

Yuanfu Chen

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181
papers

8,564
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185
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10,499
ext. citations

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L-index

#	Paper	IF	Citations
181	Yolk-Shelled C@Fe O Nanoboxes as Efficient Sulfur Hosts for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1702707	24	370
180	Vertical Co ₉ S ₈ hollow nanowall arrays grown on a Celgard separator as a multifunctional polysulfide barrier for high-performance LiS batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 2560-2568	35.4	365
179	Freestanding 1T MoS ₂ /graphene heterostructures as a highly efficient electrocatalyst for lithium polysulfides in LiS batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 344-350	35.4	355
178	From Metal-Organic Framework to LiS@C-Co-N Nanoporous Architecture: A High-Capacity Cathode for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2016 , 10, 10981-10987	16.7	241
177	Three-dimensional CNT/graphene-sulfur hybrid sponges with high sulfur loading as superior-capacity cathodes for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18605-18610	13.1	182
176	Three-Dimensional Hierarchical Reduced Graphene Oxide/Tellurium Nanowires: A High-Performance Freestanding Cathode for Li-Te Batteries. <i>ACS Nano</i> , 2016 , 10, 8837-42	16.7	164
175	Graphene-coated microfiber Bragg grating for high-sensitivity gas sensing. <i>Optics Letters</i> , 2014 , 39, 1235-7	5.7	148
174	Metal Sulfide-Decorated Carbon Sponge as a Highly Efficient Electrocatalyst and Absorbant for Polysulfide in High-Loading Li ₂ S Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1900584	21.8	147
173	Three-Dimensional Hierarchical : A Highly Efficient Freestanding Cathode for LiSe Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 16-20	20.1	145
172	Three-Dimensional CNT/Graphene-Li ₂ S Aerogel as Freestanding Cathode for High-Performance LiS Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 820-826	20.1	133
171	Self-Assembled Coral-like Hierarchical Architecture Constructed by NiSe Nanocrystals with Comparable Hydrogen-Evolution Performance of Precious Platinum Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7154-7159	9.5	128
170	In situ synthesis of hierarchical MoSe ₂ /CoSe ₂ nanotubes as an efficient electrocatalyst for the hydrogen evolution reaction in both acidic and alkaline media. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7842-7850	13	124
169	Graphene-like WSe ₂ nanosheets for efficient and stable hydrogen evolution. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 698-704	5.7	119
168	MOF-derived Cobalt Sulfide Grown on 3D Graphene Foam as an Efficient Sulfur Host for Long-Life Lithium-Sulfur Batteries. <i>IScience</i> , 2018 , 4, 36-43	6.1	117
167	Three-dimensional hierarchically structured aerogels constructed with layered MoS ₂ /graphene nanosheets as free-standing anodes for high-performance lithium ion batteries. <i>Electrochimica Acta</i> , 2016 , 215, 12-18	6.7	112
166	Self-assembled CoS ₂ nanoparticles wrapped by CoS ₂ -quantum-dots-anchored graphene nanosheets as superior-capability anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015 , 182, 424-429	6.7	111
165	Pure thiophene-sulfur doped reduced graphene oxide: synthesis, structure, and electrical properties. <i>Nanoscale</i> , 2014 , 6, 7281-7	7.7	105

