , 16, e2002789	11	30
109	Broadband optical absorption enhancement in silicon nanofunnel arrays for photovoltaic applications. <i>Applied Physics Letters</i> , 2012 , 100, 223902	3.4	27

108	Amorphizing metal-organic framework towards multifunctional polysulfide barrier for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2021 , 86, 106094	17.1	27
107	A MoS@SnS heterostructure for sodium-ion storage with enhanced kinetics. <i>Nanoscale</i> , 2020 , 12, 14689-14698	14.7	26
106	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> , 2019 , 375, 122055	14.7	24
105	Synthesis and characterization of mesoporous BiVO ₄ nanofibers with enhanced photocatalytic water oxidation performance. <i>Applied Surface Science</i> , 2019 , 481, 255-261	6.7	24
104	Synthesis of Mesoporous ZnO Nanosheets via Facile Solvothermal Method as the Anode Materials for Lithium-ion Batteries. <i>Nanoscale Research Letters</i> , 2016 , 11, 37	5	23
103	A simple capillary-based open microfluidic device for size on-demand high-throughput droplet/bubble/microcapsule generation. <i>Lab on A Chip</i> , 2018 , 18, 2806-2815	7.2	23
102	Deciphering interpenetrated interface of transition metal oxides/phosphates from atomic level for reliable Li/S electrocatalytic behavior. <i>Nano Energy</i> , 2021 , 81, 105602	17.1	23
101	Engineering Oversaturated Fe-N Multifunctional Catalytic Sites for Durable Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26622-26629	16.4	23
100	Electrolyte Design for Lithium Metal Anode-Based Batteries Toward Extreme Temperature Application. <i>Advanced Science</i> , 2021 , 8, e2101051	13.6	22
99	Dissolving Vanadium into Titanium Nitride Lattice Framework for Rational Polysulfide Regulation in LiS Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003020	21.8	22
98	Constructing novel WO ₃ /Fe(III) nanofibers photocatalysts with enhanced visible-light-driven photocatalytic activity via interfacial charge transfer effect. <i>Materials Today Energy</i> , 2017 , 3, 45-52	7	21
97	Soft on rigid nanohybrid as the self-supporting multifunctional cathode electrocatalyst for high-performance lithium-polysulfide batteries. <i>Nano Energy</i> , 2020 , 78, 105293	17.1	21
96	Enhanced Photocatalytic H ₂ Evolution over ZnInS Flower-Like Microspheres Doped with Black Phosphorus Quantum Dots. <i>Nanomaterials</i> , 2019 , 9,	5.4	20
95	Synthesis of barbituric acid doped carbon nitride for efficient solar-driven photocatalytic degradation of aniline. <i>Applied Surface Science</i> , 2018 , 428, 739-747	6.7	19
94	Direct Growth of Oxygen Vacancy-Enriched CoO Nanosheets on Carbon Nanotubes for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4419-4428	9.5	19
93	Hierarchical Micro-Nanoclusters of Bimetallic Layered Hydroxide Polyhedrons as Advanced Sulfur Reservoir for High-Performance Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2021 , 8, 2003400	13.6	19
92	Two-Dimensional CeO/RGO Composite-Modified Separator for Lithium/Sulfur Batteries. <i>Nanoscale Research Letters</i> , 2018 , 13, 377	5	19
91	Effective silicon nanowire arrays/WO ₃ core/shell photoelectrode for neutral pH water splitting. <i>Nanotechnology</i> , 2017 , 28, 275401	3.4	18

90	Interfacial Complexation Induced Controllable Fabrication of Stable Polyelectrolyte Microcapsules Using All-Aqueous Droplet Microfluidics for Enzyme Release. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21227-21238	9.5	18
89	Flower-like Cu ₂ S Nanosphere Nanomaterials with High Crystallinity for Sodium Storage. <i>Nanomaterials</i> , 2018 , 8,	5.4	18
