Xiaobin Fan

List of Publications by Year
in descending order

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		36203	33814
157	10,931	51	99
papers	citations	h-index	g-index

157	157	157	15272
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deoxygenation of Exfoliated Graphite Oxide under Alkaline Conditions: A Green Route to Graphene Preparation. Advanced Materials, 2008, 20, 4490-4493.	11.1	1,629
2	Nanoporous Ni(OH)₂ Thin Film on 3D Ultrathin-Graphite Foam for Asymmetric Supercapacitor. ACS Nano, 2013, 7, 6237-6243.	7.3	1,019
3	Fast and Efficient Preparation of Exfoliated 2H MoS₂ Nanosheets by Sonication-Assisted Lithium Intercalation and Infrared Laser-Induced 1T to 2H Phase Reversion. Nano Letters, 2015, 15, 5956-5960.	4.5	603
4	Multiple roles of graphene in heterogeneous catalysis. Chemical Society Reviews, 2015, 44, 3023-3035.	18.7	313
5	Palladium nanoparticle-graphene hybrids as active catalysts for the Suzuki reaction. Nano Research, 2010, 3, 429-437.	5.8	280
6	Sulfonated graphene as water-tolerant solid acid catalyst. Chemical Science, 2011, 2, 484-487.	3.7	247
7	Hierarchical â€œnanorollâ€•like MoS2/Ti3C2Tx hybrid with high electrocatalytic hydrogen evolution activity. Applied Catalysis B: Environmental, 2019, 241, 89-94.	10.8	214
8	Controlled Exfoliation of MoS₂ Crystals into Trilayer Nanosheets. Journal of the American Chemical Society, 2016, 138, 5143-5149.	6.6	207
9	Graphene supported Au-Pd bimetallic nanoparticles with core-shell structures and superior peroxidase-like activities. Journal of Materials Chemistry, 2011, 21, 17658.	6.7	162
10	Reduced Graphene Oxide (rGO)/BiVO₄ Composites with Maximized Interfacial Coupling for Visible Lght Photocatalysis. ACS Sustainable Chemistry and Engineering, 2014, 2, 2253-2258.	3.2	159
11	Advanced Grapheneâ€Based Binderâ€Free Electrodes for Highâ€Performance Energy Storage. Advanced Materials, 2015, 27, 5264-5279.	11.1	153
12	Poly(amidoamine) modified graphene oxide as an efficient adsorbent for heavy metal ions. Polymer Chemistry, 2013, 4, 2164.	1.9	149
13	Metalâ€“Organicâ€Frameworkâ€Based Photocatalysts Optimized by Spatially Separated Cocatalysts for Overall Water Splitting. Advanced Materials, 2020, 32, e2004747.	11.1	142
14	N-Butyllithium-Treated Ti₃C₂T_x MXene with Excellent Pseudocapacitor Performance. ACS Nano, 2019, 13, 9449-9456.	7.3	132
15	Heterostructure engineering of Co-doped MoS₂ coupled with Mo₂CT_x MXene for enhanced hydrogen evolution in alkaline media. Nanoscale, 2019, 11, 10992-11000.	2.8	127
16	Polyaniline Derived Nâ€Doped Carbonâ€Coated Cobalt Phosphide Nanoparticles Deposited on Nâ€Doped Graphene as an Efficient Electrocatalyst for Hydrogen Evolution Reaction. Small, 2018, 14, 1702895.	5.2	122
17	Boosting aqueous zinc-ion storage in MoS2 via controllable phase. Chemical Engineering Journal, 2020, 389, 124405.	6.6	122
18	Facile Synthesis of Atomic Feâ€Nâ€C Materials and Dual Roles Investigation of Feâ€N₄ Sites in Fentonâ€Like Reactions. Advanced Science, 2021, 8, e2101824.	5.6	118

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19	Catalytic Epoxidation of Olefins with Graphene Oxide Supported Copper (Salen) Complex. Industrial & Engineering Chemistry Research, 2014, 53, 4232-4238.	1.8	116
20	High Yield Exfoliation of WS₂ Crystals into 1â€“2 Layer Semiconducting Nanosheets and Efficient Photocatalytic Hydrogen Evolution from WS₂/CdS Nanorod Composites. ACS Applied Materials & Interfaces, 2018, 10, 2810-2818.	4.0	112