164	Highly-flexible 3D Li ₂ S/graphene cathode for high-performance lithium sulfur batteries. <i>Journal of Power Sources</i> , 2016 , 327, 474-480	8.9	104
163	Self-assembled pearl-bracelet-like CoSe ₂ /SnSe ₂ /CNT hollow architecture as highly efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1655-1662	13	102
162	Interwoven WSe ₂ /CNTs hybrid network: A highly efficient and stable electrocatalyst for hydrogen evolution. <i>Electrochemistry Communications</i> , 2016 , 72, 74-78	5.1	102
161	Direct impregnation of SeS ₂ into a MOF-derived 3D nanoporous Co ₃ (OH) ₂ (CO ₃) ₂ architecture towards superior rechargeable lithium batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10466-10473	13	101
160	Tellurium-Impregnated Porous Cobalt-Doped Carbon Polyhedra as Superior Cathodes for Lithium-Tellurium Batteries. <i>ACS Nano</i> , 2017 , 11, 8144-8152	16.7	99
159	Nanocrystalline CoSe Anchored on Graphene Nanosheets as a Highly Efficient and Stable Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30703-30710	9.5	98
158	CoSe ₂ nanoparticles embedded MOF-derived Co-N-C nanoflake arrays as efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117996	21.8	95
157	Self-assembled cauliflower-like FeS ₂ anchored into graphene foam as free-standing anode for high-performance lithium-ion batteries. <i>Carbon</i> , 2017 , 114, 111-116	10.4	93
156	Few-layered WSe ₂ nanoflowers anchored on graphene nanosheets: a highly efficient and stable electrocatalyst for hydrogen evolution. <i>Electrochimica Acta</i> , 2016 , 222, 1293-1299	6.7	93
155	All-optical Mach-Zehnder interferometric NH ₃ gas sensor based on graphene/microfiber hybrid waveguide. <i>Sensors and Actuators B: Chemical</i> , 2014 , 194, 142-148	8.5	93
154	Phosphorus-doped reduced graphene oxide as an electrocatalyst counter electrode in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 263, 246-251	8.9	93
153	Few-layered ReS ₂ nanosheets grown on carbon nanotubes: A highly efficient anode for high-performance lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2017 , 315, 10-17	14.7	89
152	Hierarchically Porous W-Doped CoP Nanoflake Arrays as Highly Efficient and Stable Electrocatalyst for pH-Universal Hydrogen Evolution. <i>Small</i> , 2019 , 15, e1902613	11	87
151	The ambipolar transport behavior of WSe ₂ transistors and its analogue circuits. <i>NPG Asia Materials</i> , 2018 , 10, 703-712	10.3	86
150	Self-assembled chrysanthemum-like microspheres constructed by few-layer ReSe ₂ nanosheets as a highly efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2017 , 224, 593-599	6.7	85
149	Nanocrystalline Ni _{0.85} Se as Efficient Non-noble-metal Electrocatalyst for Hydrogen Evolution Reaction. <i>Electrochimica Acta</i> , 2017 , 242, 25-30	6.7	80
148	1T'-ReS ₂ Nanosheets In Situ Grown on Carbon Nanotubes as a Highly Efficient Polysulfide Electrocatalyst for Stable LiS Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001017	21.8	80
147	Scalable synthesis of porous hollow CoSe ₂ /MoSe ₂ /carbon microspheres for highly efficient hydrogen evolution reaction in acidic and alkaline media. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12701-12707	13	80

146	Self-assembled CoSe ₂ nanocrystals embedded into carbon nanowires as highly efficient catalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2017 , 231, 626-631	6.7	79
145	CoP nanosheets in-situ grown on N-doped graphene as an efficient and stable bifunctional electrocatalyst for hydrogen and oxygen evolution reactions. <i>Electrochimica Acta</i> , 2019 , 307, 543-552	6.7	79
144	In-situ Selenization of Co-based Metal-Organic Frameworks as a Highly Efficient Electrocatalyst for Hydrogen Evolution Reaction. <i>Electrochimica Acta</i> , 2017 , 247, 258-264	6.7	79
143	Ultrafast ammonia-driven, microwave-assisted synthesis of nitrogen-doped graphene quantum dots and their optical properties. <i>Nanophotonics</i> , 2017 , 6, 259-267	6.3	74
142	Graphene terahertz modulators by ionic liquid gating. <i>Advanced Materials</i> , 2015 , 27, 1874-9	24	73
141	NiSe ₂ nanoparticles embedded in CNT networks: Scalable synthesis and superior electrocatalytic activity for the hydrogen evolution reaction. <i>Electrochemistry Communications</i> , 2017 , 83, 51-55	5.1	72
140	Three-dimensional structure of WS ₂ /graphene/Ni as a binder-free electrocatalytic electrode for highly effective and stable hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 7811-7819	6.7	68
139	Synthesis of nitrogen-doped graphene by chemical vapour deposition using melamine as the sole solid source of carbon and nitrogen. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7396	7.1	68
138	Graphene/liquid crystal based terahertz phase shifters. <i>Optics Express</i> , 2013 , 21, 21395-402	3.3	68
137	3D-hierarchical MoSe ₂ nanoarchitecture as a highly efficient electrocatalyst for hydrogen evolution. <i>2D Materials</i> , 2017 , 4, 025092	5.9	67
136	Co _{0.85} Se hollow nanospheres anchored on N-doped graphene nanosheets as highly efficient, nonprecious electrocatalyst for hydrogen evolution reaction in both acid and alkaline media. <i>Journal of Power Sources</i> , 2018 , 400, 232-241	8.9	67
135	Pomegranate-Like Silicon/Nitrogen-doped Graphene Microspheres as Superior-Capacity Anode for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2016 , 215, 667-673	6.7	64
134	Three-dimensional hierarchical C-Co-N/Se derived from metal-organic framework as superior cathode for Li-Se batteries. <i>Journal of Power Sources</i> , 2017 , 363, 103-109	8.9	64
133	1T-MoS ₂ nanotubes wrapped with N-doped graphene as highly-efficient absorbent and electrocatalyst for LiB batteries. <i>Journal of Power Sources</i> , 2020 , 447, 227364	8.9	64
132	WC nanodot-decorated CNT networks as a highly efficient and stable electrocatalyst for hydrogen evolution in acidic and alkaline media. <i>Nanoscale</i> , 2019 , 11, 4876-4884	7.7	63
131	Heterogeneous CoFe ₁₀ O ₈ FeS ₈ nanoparticles embedded in CNT networks as highly efficient and stable electrocatalysts for oxygen evolution reaction. <i>Journal of Power Sources</i> , 2019 , 433, 126688	8.9	61
130	Synthesis, characterization and electrical properties of silicon-doped graphene films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6301-6306	7.1	58
129	Enhanced Performance of Lithium Sulfur Battery with a Reduced Graphene Oxide Coating Separator. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A1624-A1629	3.9	57