88	Design of Quasi-MOF Nanospheres as a Dynamic Electrocatalyst toward Accelerated Sulfur Reduction Reaction for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021 , e2105541 ²⁴	24	18
87	Formic acid decomposition-inhibited intermetallic Pd ₃ Sn ₂ nanonetworks for efficient formic acid electrooxidation. <i>Journal of Power Sources</i> , 2020 , 450, 227615	8.9	17
86	Synthesis and Investigation of CuGeO Nanowires as Anode Materials for Advanced Sodium-Ion Batteries. <i>Nanoscale Research Letters</i> , 2018 , 13, 193	5	17
85	Bauna Activation toward Intrinsic Lattice Deficiency in Carbon Nanotube Microspheres for High-Energy and Long-Lasting Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100497	21.8	16
84	Novel silicon nanowire film on copper foil as high performance anode for lithium-ion batteries. <i>Ionics</i> , 2018 , 24, 373-378	2.7	16
83	MnSe embedded in carbon nanofibers as advanced anode material for sodium ion batteries. <i>Nanotechnology</i> , 2020 , 31, 335402	3.4	15
82	First-Principles Study of Optoelectronic Properties of the Noble Metal (Ag and Pd) Doped BiOX (X = F, Cl, Br, and I) Photocatalytic System. <i>Catalysts</i> , 2019 , 9, 198	4	14
81	Promoting Ge Alloying Reaction via Heterostructure Engineering for High Efficient and Ultra-Stable Sodium-Ion Storage. <i>Advanced Science</i> , 2020 , 7, 2002358	13.6	14
80	CuSe Nanoparticles Encapsulated by Nitrogen-Doped Carbon Nanofibers for Efficient Sodium Storage. <i>Nanomaterials</i> , 2020 , 10,	5.4	13
79	Modified Si nanowire/graphite-like carbon nitride core-shell photoanodes for solar water splitting. <i>Electrochemistry Communications</i> , 2018 , 87, 13-17	5.1	13
78	Single crystalline ordered silicon wire/Pt nanoparticle hybrids for solar energy harvesting. <i>Electrochemistry Communications</i> , 2010 , 12, 509-512	5.1	13
77	Rational Construction of Sulfur-Deficient NiCo ₂ S ₄ Hollow Microspheres as an Effective Polysulfide Immobilizer toward High-Performance Lithium/Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1687-1695	6.1	13
76	Nitrogen defects-rich porous graphitic carbon nitride for efficient photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2020 , 578, 788-795	9.3	12
75	Surface-Induced 2D/1D Heterostructured Growth of ReS/CoS for High-Performance Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33586-33594	9.5	12
74	Integration of NaV ₆ O ₁₅ ·nH ₂ O nanowires and rGO as cathode materials for efficient sodium storage. <i>Applied Surface Science</i> , 2019 , 494, 458-464	6.7	12
73	Water Splitting Performance Enhancement of the TiO ₂ Nanorod Array Electrode with Ultrathin Black Phosphorus Nanosheets. <i>ChemElectroChem</i> , 2020 , 7, 96-104	4.3	12

72	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
71	Three-dimensional carbon cloth-supported ZnO nanorod arrays as a binder-free anode for lithium-ion batteries. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1	2.3	10
70	Synthesis of highly defective hollow double-shelled Co ₃ O ₄ microspheres as sulfur host for high-performance lithium-sulfur batteries. <i>Materials Letters</i> , 2019, 255, 126581	3.3	10
69	Lithium Pre-cycling Induced Fast Kinetics of Commercial Sb ₂ S ₃ Anode for Advanced Sodium Storage. <i>Energy and Environmental Materials</i> , 2019, 2, 209-215	13	10
68	Hierarchically Porous TiC MXene with Tunable Active Edges and Unsaturated Coordination Bonds for Superior Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021,	16.7	10