21	Roles of Two-Dimensional Transition Metal Dichalcogenides as Cocatalysts in Photocatalytic Hydrogen Evolution and Environmental Remediation. Industrial & Engineering Chemistry Research, 2017, 56, 4611-4626.	1.8	103
22	1T-Phase MoS₂ Nanosheets on TiO₂ Nanorod Arrays: 3D Photoanode with Extraordinary Catalytic Performance. ACS Sustainable Chemistry and Engineering, 2017, 5, 5175-5182.	3.2	98
23	Synthesis of partially hydrogenated graphene and brominated graphene. Journal of Materials Chemistry, 2012, 22, 15021.	6.7	93
24	Ultra-small Mo₂C 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. Journal of Materials Chemistry A, 2019, 7, 4734-4743.	5.2	90
25	Modulating the Electronic Structure of Singleâ€Atom Catalysts on 2D Nanomaterials for Enhanced Electrocatalytic Performance. Small Methods, 2019, 3, 1800438.	4.6	88
26	Controllable Synthesis of Ruthenium Phosphides (RuP and RuP₂) for pH-Universal Hydrogen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 6388-6394.	3.2	83
27	Preferential Growth of the Cobalt (200) Facet in Co@Nâ€“C for Enhanced Performance in a Fenton-like Reaction. ACS Catalysis, 2021, 11, 5532-5543.	5.5	82
28	Fine-Tuning Radical/Nonradical Pathways on Graphene by Porous Engineering and Doping Strategies. ACS Catalysis, 2021, 11, 4848-4861.	5.5	82
29	Rapid exfoliation of layered covalent triazine-based frameworks into N-doped quantum dots for the selective detection of Hg²⁺ions. Journal of Materials Chemistry A, 2017, 5, 9272-9278.	5.2	76
30	Rhodium complex immobilized on graphene oxide as an efficient and recyclable catalyst for hydrogenation of cyclohexene. Nanoscale, 2013, 5, 882-885.	2.8	75
31	VS2 nanosheets vertically grown on graphene as high-performance cathodes for aqueous zinc-ion batteries. Journal of Power Sources, 2020, 477, 228652.	4.0	74
32	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. Journal of Materials Chemistry A, 2017, 5, 5880-5885.	5.2	73
33	Enhanced cycling performance of Si-MXene nanohybrids as anode for high performance lithium ion batteries. Chemical Engineering Journal, 2019, 378, 122212.	6.6	71
34	Hierarchical photocatalyst of In2S3 on exfoliated MoS2 nanosheets for enhanced visible-light-driven Aza-Henry reaction. Applied Catalysis B: Environmental, 2018, 237, 288-294.	10.8	70
35	Reversible intercalation and exfoliation of layered covalent triazine frameworks for enhanced lithium ion storage. Chemical Communications, 2019, 55, 1434-1437.	2.2	70
36	A near-infrared light-mediated antimicrobial based on Ag/Ti₃C₂T_xfor effective synergetic antibacterial applications. Nanoscale, 2020, 12, 19129-19141.	2.8	69

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37	Synthesis of nitrogen and sulfur co-doped reduced graphene oxide as efficient metal-free cocatalyst for the photo-activity enhancement of CdS. Applied Catalysis B: Environmental, 2018, 236, 212-221.	10.8	68
38	Hierarchical Cobalt Borate/MXenes Hybrid with Extraordinary Electrocatalytic Performance in Oxygen Evolution Reaction. ChemSusChem, 2018, 11, 3758-3765.	3.6	66
39	Ti₂C₃T_x nanosheets as photothermal agents for near-infrared responsive hydrogels. Nanoscale, 2018, 10, 15387-15392.	2.8	66
40	Fe containing template derived atomic Feâ€“Nâ€“C to boost Fenton-like reaction and charge migration analysis on highly active Feâ€“N₄ sites. Journal of Materials Chemistry A, 2021, 9, 14793-14805.	5.2	66
