

# Xiaobin Fan

## List of Publications by Citations

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146  
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7,889  
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41  
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ext. papers

9,424  
ext. citations

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L-index

#	Paper	IF	Citations
146	Deoxygenation of Exfoliated Graphite Oxide under Alkaline Conditions: A Green Route to Graphene Preparation. <i>Advanced Materials</i> , <b>2008</b> , 20, 4490-4493	24	1517
145	Nanoporous Ni(OH) <sub>2</sub> thin film on 3D Ultrathin-graphite foam for asymmetric supercapacitor. <i>ACS Nano</i> , <b>2013</b> , 7, 6237-43	16.7	925
144	Fast and Efficient Preparation of Exfoliated 2H MoS <sub>2</sub> Nanosheets by Sonication-Assisted Lithium Intercalation and Infrared Laser-Induced 1T to 2H Phase Reversion. <i>Nano Letters</i> , <b>2015</b> , 15, 5956-60	11.5	472
143	Multiple roles of graphene in heterogeneous catalysis. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 3023-35	58.5	271
142	Palladium nanoparticle-graphene hybrids as active catalysts for the Suzuki reaction. <i>Nano Research</i> , <b>2010</b> , 3, 429-437	10	261
141	Sulfonated graphene as water-tolerant solid acid catalyst. <i>Chemical Science</i> , <b>2011</b> , 2, 484-487	9.4	221
140	Controlled Exfoliation of MoS <sub>2</sub> Crystals into Trilayer Nanosheets. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5143-9	16.4	166
139	Graphene supported Au-Pd bimetallic nanoparticles with core-shell structures and superior peroxidase-like activities. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17658		152
138	Hierarchical Nanoroll-like MoS <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> hybrid with high electrocatalytic hydrogen evolution activity. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 241, 89-94	21.8	145
137	Reduced Graphene Oxide (rGO)/BiVO <sub>4</sub> Composites with Maximized Interfacial Coupling for Visible Light Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 2253-2258	8.3	140
136	Advanced Graphene-Based Binder-Free Electrodes for High-Performance Energy Storage. <i>Advanced Materials</i> , <b>2015</b> , 27, 5264-79	24	130
135	Poly(amidoamine) modified graphene oxide as an efficient adsorbent for heavy metal ions. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 2164	4.9	124
134	Catalytic Epoxidation of Olefins with Graphene Oxide Supported Copper (Salen) Complex. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 4232-4238	3.9	102
133	Polyaniline Derived N-Doped Carbon-Coated Cobalt Phosphide Nanoparticles Deposited on N-Doped Graphene as an Efficient Electrocatalyst for Hydrogen Evolution Reaction. <i>Small</i> , <b>2018</b> , 14, 1702895	11.95	99
132	1T-Phase MoS <sub>2</sub> Nanosheets on TiO <sub>2</sub> Nanorod Arrays: 3D Photoanode with Extraordinary Catalytic Performance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 5175-5182	8.3	85
131	Synthesis of partially hydrogenated graphene and brominated graphene. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 15021		80
130	High Yield Exfoliation of WS <sub>2</sub> Crystals into 1-2 Layer Semiconducting Nanosheets and Efficient Photocatalytic Hydrogen Evolution from WS <sub>2</sub> /CdS Nanorod Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 2810-2818	9.5	79