67	Highly conductive VC embedded in carbon matrix as effective trapper and catalyst for Li-S batteries. <i>Chemical Communications</i> , 2020, 56, 14295-14298	5.8	10
66	Cu ₃ Ge coated by nitrogen-doped carbon nanorods as advanced sodium-ion battery anodes. <i>Ionics</i> , 2020, 26, 719-726	2.7	10
65	Fe ₇ Se ₈ encapsulated in N-doped carbon nanofibers as a stable anode material for sodium ion batteries. <i>Nanoscale Advances</i> , 2021, 3, 231-239	5.1	10
64	Design Zwitterionic Amorphous Conjugated Micro-/Mesoporous Polymer Assembled Nanotentacle as Highly Efficient Sulfur Electrocatalyst for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101926	21.8	10
63	Multi-functional carbon cloth infused with N-doped and Co-coated carbon nanofibers as a current collector for ultra-stable lithium-sulfur batteries. <i>Materials Letters</i> , 2019, 255, 126595	3.3	9
62	Nano-bridged nanosphere lithography. <i>Nanotechnology</i> , 2020, 31, 245302	3.4	9
61	High-Performance Silicon Nanowire Array Photoelectrochemical Solar Cells through Surface Passivation and Modification. <i>Angewandte Chemie</i> , 2011, 123, 10035-10039	3.6	9
60	Enhanced performance of dye-sensitized solar cells anodes modified with black phosphorus nanosheets. <i>Journal of Materials Science</i> , 2020, 55, 5499-5509	4.3	9
59	Amorphous Ti(IV)-modified flower-like ZnIn ₂ S ₄ microspheres with enhanced hydrogen evolution photocatalytic activity and simultaneous wastewater purification. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2693-2699	7.1	9
58	Lotus Root-Like Nitrogen-Doped Carbon Nanofiber Structure Assembled with VN Catalysts as a Multifunctional Host for Superior Lithium-Sulfur Batteries. <i>Nanomaterials</i> , 2019, 9,	5.4	9
57	Defect engineering on three-dimensionally ordered macroporous phosphorus doped Co ₃ O ₄ microspheres as an efficient bifunctional electrocatalyst for Zn-air batteries. <i>Energy Storage Materials</i> , 2021, 41, 427-435	19.4	9
56	Ordered multiferroic CoFe ₂ O ₄ Bb(Zr _{0.52} Ti _{0.48})O ₃ coaxial nanotube arrays with enhanced magnetoelectric coupling. <i>RSC Advances</i> , 2017, 7, 29096-29102	3.7	8
55	Improving lithium storage capability of ternary Sn-based sulfides by enhancing inactive/active element ratio. <i>Solid State Ionics</i> , 2019, 337, 47-55	3.3	8

54	Influence of the Facets of Bi ₂₄ O ₃₁ Br ₁₀ Nanobelts and Nanosheets on Their Photocatalytic Properties. <i>Catalysts</i> , 2020 , 10, 257	4	8
53	Nitrogen-doped carbon nanotubes coated with zinc oxide nanoparticles as sulfur encapsulator for high-performance lithium/sulfur batteries. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1677-1685	3	8
52	Visible-light-driven Ag/AgCl@In ₂ O ₃ : a ternary photocatalyst for the degradation of tetracycline antibiotics. <i>Catalysis Science and Technology</i> , 2020 , 10, 8230-8239	5.5	8
51	Vanadium nitride-decorated lotus root-like NCNFs as 3D current collector for Li-S batteries. <i>Materials Letters</i> , 2019 , 236, 240-243	3.3	8
50	Bimetallic Hollow Tubular NiCoO as a Bifunctional Electrocatalyst for Enhanced Oxygen Reduction and Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7334-7342	9.5	8
49	In Situ Synthesis of All-Solid-State Z-Scheme BiOBr/Ag/AgI Photocatalysts with Enhanced Photocatalytic Activity Under Visible Light Irradiation. <i>Nanoscale Research Letters</i> , 2018 , 13, 368	5	8
48	Porous organic polymers for Li-chemistry-based batteries: functionalities and characterization studies.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	8