41	Synergy of nitrogen doping and structural defects on hierarchically porous carbons toward catalytic oxidation via a non-radical pathway. Carbon, 2019, 155, 268-278.	5.4	65
42	2D MXene-Based Materials for Electrocatalysis. Transactions of Tianjin University, 2020, 26, 149-171.	3.3	65
43	Palladium Complex Immobilized on Graphene Oxide as an Efficient and Recyclable Catalyst for Suzuki Coupling Reaction. Catalysis Letters, 2014, 144, 1617-1623.	1.4	62
44	Chemical activation of nitrogen and sulfur co-doped graphene as defect-rich carbocatalyst for electrochemical water splitting. Carbon, 2019, 148, 540-549.	5.4	61
45	Few-Layered Trigonal WS₂ Nanosheet-Coated Graphite Foam as an Efficient Free-Standing Electrode for a Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 30591-30598.	4.0	56
46	High-performance porous graphene from synergetic nitrogen doping and physical activation for advanced nonradical oxidation. Journal of Hazardous Materials, 2020, 381, 121010.	6.5	54
47	A VS₂@N-doped carbon hybrid with strong interfacial interaction for high-performance rechargeable aqueous Zn-ion batteries. Journal of Materials Chemistry C, 0, , .	2.7	54
48	Combining palladium complex and organic amine on graphene oxide for promoted Tsujiâ€“Trost allylation. Journal of Materials Chemistry A, 2015, 3, 2609-2616.	5.2	53
49	Exfoliated MoS₂ supported Auâ€“Pd bimetallic nanoparticles with coreâ€“shell structures and superior peroxidase-like activities. RSC Advances, 2015, 5, 10352-10357.	1.7	53
50	Utilization of MoS₂ Nanosheets To Enhance the Photocatalytic Activity of ZnO for the Aerobic Oxidation of Benzyl Halides under Visible Light. Industrial & Engineering Chemistry Research, 2016, 55, 8726-8732.	1.8	53
51	N-doped carbon dots decorated 3D g-C3N4 for visible-light driven peroxydisulfate activation: Insights of non-radical route induced by Na+ doping. Applied Catalysis B: Environmental, 2022, 310, 121304.	10.8	53
52	Utilization of MoS2 and graphene to enhance the photocatalytic activity of Cu2O for oxidative C C bond formation. Applied Catalysis B: Environmental, 2017, 213, 1-8.	10.8	52
53	The Promoting Role of Different Carbon Allotropes Cocatalysts for Semiconductors in Photocatalytic Energy Generation and Pollutants Degradation. Frontiers in Chemistry, 2017, 5, 84.	1.8	52
54	Facile Synthesis of High-Performance Nitrogen-Doped Hierarchically Porous Carbon for Catalytic Oxidation. ACS Sustainable Chemistry and Engineering, 2020, 8, 4236-4243.	3.2	52

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55	In situ N-doped CoS2 anchored on MXene toward an efficient bifunctional catalyst for enhanced lithium-sulfur batteries. Chemical Engineering Journal, 2022, 427, 131792.	6.6	52
56	Photothermal enhanced enzymatic activity of lipase covalently immobilized on functionalized Ti3C2TX nanosheets. Chemical Engineering Journal, 2019, 378, 122205.	6.6	51
57	CoP nanoparticles combined with WS2 nanosheets as efficient electrocatalytic hydrogen evolution reaction catalyst. International Journal of Hydrogen Energy, 2017, 42, 3947-3954.	3.8	50
58	3D self-supported Ni(PO₃)₂â€“MoO₃nanorods anchored on nickel foam for highly efficient overall water splitting. Nanoscale, 2018, 10, 22173-22179.	2.8	50