129	Roles of Two-Dimensional Transition Metal Dichalcogenides as Cocatalysts in Photocatalytic Hydrogen Evolution and Environmental Remediation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 4611-4626	3.9	77
128	Rhodium complex immobilized on graphene oxide as an efficient and recyclable catalyst for hydrogenation of cyclohexene. <i>Nanoscale</i> , <b>2013</b> , 5, 882-5	7.7	68
127	Heterostructure engineering of Co-doped MoS coupled with MoCT MXene for enhanced hydrogen evolution in alkaline media. <i>Nanoscale</i> , <b>2019</b> , 11, 10992-11000	7.7	67
126	Butyllithium-Treated TiCT MXene with Excellent Pseudocapacitor Performance. <i>ACS Nano</i> , <b>2019</b> , 13, 9449-9456	16.7	65
125	Rapid exfoliation of layered covalent triazine-based frameworks into N-doped quantum dots for the selective detection of Hg <sup>2+</sup> ions. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9272-9278	13	62
124	Modulating the Electronic Structure of Single-Atom Catalysts on 2D Nanomaterials for Enhanced Electrocatalytic Performance. <i>Small Methods</i> , <b>2019</b> , 3, 1800438	12.8	60
123	Metal-Organic-Framework-Based Photocatalysts Optimized by Spatially Separated Cocatalysts for Overall Water Splitting. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004747	24	58
122	Synthesis of nitrogen and sulfur co-doped reduced graphene oxide as efficient metal-free cocatalyst for the photo-activity enhancement of CdS. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 236, 212-221	21.8	57
121	Palladium Complex Immobilized on Graphene Oxide as an Efficient and Recyclable Catalyst for Suzuki Coupling Reaction. <i>Catalysis Letters</i> , <b>2014</b> , 144, 1617-1623	2.8	54
120	Ultra-small Mo <sub>2</sub> C nanodots encapsulated in nitrogen-doped porous carbon for pH-universal hydrogen evolution: insights into the synergistic enhancement of HER activity by nitrogen doping and structural defects. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4734-4743	13	53
119	Boosting aqueous zinc-ion storage in MoS <sub>2</sub> via controllable phase. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 124405	14.7	53
118	Controllable Synthesis of Ruthenium Phosphides (RuP and RuP <sub>2</sub> ) for pH-Universal Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 6388-6394	8.3	52
117	Hierarchical photocatalyst of In <sub>2</sub> S <sub>3</sub> on exfoliated MoS <sub>2</sub> nanosheets for enhanced visible-light-driven Aza-Henry reaction. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 288-294	21.8	49
116	Utilization of MoS <sub>2</sub> Nanosheets To Enhance the Photocatalytic Activity of ZnO for the Aerobic Oxidation of Benzyl Halides under Visible Light. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 8726-8732	3.9	47
115	TiCT nanosheets as photothermal agents for near-infrared responsive hydrogels. <i>Nanoscale</i> , <b>2018</b> , 10, 15387-15392	7.7	46
114	Combining palladium complex and organic amine on graphene oxide for promoted Tsuji-rost allylation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2609-2616	13	46
113	Exfoliated MoS <sub>2</sub> supported AuPd bimetallic nanoparticles with core-shell structures and superior peroxidase-like activities. <i>RSC Advances</i> , <b>2015</b> , 5, 10352-10357	3.7	45
112	Enhanced cycling performance of Si-MXene nanohybrids as anode for high performance lithium ion batteries. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122212	14.7	45