128	Scalable synthesis of graphene-wrapped CoSe ₂ -SnSe ₂ hollow nanoboxes as a highly efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2017 , 255, 248-255	6.7	56
127	Three-dimensional VS ₄ /graphene hierarchical architecture as high-capacity anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 294-299	5.7	56
126	Hierarchical architecture of ReS ₂ /rGO composites with enhanced electrochemical properties for lithium-ion batteries. <i>Applied Surface Science</i> , 2017 , 413, 123-128	6.7	53
125	Mo ₂ C Nanodots Anchored on N-Doped Porous CNT Microspheres as Electrode for Efficient Li-Ion Storage. <i>Small Methods</i> , 2019 , 3, 1800287	12.8	53
124	Enhanced photocatalytic properties of graphene modified few-layered WSe ₂ nanosheets. <i>Applied Surface Science</i> , 2017 , 400, 420-425	6.7	51
123	Self-assembled interwoven CoS ₂ /CNTs/graphene architecture as anode for high-performance lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 708, 1178-1183	5.7	51
122	Mo ₂ C quantum dots@graphene functionalized separator toward high-current-density lithium metal anodes for ultrastable Li-S batteries. <i>Chemical Engineering Journal</i> , 2020 , 399, 125837	14.7	51
121	Nanocrystalline Co _{0.85} Se as a highly efficient non-noble-metal electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2017 , 247, 468-474	6.7	51
120	3D hollow Co-Fe-P nanoframes immobilized on N,P-doped CNT as an efficient electrocatalyst for overall water splitting. <i>Nanoscale</i> , 2019 , 11, 17031-17040	7.7	50
119	Scalable synthesis of Mo ₂ C/CNT networks as highly efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018 , 263, 192-200	6.7	50
118	Core/Shell Structure of NiSe ₂ Graphene for Hydrogen Evolution Reaction in Both Acidic and Alkaline Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4351-4359	8.3	50
117	Enhanced thermal and electrochemical properties of PVDF-HFP/PMMA polymer electrolyte by TiO ₂ nanoparticles. <i>Solid State Ionics</i> , 2015 , 282, 31-36	3.3	49
116	Scalable Synthesis of Heterogeneous W ₂ C Nanoparticle-Embedded CNT Networks for Boosted Hydrogen Evolution Reaction in Both Acidic and Alkaline Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10016-10024	8.3	47
115	Hierarchical MoSe ₂ -CoSe ₂ nanotubes anchored on graphene nanosheets: A highly efficient and stable electrocatalyst for hydrogen evolution in alkaline medium. <i>Electrochimica Acta</i> , 2019 , 299, 197-205	6.7	47
114	Interwoven CoSe ₂ /CNTs hybrid as a highly efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2017 , 253, 200-207	6.7	46
113	NiSe ₂ nanoparticles embedded in carbon nanowires as highly efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2017 , 254, 230-237	6.7	44
112	FeNi ₃ Fe ₃ O ₄ Heterogeneous Nanoparticles Anchored on 2D MOF Nanosheets/1D CNT Matrix as Highly Efficient Bifunctional Electrocatalysts for Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3820-3831	8.3	43
111	Metal-Organic Framework-Derived NiS/FeO Heterostructure-Decorated Carbon Nanotubes as Highly Efficient and Durable Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31552-31563	9.5	42