59	Î²-cyclodextrin functionalized graphene oxide: an efficient and recyclable adsorbent for the removal of dye pollutants. Frontiers of Chemical Science and Engineering, 2015, 9, 77-83.	2.3	49
60	(0D/3D) MoS2 on porous graphene as catalysts for enhanced electrochemical hydrogen evolution. Carbon, 2017, 121, 163-169.	5.4	49
61	Enhanced hydrogenation of olefins and ketones with a ruthenium complex covalently anchored on graphene oxide. Journal of Materials Chemistry A, 2013, 1, 15039.	5.2	48
62	Metallic 1T phase MoS₂ nanosheets as a highly efficient co-catalyst for the photocatalytic hydrogen evolution of CdS nanorods. RSC Advances, 2016, 6, 74394-74399.	1.7	48
63	Poly(N-isopropylacrylamide) on two-dimensional graphene oxide surfaces. Polymer Chemistry, 2012, 3, 621.	1.9	47
64	Phosphotungstic Acid Immobilized on Amine-Grafted Graphene Oxide as Acid/Base Bifunctional Catalyst for One-Pot Tandem Reaction. Industrial & Engineering Chemistry Research, 2014, 53, 1437-1441.	1.8	46
65	Chemically-confined mesoporous Î³-Fe2O3 nanospheres with Ti3C2Tx MXene via alkali treatment for enhanced lithium storage. Journal of Power Sources, 2021, 495, 229758.	4.0	46
66	Rational Design of Fe/N/Sâ€Doped Nanoporous Carbon Catalysts from Covalent Triazine Frameworks for Efficient Oxygen Reduction. ChemSusChem, 2018, 11, 2402-2409.	3.6	45
67	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. Carbon, 2019, 155, 287-297.	5.4	45
68	Lipase Immobilized on Graphene Oxide As Reusable Biocatalyst. Industrial & Engineering Chemistry Research, 2014, 53, 19878-19883.	1.8	44
69	NbSe₂ Nanosheet Supported PbBiO₂Br as a High Performance Photocatalyst for the Visible Light-driven Asymmetric Alkylation of Aldehyde. ACS Sustainable Chemistry and Engineering, 2015, 3, 1017-1022.	3.2	44
70	Multiple roles of a heterointerface in two-dimensional van der Waals heterostructures: insights into energy-related applications. Journal of Materials Chemistry A, 2019, 7, 23577-23603.	5.2	43
71	Eosin Y Covalently Anchored on Reduced Graphene Oxide as an Efficient and Recyclable Photocatalyst for the Aerobic Oxidation of Î±-Aryl Halogen Derivatives. ACS Sustainable Chemistry and Engineering, 2015, 3, 468-474.	3.2	41
72	Surface Phase Engineering Modulated Ironâ€Nickel Nitrides/Alloy Nanospheres with Tailored dâ€Band Center for Efficient Oxygen Evolution Reaction. Small, 2022, 18, e2105696.	5.2	41

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73	Chemoselective hydrodeoxygenation of palmitic acid to diesel-like hydrocarbons over Ni/MoO2@Mo2CTx catalyst with extraordinary synergic effect. Chemical Engineering Journal, 2020, 391, 123472.	6.6	38
74	Exfoliated MoS2 with porous graphene nanosheets for enhanced electrochemical hydrogen evolution. International Journal of Hydrogen Energy, 2018, 43, 13946-13952.	3.8	37
75	Photo-accelerated Co³⁺/Co²⁺ transformation on cobalt and phosphorus co-doped g-C₃N₄ for Fenton-like reaction. Journal of Materials Chemistry A, 2021, 9, 22399-22409.	5.2	37
76	Microwave-assisted 1T to 2H phase reversion of MoS₂in solution: a fast route to processable dispersions of 2H-MoS₂nanosheets and nanocomposites. Nanotechnology, 2016, 27, 385604.	1.3	36
77	Fabrication of flower-like MoS₂/TiO₂ hybrid as an anode material for lithium ion batteries. RSC Advances, 2017, 7, 38119-38124.	1.7	36