47	Two-dimensional Materials for all-solid-state Lithium Batteries.. <i>Advanced Materials</i> , 2021 , e2108079	24	8
46	Interconnected nitrogen-doped carbon nanofibers derived from polypyrrole for high-performance Li/S batteries. <i>Russian Journal of Applied Chemistry</i> , 2016 , 89, 1336-1340	0.8	7
45	Interspersing Partially Oxidized VC Nanosheets and Carbon Nanotubes toward Multifunctional Polysulfide Barriers for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56085-56094	9.5	7
44	A Full Li-S Battery with Ultralow Excessive Li Enabled via Lithiophilic and Sulfilic W C Modulation. <i>Chemistry - A European Journal</i> , 2020 , 26, 16057-16065	4.8	7
43	Chemical vapor deposition of amorphous molybdenum sulphide on black phosphorus for photoelectrochemical water splitting. <i>Journal of Materials Science and Technology</i> , 2021 , 68, 1-7	9.1	7
42	Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a High-Efficiency Lithium Polysulfide Conversion Process. <i>Angewandte Chemie</i> , 2021 , 133, 2401-2408	3.6	7
41	The Ternary Heterostructures of BiOBr/Ultrathin g-C ₃ N ₄ /Black Phosphorous Quantum Dot Composites for Photodegradation of Tetracycline. <i>Polymers</i> , 2018 , 10,	4.5	7
40	Sb ₂ S ₃ nanoparticles anchored on N-doped 3D carbon nanofibers as anode material for sodium ion batteries with improved electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2021 , 881, 160594	5.7	7
39	Microfluidic-Assisted Fabrication of Monodisperse Core-Shell Microcapsules for Pressure-Sensitive Adhesive with Enhanced Performance. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
38	Facile Construction of Metal-Free g-C ₃ N ₄ Isotype Heterojunction with Highly Enhanced Visible-light Photocatalytic Performance. <i>ChemistrySelect</i> , 2017 , 2, 6970-6978	1.8	6
37	Extraordinary optical transmission in nano-bridged plasmonic arrays mimicking a stable weakly-connected percolation threshold. <i>Optics Express</i> , 2020 , 28, 31425-31435	3.3	6

36	Plasmonic refraction-induced ultrahigh transparency of highly conducting metallic networks. <i>Laser and Photonics Reviews</i> , 2016 , 10, 465-472	8.3	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> , 2021 , 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> , 2021 , 417, 129248	14.7	6
33	Nano-crumpled induced Sn-Bi bimetallic interface pattern with moderate electron bank for highly efficient CO electroreduction.. <i>Nature Communications</i> , 2022 , 13, 2486	17.4	6
32	Carbon nanotubes/SiC prepared by catalytic chemical vapor deposition as scaffold for improved lithium-sulfur batteries. <i>Journal of Nanoparticle Research</i> , 2019 , 21, 1	2.3	5
31	Reduced Graphene Oxide Boosted Ultrafine Cu ₂ SnS ₃ Nanoparticles for High-performance Sodium Storage. <i>ChemElectroChem</i> , 2019 , 6, 2949-2955	4.3	5
30	Broadband photoluminescence of silicon nanowires excited by near-infrared continuous wave lasers. <i>Optics and Laser Technology</i> , 2018 , 99, 81-85	4.2	4
29	Oxidized Nb ₂ 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> , 2022 ,	9.1	4
28	In-situ constructed accordion-like Nb ₂ C/Nb ₂ O ₅ heterostructure as efficient catalyzer towards high-performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2022 , 520, 230902	8.9	4
27	Novel 2D/2D BiOBr/UMOFNs direct Z-scheme photocatalyst for efficient phenol degradation. <i>Nanotechnology</i> , 2021 , 32, 045711	3.4	4
26	Unusual Mechanism Behind Enhanced Photocatalytic Activity and Surface Passivation of SiC(0001) via Forming Heterostructure with a MoS ₂ Monolayer. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1362-1368	3.8	4