111	Reversible intercalation and exfoliation of layered covalent triazine frameworks for enhanced lithium ion storage. <i>Chemical Communications</i> , <b>2019</b> , 55, 1434-1437	5.8	44
110	(0D/3D) MoS <sub>2</sub> on porous graphene as catalysts for enhanced electrochemical hydrogen evolution. <i>Carbon</i> , <b>2017</b> , 121, 163-169	10.4	42
109	β-cyclodextrin functionalized graphene oxide: an efficient and recyclable adsorbent for the removal of dye pollutants. <i>Frontiers of Chemical Science and Engineering</i> , <b>2015</b> , 9, 77-83	4.5	42
108	Enhanced hydrogenation of olefins and ketones with a ruthenium complex covalently anchored on graphene oxide. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 15039	13	42
107	Few-Layered Trigonal WS Nanosheet-Coated Graphite Foam as an Efficient Free-Standing Electrode for a Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 30591-30598	9.5	42
106	Direct exfoliation of the anode graphite of used Li-ion batteries into few-layer graphene sheets: a green and high yield route to high-quality graphene preparation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 5880-5885	13	41
105	Utilization of MoS <sub>2</sub> and graphene to enhance the photocatalytic activity of Cu <sub>2</sub> O for oxidative C-C bond formation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 213, 1-8	21.8	40
104	NbSe <sub>2</sub> Nanosheet Supported PbBiO <sub>2</sub> Br as a High Performance Photocatalyst for the Visible Light-driven Asymmetric Alkylation of Aldehyde. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1017-1022	8.3	40
103	Poly(N-isopropylacrylamide) on two-dimensional graphene oxide surfaces. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 621	4.9	40
102	Hierarchical Cobalt Borate/MXenes Hybrid with Extraordinary Electrocatalytic Performance in Oxygen Evolution Reaction. <i>ChemSusChem</i> , <b>2018</b> , 11, 3758-3765	8.3	40
101	Lipase Immobilized on Graphene Oxide As Reusable Biocatalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 19878-19883	3.9	39
100	Synergy of nitrogen doping and structural defects on hierarchically porous carbons toward catalytic oxidation via a non-radical pathway. <i>Carbon</i> , <b>2019</b> , 155, 268-278	10.4	38
99	Phosphotungstic Acid Immobilized on Amine-Grafted Graphene Oxide as Acid/Base Bifunctional Catalyst for One-Pot Tandem Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 1437-1441	3.9	38
98	Metallic 1T phase MoS <sub>2</sub> nanosheets as a highly efficient co-catalyst for the photocatalytic hydrogen evolution of CdS nanorods. <i>RSC Advances</i> , <b>2016</b> , 6, 74394-74399	3.7	38
97	CoP nanoparticles combined with WS <sub>2</sub> nanosheets as efficient electrocatalytic hydrogen evolution reaction catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 3947-3954	6.7	37
96	The Promoting Role of Different Carbon Allotropes Cocatalysts for Semiconductors in Photocatalytic Energy Generation and Pollutants Degradation. <i>Frontiers in Chemistry</i> , <b>2017</b> , 5, 84	5	35
95	Eosin Y Covalently Anchored on Reduced Graphene Oxide as an Efficient and Recyclable Photocatalyst for the Aerobic Oxidation of Aryl Halogen Derivatives. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 468-474	8.3	35
94	Chemical activation of nitrogen and sulfur co-doped graphene as defect-rich carbocatalyst for electrochemical water splitting. <i>Carbon</i> , <b>2019</b> , 148, 540-549	10.4	34

93	Exfoliated MoS <sub>2</sub> with porous graphene nanosheets for enhanced electrochemical hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 13946-13952	6.7	33
92	High-performance porous graphene from synergetic nitrogen doping and physical activation for advanced nonradical oxidation. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 381, 121010	12.8	33
91	Rational Design of Fe/N/S-Doped Nanoporous Carbon Catalysts from Covalent Triazine Frameworks for Efficient Oxygen Reduction. <i>ChemSusChem</i> , <b>2018</b> , 11, 2402-2409	8.3	33
90	Facile Synthesis of High-Performance Nitrogen-Doped Hierarchically Porous Carbon for Catalytic Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 4236-4243	8.3	31
89	Microwave-assisted 1T to 2H phase reversion of MoS <sub>2</sub> in solution: a fast route to processable dispersions of 2H-MoS <sub>2</sub> nanosheets and nanocomposites. <i>Nanotechnology</i> , <b>2016</b> , 27, 385604	3.4	31
88	Cooperative catalysis by acid/base bifunctional graphene. <i>RSC Advances</i> , <b>2013</b> , 3, 13655	3.7	31
87	Cobalt nanoparticles embedded in N-doped carbon on carbon cloth as free-standing electrodes for electrochemically-assisted catalytic oxidation of phenol and overall water splitting. <i>Carbon</i> , <b>2019</b> , 155, 287-297	10.4	30
86	Multiple roles of a heterointerface in two-dimensional van der Waals heterostructures: insights into energy-related applications. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 23577-23603	13	30
85	VS <sub>2</sub> nanosheets vertically grown on graphene as high-performance cathodes for aqueous zinc-ion batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 477, 228652	8.9	30
84	Cu <sub>2</sub> O mesoporous spheres with a high internal diffusion capacity and improved catalytic ability for the aza-Henry reaction driven by visible light. <i>Chemical Communications</i> , <b>2014</b> , 50, 14237-40	5.8	29
83	3D self-supported Ni(PO)-MoO nanorods anchored on nickel foam for highly efficient overall water splitting. <i>Nanoscale</i> , <b>2018</b> , 10, 22173-22179	7.7	29
82	Green Route for Microwave-Assisted Preparation of AuAg-Alloy-Decorated Graphene Hybrids with Superior 4-NP Reduction Catalytic Activity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 17976-17980	3.9	28
81	Fabrication of flower-like MoS <sub>2</sub> /TiO <sub>2</sub> hybrid as an anode material for lithium ion batteries. <i>RSC Advances</i> , <b>2017</b> , 7, 38119-38124	3.7	28
80	Preferential Growth of the Cobalt (200) Facet in Co@Ni for Enhanced Performance in a Fenton-like Reaction. <i>ACS Catalysis</i> , <b>2021</b> , 11, 5532-5543	13.1	28
79	Photothermal enhanced enzymatic activity of lipase covalently immobilized on functionalized Ti <sub>3</sub> C <sub>2</sub> TX nanosheets. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122205	14.7	26
78	2D MXene-Based Materials for Electrocatalysis. <i>Transactions of Tianjin University</i> , <b>2020</b> , 26, 149-171	2.9	26
77	Nitrogen-doped graphene quantum dots decorated graphite foam as ultra-high active free-standing electrode for electrochemical hydrogen evolution and phenol degradation. <i>Chemical Engineering Science</i> , <b>2019</b> , 194, 54-57	4.4	26
76	A general strategy to prepare graphene-metal/metal oxide nanohybrids. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 14498		25