78	Nitrogen-doped graphene quantum dots decorated graphite foam as ultra-high active free-standing electrode for electrochemical hydrogen evolution and phenol degradation. Chemical Engineering Science, 2019, 194, 54-57.	1.9	36
79	Easily Regenerated CuO/Î³-Al₂O₃ for Persulfate-Based Catalytic Oxidation: Insights into the Deactivation and Regeneration Mechanism. ACS Applied Materials & Interfaces, 2021, 13, 2630-2641.	4.0	36
80	Bifunctional Graphene-Based Metal-Free Catalysts for Oxidative Coupling of Amines. ACS Applied Materials & Interfaces, 2019, 11, 31844-31850.	4.0	35
81	Preparation of Hollow Cobaltâ€“Iron Phosphides Nanospheres by Controllable Atom Migration for Enhanced Water Oxidation and Splitting. Small, 2021, 17, e2007858.	5.2	35
82	Constructing hollow nanotube-like amorphous vanadium oxide and carbon hybrid via in-situ electrochemical induction for high-performance aqueous zinc-ion batteries. Journal of Colloid and Interface Science, 2022, 623, 277-284.	5.0	34
83	Cooperative catalysis by acidâ€“base bifunctional graphene. RSC Advances, 2013, 3, 13655.	1.7	33
84	Green Route for Microwave-Assisted Preparation of AuAg-Alloy-Decorated Graphene Hybrids with Superior 4-NP Reduction Catalytic Activity. Industrial & Engineering Chemistry Research, 2014, 53, 17976-17980.	1.8	33
85	Cu₂O mesoporous spheres with a high internal diffusion capacity and improved catalytic ability for the aza-Henry reaction driven by visible light. Chemical Communications, 2014, 50, 14237-14240.	2.2	33
86	Band-gap engineering of layered covalent organic frameworks via controllable exfoliation for enhanced visible-light-driven hydrogen evolution. International Journal of Hydrogen Energy, 2020, 45, 2689-2698.	3.8	32
87	Vertically aligned 1ÂT phase MoS2 nanosheet array for high-performance rechargeable aqueous Zn-ion batteries. Chemical Engineering Journal, 2022, 428, 130981.	6.6	32
88	Constructing titanium carbide MXene/reduced graphene oxide superlattice heterostructure via electrostatic self-assembly for high-performance capacitive deionization. Journal of Colloid and Interface Science, 2022, 624, 233-241.	5.0	32
89	Single-atomic iron-nitrogen 2D MOF-originated hierarchically porous carbon catalysts for enhanced oxygen reduction reaction. Chemical Engineering Journal, 2022, 441, 135849.	6.6	31
90	Improving the performance of a titanium carbide MXene in supercapacitors by partial oxidation treatment. Inorganic Chemistry Frontiers, 2020, 7, 1205-1211.	3.0	30

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91	Plasma-assisted synthesis of three-dimensional hierarchical NiFeOx/NiFeP electrocatalyst for highly enhanced water oxidation in alkaline media. International Journal of Hydrogen Energy, 2019, 44, 26118-26127.	3.8	29
92	Increasing the heteroatoms doping percentages of graphene by porous engineering for enhanced electrocatalytic activities. Journal of Colloid and Interface Science, 2020, 577, 101-108.	5.0	27
93	A general strategy to prepare graphene-metal/metal oxide nanohybrids. Journal of Materials Chemistry, 2011, 21, 14498.	6.7	26
94	Robust and smart gold nanoparticles: one-step synthesis, tunable optical property, and switchable catalytic activity. Journal of Materials Chemistry, 2011, 21, 6173.	6.7	26
95	Synthesis of nitrogen and sulfur doped graphene on graphite foam for electro-catalytic phenol degradation and water splitting. Journal of Colloid and Interface Science, 2021, 583, 139-148.	5.0	26