25	Ethylene Glycol Electrochemical Reforming Using Ruthenium Nanoparticle-Decorated Nickel Phosphide Ultrathin Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42763-42772	9.5	4
24	MOF-derived magnetically recoverable Z-scheme ZnFe ₂ O ₄ /Fe ₂ O ₃ perforated nanotube for efficient photocatalytic ciprofloxacin removal. <i>Chemical Engineering Journal</i> , 2021 , 430, 132728	14.7	4
23	Hematite photoanode modified with inexpensive hole-storage layer for highly efficient solar water oxidation. <i>Nanotechnology</i> , 2020 , 31, 455405	3.4	3
22	Stable Copper Tin Sulfide Nanoflower Modified Carbon Quantum Dots for Improved Supercapacitors. <i>Journal of Chemistry</i> , 2019 , 2019, 1-5	2.3	3
21	Unexpected bowing band evolution in an all-inorganic CsSn Pb Br perovskite.. <i>RSC Advances</i> , 2020 , 10, 26407-26413	3.7	3
20	Novel Fe ₂ O ₃ /PZT Nanorods for Ferroelectric Polarization-Enhanced Photoelectrochemical Water Splitting. <i>Energy & Fuels</i> , 2020 , 34, 16927-16935	4.1	3
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17	The fabrication of a 3D current collector with bitter melon-like TiO ₂ @CNFs for highly stable lithium-sulfur batteries. <i>Nanoscale Advances</i> , 2019 , 1, 527-531	5.1	2
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13	Engineering the 3D framework of defective phosphorene-based sulfur cathodes for high-efficiency lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2021 , 392, 139025	6.7	2
12	Synthesis of ZnO/Polypyrrole Nanoring Composite as High-Performance Anode Materials for Lithium Ion Batteries. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-8	3.2	1
11	Synthesis of Double-Shelled [email-protected] Nanocages through a Spray-Drying Process as an Advanced Sulfur Reservoir for Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 12623-12630	6.1	1
10	Fe-doped Co-N/C as effective electrocatalyst for oxygen reaction. <i>Materials Research Express</i> , 2020 , 7, 085002	1.7	1
9	Engineering Oversaturated Fe-N ₅ Multifunctional Catalytic Sites for Durable Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> ,	3.6	1
8	Engineering checkerboard-like heterostructured sulfur electrocatalyst towards high-performance lithium sulfur batteries. <i>Chemical Engineering Journal</i> , 2022 , 440, 135990	14.7	1
7	Enhanced polysulfide redox kinetics by niobium oxynitrides via in-situ adsorptive and catalytic effect in wide temperature range. <i>Nano Research</i> , 1	10	1
6	Preparation of high purity crystalline silicon by electro-catalytic reduction of sodium hexafluorosilicate with sodium below 180 °C. <i>PLoS ONE</i> , 2014 , 9, e105537	3.7	0
5	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> , 2022 , 115, 140-147	9.1	0
4	Freestanding carbon nanofibers encapsulating MOF-derived NiSe with in-situ porous carbon protective layer for sodium storage. <i>Applied Surface Science</i> , 2022 , 579, 152181	6.7	0
3	The electrochemical reforming of glycerol at Pd nanocrystals modified ultrathin NiO nanoplates hybrids: An efficient system for glyceraldehyde and hydrogen coproduction. <i>Nano Research</i> , 1	10	0
2	Copolymerization of urea and murexide for efficient photocatalytic hydrogen evolution and tetracycline degradation. <i>New Journal of Chemistry</i> , 2021 , 45, 1977-1983	3.6	0
1	Structure modification of Ni-rich layered oxide cathode toward advanced lithium-ion batteries. <i>Journal of Materials Research</i> ,	2.5	