75	Fine-Tuning Radical/Nonradical Pathways on Graphene by Porous Engineering and Doping Strategies. <i>ACS Catalysis</i> , <b>2021</b> , 11, 4848-4861	13.1	24
74	Robust and smart gold nanoparticles: one-step synthesis, tunable optical property, and switchable catalytic activity. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6173		23
73	Near-Infrared Responsive MoS <sub>2</sub> /Poly(N-isopropylacrylamide) Hydrogels for Remote Light-Controlled Microvalves. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 4526-4531	3.9	21
72	Bifunctional Graphene-Based Metal-Free Catalysts for Oxidative Coupling of Amines. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 31844-31850	9.5	20
71	A near-infrared light-mediated antimicrobial based on Ag/TiCT for effective synergetic antibacterial applications. <i>Nanoscale</i> , <b>2020</b> , 12, 19129-19141	7.7	20
70	Thermo-sensitive graphene supported gold nanocatalyst: synthesis, characterization and catalytic performance. <i>RSC Advances</i> , <b>2013</b> , 3, 8973	3.7	19
69	Facile Synthesis of Atomic Fe-N-C Materials and Dual Roles Investigation of Fe-N Sites in Fenton-Like Reactions. <i>Advanced Science</i> , <b>2021</b> , 8, e2101824	13.6	19
68	Plasma-assisted synthesis of three-dimensional hierarchical NiFeOx/NiFeP electrocatalyst for highly enhanced water oxidation in alkaline media. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 26118-26127	6.7	18
67	Band-gap engineering of layered covalent organic frameworks via controllable exfoliation for enhanced visible-light-driven hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 2689-2698	6.7	18
66	Fabrication of a Cu <sub>2</sub> O/g-C <sub>3</sub> N <sub>4</sub> /WS <sub>2</sub> Triple-Layer Photocathode for Photoelectrochemical Hydrogen Evolution. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1498-1502	4.3	17
65	Synthesis of Palladium, ZnFe <sub>2</sub> O <sub>4</sub> Functionalized Reduced Graphene Oxide Nanocomposites as H <sub>2</sub> O <sub>2</sub> Detector. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 4327-4333	3.9	17
64	Improving the performance of a titanium carbide MXene in supercapacitors by partial oxidation treatment. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 1205-1211	6.8	17
63	CoP Nanoparticles Combined with WSe <sub>2</sub> Nanosheets: An Efficient Hybrid Catalyst for Electrocatalytic Hydrogen Evolution Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 483-489	3.9	17
62	Increasing the heteroatoms doping percentages of graphene by porous engineering for enhanced electrocatalytic activities. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 577, 101-108	9.3	16
61	Preparation of Cuprous Oxide Mesoporous Spheres with Different Pore Sizes for Non-Enzymatic Glucose Detection. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	16
60	General acid and base bifunctional graphene oxide for cooperative catalysis. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10239-10243	13	16
59	Fe containing template derived atomic Fe <sup>II</sup> to boost Fenton-like reaction and charge migration analysis on highly active Fe <sup>IV</sup> sites. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14793-14805	13	15
58	Partially Etched Ti ALC as a Promising High-Capacity Lithium-Ion Battery Anode. <i>ChemSusChem</i> , <b>2018</b> , 11, 2677-2680	8.3	15