96	Preparation of ultrathin molybdenum disulfide dispersed on graphene via cobalt doping: A bifunctional catalyst for hydrogen and oxygen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 9583-9591.	3.8	25
97	MXene derivatives: synthesis and applications in energy convention and storage. RSC Advances, 2021, 11, 16065-16082.	1.7	25
98	Iodine-Functionalized Titanium Carbide MXene with Ultra-Stable Pseudocapacitor Performance. Journal of Colloid and Interface Science, 2022, 615, 643-649.	5.0	25
99	Near-Infrared Responsive MoS₂/Poly(N-isopropylacrylamide) Hydrogels for Remote Light-Controlled Microvalves. Industrial & Engineering Chemistry Research, 2016, 55, 4526-4531.	1.8	24
100	Fabrication of a Cu₂O/gâ€C₃N₄/WS₂ Tripleâ€Layer Photocathode for Photoelectrochemical Hydrogen Evolution. ChemElectroChem, 2017, 4, 1498-1502.	1.7	24
101	CoP Nanoparticles Combined with WSe₂ Nanosheets: An Efficient Hybrid Catalyst for Electrocatalytic Hydrogen Evolution Reaction. Industrial & Engineering Chemistry Research, 2018, 57, 483-489.	1.8	24
102	Synthesis of porous nitrogen doped carbon cage from carbide for catalytic oxidation. Carbon, 2020, 163, 43-55.	5.4	24
103	Synergistic activation of peroxymonosulfate between Co and MnO for bisphenol A degradation with enhanced activity and stability. Journal of Colloid and Interface Science, 2022, 623, 775-786.	5.0	24
104	Synthesis of Palladium, ZnFe₂O₄ Functionalized Reduced Graphene Oxide Nanocomposites as H₂O₂ Detector. Industrial & Engineering Chemistry Research, 2017, 56, 4327-4333.	1.8	23
105	N-doped hierarchical porous metal-free catalysts derived from covalent triazine frameworks for the efficient oxygen reduction reaction. Catalysis Science and Technology, 2019, 9, 6606-6612.	2.1	23
106	Thermal removal of partial nitrogen atoms in N-doped graphene for enhanced catalytic oxidation. Journal of Colloid and Interface Science, 2021, 585, 640-648.	5.0	23
107	Two-dimensional hierarchical Mn₂O₃@graphene as a high rate and ultrastable cathode for aqueous zinc-ion batteries. Journal of Materials Chemistry C, 2021, 9, 1326-1332.	2.7	23
108	Partially Etched Ti₃AlC₂ as a Promising Highâ€Capacity Lithiumâ€Ion Battery Anode. ChemSusChem, 2018, 11, 2677-2680.	3.6	22

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109	Synergistic Effect of N-Doped sp² Carbon and Porous Structure in Graphene Gels toward Selective Oxidation of Câ€“H Bond. ACS Applied Materials & Interfaces, 2021, 13, 13087-13096.	4.0	22
110	Decorated nickel phosphide nanoparticles with nitrogen and phosphorus co-doped porous carbon for enhanced electrochemical water splitting. Journal of Colloid and Interface Science, 2020, 567, 393-401.	5.0	21
111	Understanding of the electrochemical behaviors of aqueous zincâ€“manganese batteries: Reaction processes and failure mechanisms. Green Energy and Environment, 2022, 7, 858-899.	4.7	20
112	Thermo-sensitive graphene supported gold nanocatalyst: synthesis, characterization and catalytic performance. RSC Advances, 2013, 3, 8973.	1.7	19
113	Multilevel N-doped carbon nanotube/graphene supported cobalt phosphide nanoparticles for electrocatalytic hydrogen evolution reaction. International Journal of Hydrogen Energy, 2019, 44, 30053-30061.	3.8	19
114	Transition Metal/Metal Oxide Interface (Niâ€“Moâ€“O/Ni₄Mo) Stabilized on N-Doped Carbon Paper for Enhanced Hydrogen Evolution Reaction in Alkaline Conditions. Industrial & Engineering Chemistry Research, 2021, 60, 5145-5150.	1.8	19