110	Key concepts behind forming-free resistive switching incorporated with rectifying transport properties. <i>Scientific Reports</i> , 2013 , 3, 2208	4.9	40
109	Three-dimensional CoS ₂ /RGO hierarchical architecture as superior-capability anode for lithium ion batteries. <i>RSC Advances</i> , 2015 , 5, 71790-71795	3.7	39
108	Self-assembled Ni ₂ P/FeP heterostructural nanoparticles embedded in N-doped graphene nanosheets as highly efficient and stable multifunctional electrocatalyst for water splitting. <i>Electrochimica Acta</i> , 2019 , 318, 449-459	6.7	38
107	Scalable synthesis of self-assembled bimetallic phosphide/N-doped graphene nanoflakes as an efficient electrocatalyst for overall water splitting. <i>Nanoscale</i> , 2019 , 11, 12837-12845	7.7	38
106	rGO wrapped trimetallic sulfide nanowires as an efficient bifunctional catalyst for electrocatalytic oxygen evolution and photocatalytic organic degradation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13558-13571	12.13	38
105	Synthesis of silicon-doped reduced graphene oxide and its applications in dye-sensitive solar cells and supercapacitors. <i>RSC Advances</i> , 2016 , 6, 15080-15086	3.7	38
104	3D chrysanthemum-like ReS ₂ microspheres composed of curly few-layered nanosheets with enhanced electrochemical properties for lithium-ion batteries. <i>Journal of Materials Science</i> , 2017 , 52, 3622-3629	4.3	38
103	Cobalt phosphide nanoparticles supported within network of N-doped carbon nanotubes as a multifunctional and scalable electrocatalyst for water splitting. <i>Journal of Energy Chemistry</i> , 2021 , 52, 130-138	12	37
102	NiSe ₂ nanocrystals anchored graphene nanosheets as highly efficient and stable electrocatalyst for hydrogen evolution reaction in alkaline medium. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 789-796	5.7	35
101	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 49-54	3.8	35
100	Wrinkled sulfur@graphene microspheres with high sulfur loading as superior-capacity cathode for LiS batteries. <i>Materials Today Energy</i> , 2016 , 1-2, 11-16	7	35
99	Organic carboxylate-based MOFs and derivatives for electrocatalytic water oxidation. <i>Coordination Chemistry Reviews</i> , 2021 , 428, 213619	23.2	35
98	In Situ Construction of Mo C Quantum Dots-Decorated CNT Networks as a Multifunctional Electrocatalyst for Advanced Lithium-Sulfur Batteries. <i>Small</i> , 2021 , 17, e2100460	11	34
97	Few-layered WSe ₂ in-situ grown on graphene nanosheets as efficient anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2018 , 283, 1660-1667	6.7	33
96	Origin of extra capacity in the solid electrolyte interphase near high-capacity iron carbide anodes for Li ion batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 2924-2937	35.4	31
95	CVD-grown three-dimensional sulfur-doped graphene as a binder-free electrocatalytic electrode for highly effective and stable hydrogen evolution reaction. <i>Journal of Materials Science</i> , 2018 , 53, 7767-7777	4.2	29
94	Hexagonal SnSe nanoplate supported SnO ₂ -CNTs nanoarchitecture for enhanced photocatalytic degradation under visible light driven. <i>Applied Surface Science</i> , 2020 , 507, 145026	6.7	29
93	Facile fabrication of RGO wrapped LiMn ₂ O ₄ nanorods as a cathode with enhanced specific capacity. <i>RSC Advances</i> , 2015 , 5, 80063-80068	3.7	28