57	Synthesis of nitrogen and sulfur doped graphene on graphite foam for electro-catalytic phenol degradation and water splitting. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 583, 139-148	9.3	14
56	Preparation of ultrathin molybdenum disulfide dispersed on graphene via cobalt doping: A bifunctional catalyst for hydrogen and oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 9583-9591	6.7	13
55	Decorated nickel phosphide nanoparticles with nitrogen and phosphorus co-doped porous carbon for enhanced electrochemical water splitting. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 567, 393-401	9.3	13
54	Chemoselective hydrodeoxygenation of palmitic acid to diesel-like hydrocarbons over Ni/MoO <sub>2</sub> @Mo <sub>2</sub> C <sub>2</sub> T <sub>x</sub> catalyst with extraordinary synergic effect. <i>Chemical Engineering Journal</i> , <b>2020</b> , 391, 123472	14.7	13
53	Chemically-confined mesoporous Fe <sub>2</sub> O <sub>3</sub> nanospheres with Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene via alkali treatment for enhanced lithium storage. <i>Journal of Power Sources</i> , <b>2021</b> , 495, 229758	8.9	13
52	Two-dimensional hierarchical Mn <sub>2</sub> O <sub>3</sub> @graphene as a high rate and ultrastable cathode for aqueous zinc-ion batteries. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 1326-1332	7.1	13
51	A VS <sub>2</sub> @N-doped carbon hybrid with strong interfacial interaction for high-performance rechargeable aqueous Zn-ion batteries. <i>Journal of Materials Chemistry C</i> ,	7.1	13
50	Synthesis of porous nitrogen doped carbon cage from carbide for catalytic oxidation. <i>Carbon</i> , <b>2020</b> , 163, 43-55	10.4	12
49	Easily Regenerated CuO/BAO for Persulfate-Based Catalytic Oxidation: Insights into the Deactivation and Regeneration Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 2630-2641	9.5	12
48	Multilevel N-doped carbon nanotube/graphene supported cobalt phosphide nanoparticles for electrocatalytic hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 30053-30061	6.7	11
47	Preparation of Hollow Cobalt-Iron Phosphides Nanospheres by Controllable Atom Migration for Enhanced Water Oxidation and Splitting. <i>Small</i> , <b>2021</b> , 17, e2007858	11	10
46	Gold nanoparticles supported on layered TiO <sub>2</sub> /BGO hybrid as an enhanced and recyclable catalyst for microwave-assisted hydration reaction. <i>RSC Advances</i> , <b>2016</b> , 6, 76151-76157	3.7	10
45	Covalent Triazine Framework Anchored with Co <sub>3</sub> O <sub>4</sub> Nanoparticles for Efficient Oxygen Reduction. <i>ChemElectroChem</i> , <b>2018</b> , 5, 717-721	4.3	10
44	TiO nanorod arrays decorated with exfoliated WS nanosheets for enhanced photoelectrochemical water oxidation. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 545, 282-288	9.3	9
43	Thermal removal of partial nitrogen atoms in N-doped graphene for enhanced catalytic oxidation. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 585, 640-648	9.3	9
42	MXene derivatives: synthesis and applications in energy conversion and storage.. <i>RSC Advances</i> , <b>2021</b> , 11, 16065-16082	3.7	9
41	Quadruple-responsive nanocomposite based on dextran-PMAA-PNIPAM, iron oxide nanoparticles, and gold nanorods. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 133-9	4.8	8
40	Functionalization of carbon and gold nanomaterials using PNIPAAm grafted dextran: a general route towards robust and smart nanomaterials. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 11290		8