115	Insights into the Role of Protonation in Covalent Triazine Framework-Based Photocatalytic Hydrogen Evolution. Chemistry of Materials, 2022, 34, 1481-1490.	3.2	18
116	General acid and base bifunctional graphene oxide for cooperative catalysis. Journal of Materials Chemistry A, 2014, 2, 10239-10243.	5.2	17
117	Preparation of Cuprous Oxide Mesoporous Spheres with Different Pore Sizes for Non-Enzymatic Glucose Detection. Nanomaterials, 2018, 8, 73.	1.9	17
118	Bamboo-like nitrogen-doped carbon nanotubes on iron mesh for electrochemically-assisted catalytic oxidation. Journal of Hazardous Materials, 2021, 408, 124899.	6.5	16
119	Atomically dispersed metal sites in COF-based nanomaterials for electrochemical energy conversion. Green Energy and Environment, 2023, 8, 360-382.	4.7	15
120	Synthesis of Co-NC catalysts from spent lithium-ion batteries for fenton-like reaction: Generation of singlet oxygen with â¼100% selectivity. Carbon, 2022, 197, 76-86.	5.4	15
121	Dual-Functionalized Covalent Triazine Framework Nanosheets as Hierarchical Nonviral Vectors for Intracellular Gene Delivery. ACS Applied Nano Materials, 2021, 4, 4948-4955.	2.4	14
122	High-yield exfoliation of MoS2 (WS2) monolayers towards efficient photocatalytic hydrogen evolution. Chemical Engineering Journal, 2022, 431, 133286.	6.6	14
123	Remove the â€“F Terminal Groups on Ti3C2Tx by Reaction with Sodium Metal to Enhance Pseudocapacitance. Energy Storage Materials, 2022, 50, 802-809.	9.5	14
124	Fluorine-induced porous carbon nanosheets with abundant edge-defects for high-performance capacitive deionization. Desalination, 2022, 538, 115919.	4.0	14
125	Gold nanoparticles supported on layered TiO₂â€“RGO hybrid as an enhanced and recyclable catalyst for microwave-assisted hydration reaction. RSC Advances, 2016, 6, 76151-76157.	1.7	13
126	Covalent Triazine Framework Anchored with Co₃O₄ Nanoparticles for Efficient Oxygen Reduction. ChemElectroChem, 2018, 5, 717-721.	1.7	13

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127	TiO2 nanorod arrays decorated with exfoliated WS2 nanosheets for enhanced photoelectrochemical water oxidation. Journal of Colloid and Interface Science, 2019, 545, 282-288.	5.0	13
128	Quasi zero-dimensional MoS2 quantum dots decorated 2D Ti3C2Tx MXene as advanced electrocatalysts for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2022, 47, 10583-10593.	3.8	13
129	Intercalated Graphite between Ni Foam and Ni₃S₂ Nanocrystals for the Activity Promotion in Overall Water Splitting. Energy Technology, 2019, 7, 1900063.	1.8	12
130	Hierarchical Amorphous Carbon-Coated Co/Co₉S₈ Nanoparticles on MoS₂ toward Synergetic Electrocatalytic Water Splitting. Industrial & Engineering Chemistry Research, 2019, 58, 23093-23098.	1.8	12
131	Magnetic Carbon Nanotubes for Protein Separation. Journal of Nanomaterials, 2012, 2012, 1-6.	1.5	11
132	Magnetic Au-Ag-Î³-Fe2O3/rGO Nanocomposites as an Efficient Catalyst for the Reduction of 4-Nitrophenol. Nanomaterials, 2018, 8, 877.	1.9	11
133	Ni modified ultrafine MoxC (xÂ=Â1, 2) wrapped by nitrogen-doped carbon for efficient hydrogen evolution reaction in acid and alkaline electrolytes. International Journal of Hydrogen Energy, 2020, 45, 28285-28293.	3.8	11