92	A microwave-assisted bubble bursting strategy to grow Co ₈ FeS ₈ /CoS heterostructure on rearranged carbon nanotubes as efficient electrocatalyst for oxygen evolution reaction. <i>Journal of Power Sources</i> , 2020 , 449, 227561	8.9	28
91	Scalable Synthesis of Bimetallic Phosphide Decorated in Carbon Nanotube Network as Multifunctional Electrocatalyst for Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13031-13040	8.3	28
90	Demonstration of complex refractive index of graphene waveguide by microfiber-based Mach-Zehnder interferometer. <i>Optics Express</i> , 2013 , 21, 29818-26	3.3	28
89	Investigating the stability of molecule doped graphene field effect transistors. <i>New Journal of Chemistry</i> , 2019 , 43, 15275-15279	3.6	27
88	Self-assembled globular clusters-like cobalt hexacyanoferrate/carbon nanotubes hybrid as efficient nonprecious electrocatalyst for oxygen evolution reaction. <i>Journal of Power Sources</i> , 2019 , 434, 126670	8.9	27
87	Flexible terahertz modulator based on coplanar-gate graphene field-effect transistor structure. <i>Optics Letters</i> , 2016 , 41, 816-9	3	27
86	Few-layered ReS ₂ nanosheets grown on graphene as electrocatalyst for hydrogen evolution reaction. <i>Rare Metals</i> , 2018 , 37, 1014-1020	5.5	27
85	Vertical V-Doped CoP Nanowall Arrays as a Highly Efficient and Stable Electrocatalyst for the Hydrogen Evolution Reaction at all pH Values. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1027-1035	6.1	26
84	Fabrication of Enhancement-Mode AlGaN/GaN MISHEMTs by Using Fluorinated Al_2O_3 as Gate Dielectrics. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1373-1375	4.4	25
83	Significantly enhanced electrocatalytic properties of three-dimensional graphene foam via Ar plasma pretreatment and N, S co-doping. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27004-27012	6.7	24
82	Large-area synthesis of high-quality and uniform monolayer graphene without unexpected bilayer regions. <i>Journal of Alloys and Compounds</i> , 2014 , 615, 415-418	5.7	24
81	Towards large-scale graphene transfer. <i>Nanoscale</i> , 2020 , 12, 10890-10911	7.7	24
80	A co-coordination strategy to realize janus-type bimetallic phosphide as highly efficient and durable bifunctional catalyst for water splitting. <i>Journal of Materials Science and Technology</i> , 2021 , 74, 11-20	9.1	24
79	Constructing Ni/NiS Heteronanoparticle-Embedded Metal-Organic Framework-Derived Nanosheets for Enhanced Water-Splitting Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1920-1931	8.3	24
78	Effect of hydrogen on the growth of MoS ₂ thin layers by thermal decomposition method. <i>Vacuum</i> , 2015 , 119, 204-208	3.7	23
77	MOF derived multi-metal oxides anchored N, P-doped carbon matrix as efficient and durable electrocatalyst for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2021 , 581, 608-618	8.3	23
76	Facile growth of large-area and high-quality few-layer ReS ₂ by physical vapour deposition. <i>Materials Letters</i> , 2016 , 184, 324-327	3.3	22
75	FeNi nanoparticles embedded porous nitrogen-doped nanocarbon as efficient electrocatalyst for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2019 , 321, 134720	6.7	21