39	Bamboo-like nitrogen-doped carbon nanotubes on iron mesh for electrochemically-assisted catalytic oxidation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124899	12.8	8
38	N-doped hierarchical porous metal-free catalysts derived from covalent triazine frameworks for the efficient oxygen reduction reaction. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 6606-6612	5.5	8
37	Magnetic Carbon Nanotubes for Protein Separation. <i>Journal of Nanomaterials</i> , <b>2012</b> , 2012, 1-6	3.2	7
36	Surface Phase Engineering Modulated Iron-Nickel Nitrides/Alloy Nanospheres with Tailored d-Band Center for Efficient Oxygen Evolution Reaction. <i>Small</i> , <b>2021</b> , e2105696	11	7
35	Cobalt phosphide nanoparticles anchored on molybdenum selenide nanosheets as high-performance electrocatalysts for water reduction. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 20346-20353	6.7	7
34	Vertically aligned 1 T phase MoS <sub>2</sub> nanosheet array for high-performance rechargeable aqueous Zn-ion batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 130981	14.7	7
33	Intercalated Graphite between Ni Foam and Ni <sub>3</sub> S <sub>2</sub> Nanocrystals for the Activity Promotion in Overall Water Splitting. <i>Energy Technology</i> , <b>2019</b> , 7, 1900063	3.5	6
32	Capillarity-induced disassembly of virions in carbon nanotubes. <i>Nanotechnology</i> , <b>2008</b> , 19, 165702	3.4	6
31	Synergistic Effect of N-Doped sp <sup>2</sup> Carbon and Porous Structure in Graphene Gels toward Selective Oxidation of C-H Bond. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 13087-13096	9.5	6
30	Transition Metal/Metal Oxide Interface (Ni <sub>2</sub> MoO <sub>7</sub> /Ni <sub>4</sub> Mo) Stabilized on N-Doped Carbon Paper for Enhanced Hydrogen Evolution Reaction in Alkaline Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 5145-5150	3.9	6
29	Ultra-small RuP <sub>x</sub> nanoparticles on graphene supported schiff-based networks for all pH hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 5717-5724	6.7	6
28	Photo-accelerated Co <sup>3+</sup> /Co <sup>2+</sup> transformation on cobalt and phosphorus co-doped g-C <sub>3</sub> N <sub>4</sub> for Fenton-like reaction. <i>Journal of Materials Chemistry A</i> ,	13	6
27	Decoration of CuO photocathode with protective TiO <sub>2</sub> and active WS layers for enhanced photoelectrochemical hydrogen evolution. <i>Nanotechnology</i> , <b>2018</b> , 29, 505603	3.4	6
26	Hierarchical Amorphous Carbon-Coated Co/Co <sub>9</sub> S <sub>8</sub> Nanoparticles on MoS <sub>2</sub> toward Synergetic Electrocatalytic Water Splitting. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 23093-23098	3.9	5
25	Magnetic Au-Ag-Fe <sub>3</sub> O <sub>4</sub> /rGO Nanocomposites as an Efficient Catalyst for the Reduction of 4-Nitrophenol. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	5
24	Nitrogen-carbon materials base on pyrolytic graphene hydrogel for oxygen reduction. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 602, 274-281	9.3	5
23	In situ N-doped CoS <sub>2</sub> anchored on MXene toward an efficient bifunctional catalyst for enhanced lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131792	14.7	5
22	Controllable Preparation of Ultrathin Sandwich-Like Membrane with Porous Organic Framework and Graphene Oxide for Molecular Filtration. <i>Scientific Reports</i> , <b>2015</b> , 5, 14961	4.9	4



21	Understanding of the electrochemical behaviors of aqueous zinc/manganese batteries: Reaction processes and failure mechanisms. <i>Green Energy and Environment</i> , <b>2021</b> ,	5.7	4
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18	Dual-Functionalized Covalent Triazine Framework Nanosheets as Hierarchical Nonviral Vectors for Intracellular Gene Delivery. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 4948-4955	5.6	3
17	Reduction of RGO by BH <sub>3</sub> : a facile route to partially hydrogenated RGO preparation. <i>RSC Advances</i> , <b>2014</b> , 4, 19226-19228	3.7	2
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15	Ni modified ultrafine Mo <sub>x</sub> C (x=1, 2) wrapped by nitrogen-doped carbon for efficient hydrogen evolution reaction in acid and alkaline electrolytes. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 28285-28293	6.7	2
14	Topochemical synthesis of low-dimensional nanomaterials. <i>Nanoscale</i> , <b>2020</b> , 12, 21971-21987	7.7	2
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9	Bimetallic ZIF-Derived Co/N-Codoped Porous Carbon Supported Ruthenium Catalysts for Highly Efficient Hydrogen Evolution Reaction. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
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