134	Interface Engineering to Improve the Rate Performance and Stability of the Mn-Cathode Electrode for Aqueous Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 24386-24395.	4.0	11
135	Porous structure engineering of N-doped carbons for enhanced mass transfer towards High-Performance supercapacitors and Li-Ion batteries. Journal of Colloid and Interface Science, 2022, 624, 51-59.	5.0	11
136	Quadrupleâ€Responsive Nanocomposite Based on Dextranâ€“PMAAâ€“PNIPAM, Iron Oxide Nanoparticles, and Gold Nanorods. Macromolecular Rapid Communications, 2012, 33, 133-139.	2.0	10
137	Ultra-small RuPx nanoparticles on graphene supported schiff-based networks for all pH hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 5717-5724.	3.8	10
138	Grain-boundary-rich layered double hydroxides via a boron-assisted strategy for the oxygen evolution reaction. Chemical Communications, 2022, 58, 5646-5649.	2.2	10
139	Functionalization of carbon and gold nanomaterials using PNIPAAm grafted dextran: a general route towards robust and smart nanomaterials. Journal of Materials Chemistry, 2012, 22, 11290.	6.7	9
140	Decoration of Cu₂O photocathode with protective TiO₂ and active WS₂ layers for enhanced photoelectrochemical hydrogen evolution. Nanotechnology, 2018, 29, 505603.	1.3	9
141	Cobalt phosphide nanoparticles anchored on molybdenum selenide nanosheets as high-performance electrocatalysts for water reduction. International Journal of Hydrogen Energy, 2018, 43, 20346-20353.	3.8	9
142	Reconstruction of bimetal CoFe_{0.13}-MOF to enhance the catalytic performance in the oxygen evolution reaction. Chemical Communications, 2022, 58, 1115-1118.	2.2	9
143	Boosting the Zn-ion energy storage capability of graphene sandwiched nanoporous VO_x derived from MXene. Nanoscale, 2022, 14, 8640-8648.	2.8	9
144	Sulfur-Rich Molybdenum Sulfide Grown on Porous N-Doped Graphene for Efficient Hydrogen Evolution. Industrial & Engineering Chemistry Research, 2020, 59, 12862-12869.	1.8	8

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145	Synthesis of nitrogen and sulfur Co-doped carbon with special hollow sphere structure for enhanced catalytic oxidation. Separation and Purification Technology, 2021, 278, 119522.	3.9	8
146	Topochemical synthesis of low-dimensional nanomaterials. Nanoscale, 2020, 12, 21971-21987.	2.8	7
147	Bimetallic ZIF-Derived Co/N-Codoped Porous Carbon Supported Ruthenium Catalysts for Highly Efficient Hydrogen Evolution Reaction. Nanomaterials, 2021, 11, 1228.	1.9	7
148	Facile synthesis of iron oxide supported on porous nitrogen doped carbon for catalytic oxidation. Science of the Total Environment, 2021, 785, 147296.	3.9	7
149	Nitrogenâ^'carbon materials base on pyrolytic graphene hydrogel for oxygen reduction. Journal of Colloid and Interface Science, 2021, 602, 274-281.	5.0	7
150	Surfactant-Free Synthesis of Ultrafine Pt Nanoparticles on MoS₂ Nanosheets as Bifunctional Catalysts for the Hydrodeoxygenation of Bio-Oil. Langmuir, 2020, 36, 14710-14716.	1.6	7
151	Coupling LaNiO3 Nanorods with FeOOH Nanosheets for Oxygen Evolution Reaction. Catalysts, 2022, 12, 594.	1.6	7
152	Capillarity-induced disassembly of virions in carbon nanotubes. Nanotechnology, 2008, 19, 165702.	1.3	6
153	Silicene/poly(N-isopropylacrylamide) smart hydrogels as remote light-controlled switches. Journal of Colloid and Interface Science, 2022, 621, 205-212.	5.0	6
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