74	Self-assembled CNT/Ni _{0.85} Se-SnO ₂ networks as highly efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018 , 269, 155-162	6.7	21
73	Metal-Organic Framework-Derived Fe-Doped NiFe/NiFeO Heteronanoparticle-Decorated Carbon Nanotube Network as a Highly Efficient and Durable Bifunctional Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55782-55794	9.5	21
72	Enhanced power density of a supercapacitor by introducing 3D-interfacial graphene. <i>New Journal of Chemistry</i> , 2020 , 44, 13377-13381	3.6	21
71	Encapsulating hollow (Co,Fe)P nanoframes into N,P-codoped graphene aerogel for highly efficient water splitting. <i>Journal of Power Sources</i> , 2020 , 456, 228015	8.9	20
70	NiSe-anchored N, S-doped graphene/Ni foam as a free-standing bifunctional electrocatalyst for efficient water splitting. <i>Nanoscale</i> , 2020 , 12, 9866-9872	7.7	20
69	Double-shelled hollow bimetallic phosphide nanospheres anchored on nitrogen-doped graphene for boosting water electrolysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22222-22229	13	20
68	One-pot synthesis of graphene-wrapped NiSe ₂ -Ni _{0.85} Se hollow microspheres as superior and stable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018 , 291, 242-248	6.7	20
67	Significant enhancement of photocatalytic activity of multi-walled carbon nanotubes modified WSe ₂ composite. <i>Materials Letters</i> , 2017 , 197, 67-70	3.3	19
66	Three-dimensional Ni/Ni ₃ Fe embedded boron-doped carbon nanotubes nanochain frameworks as highly efficient and durable electrocatalyst for oxygen evolution reaction. <i>Journal of Power Sources</i> , 2020 , 451, 227753	8.9	19
65	One-pot synthesis of self-assembled coral-like hierarchical architecture constructed by polymorphic CoSe ₂ nanocrystals as superior electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018 , 277, 161-167	6.7	19
64	A three-dimensional porous CoSnS@CNT nanoarchitecture as a highly efficient bifunctional catalyst for boosted OER performance and photocatalytic degradation. <i>Nanoscale</i> , 2020 , 12, 3879-3887	7.7	18
63	Outstanding Catalytic Effects of 1TQMoTe Quantum Dots@3D Graphene in Shuttle-Free Li-S Batteries. <i>ACS Nano</i> , 2021 ,	16.7	18
62	Nanosecond pulse generation in a graphene mode-locked erbium-doped fiber laser. <i>Optics Communications</i> , 2014 , 330, 147-150	2	17
61	Three-dimensional porous nanoarchitecture constructed by ultrathin NiCoBOx nanosheets as a highly efficient and durable electrocatalyst for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2019 , 321, 134666	6.7	16
60	Air-stable n-type doping of graphene from overlying Si ₃ N ₄ film. <i>Applied Surface Science</i> , 2014 , 307, 712-715	15	16
59	Microwave transmission properties of chemical vapor deposition graphene. <i>Applied Physics Letters</i> , 2012 , 101, 053110	3.4	16
58	Graphene wrapped self-assembled Ni _{0.85} Se-SnO ₂ microspheres as highly efficient and stable electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018 , 283, 1146-1153	6.7	15
57	Growth and properties of large-area sulfur-doped graphene films. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7944-7949	7.1	15

56	Lithiophilic 3D VN@N-rGO as a Multifunctional Interlayer for Dendrite-Free and Ultrastable Lithium-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20125-20136	9.5	14
55	Synthesis of two-dimensional semiconductor single-crystal PtSe ₂ under high pressure. <i>Journal of Materials Science</i> , 2018 , 53, 1256-1263	4.3	13
54	Electronic Modulation of Hierarchical Spongy Nanosheets toward Efficient and Stable Water Electrolysis. <i>Small</i> , 2021 , 17, e2006881	11	13
53	Hierarchically porous nanoarchitecture constructed by ultrathin CoSe ₂ embedded Fe-CoO nanosheets as robust electrocatalyst for water oxidation. <i>Journal of Materials Science and Technology</i> , 2021 , 78, 229-237	9.1	12
52	Enhanced hydrogen evolution performance by covalent-linked ultrafine, uniform Pt nanoparticles with doped sulfur atoms in three-dimensional graphene. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 23231-23238	6.7	12
51	Self-assembled CoSe/carbon nanowires as a highly effective and stable electrocatalyst for the hydrogen evolution reaction.. <i>RSC Advances</i> , 2019 , 9, 17238-17245	3.7	11
50	Carbon Nanotube Modified V ₂ O ₅ Porous Microspheres as Cathodes for High-Performance Lithium-Ion Batteries. <i>Energy Technology</i> , 2017 , 5, 665-669	3.5	11
49	Hierarchical ultrathin layered MoS@NiFeO nanohybrids as a bifunctional catalyst for highly efficient oxygen evolution and organic pollutant degradation. <i>Journal of Colloid and Interface Science</i> , 2021 , 592, 385-396	9.3	11
48	CVD growth of large-area and high-quality HfS ₂ nanoforest on diverse substrates. <i>Applied Surface Science</i> , 2018 , 435, 563-567	6.7	11
47	Self-assembled CoSe-FeSe heteronanoparticles along the carbon nanotube network for boosted oxygen evolution reaction. <i>Nanoscale</i> , 2021 , 13, 9651-9658	7.7	11
46	Employing dual-ligand co-coordination compound to construct nanorod-like Bi-metallic (Fe, Co)P decorated with nitrogen-doped graphene for electrocatalytic overall water splitting. <i>Electrochimica Acta</i> , 2020 , 350, 136338	6.7	10
45	Flexible, transparent and high-power triboelectric generator with asymmetric graphene/ITO electrodes. <i>Nanotechnology</i> , 2016 , 27, 30LT01	3.4	10
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