Junjie Mao

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Large-scale production of holey carbon nanosheets implanted with atomically dispersed Fe sites for boosting oxygen reduction electrocatalysis. Nano Research, 2022, 15, 1926-1933.	10.4	17
2	Highly dispersed Cr oxygenated species on Pt nanowire assemblies for enhanced electrocatalytic methanol oxidation. Chemical Communications, 2022, 58, 799-802.	4.1	3
3	Highly selective generation of singlet oxygen from dioxygen with atomically dispersed catalysts. Chemical Science, 2022, 13, 5606-5615.	7.4	9
4	Single copper sites dispersed on hierarchically porous carbon for improving oxygen reduction reaction towards zinc-air battery. Nano Research, 2021, 14, 998-1003.	10.4	50
5	Synthesis and properties of Sr²⁺ doping Î±-tricalcium phosphate at low temperature. Journal of Applied Biomaterials and Functional Materials, 2021, 19, 228080002199699.	1.6	6
6	Ligand-mediated strategy for the fabrication of hollow Fe-MOFs and their derived Fe/NC nanostructures with an enhanced oxygen reduction reaction. CrystEngComm, 2021, 23, 528-532.	2.6	3
7	Transforming cobalt hydroxide nanowires into single atom site catalysts. Nano Energy, 2021, 83, 105799.	16.0	19
8	<i>In Situ</i> Electrochemical Activation of Fe/Co-Based 8-Hydroxyquinoline Nanostructures on Copper Foam for Oxygen Evolution. ACS Applied Nano Materials, 2021, 4, 9409-9417.	5.0	13
9	Single-atom Feâ€"N4 site for the hydrogenation of nitrobenzene: theoretical and experimental studies. Dalton Transactions, 2021, 50, 7995-8001.	3.3	2
10	N-Bridged Coâ€"Nâ€"Ni: new bimetallic sites for promoting electrochemical CO₂ reduction. Energy and Environmental Science, 2021, 14, 3019-3028.	30.8	128
11	Design of Binary Cuâ€"Fe Sites Coordinated with Nitrogen Dispersed in the Porous Carbon for Synergistic CO₂ Electroreduction. Small, 2021, 17, e2006951.	10.0	63
12	Synergistic Modulation of the Separation of Photoâ€Generated Carriers via Engineering of Dual Atomic Sites for Promoting Photocatalytic Performance. Advanced Materials, 2021, 33, e2105904.	21.0	117
13	A single-atom Cuâ€"N₂catalyst eliminates oxygen interference for electrochemical sensing of hydrogen peroxide in a living animal brain. Chemical Science, 2021, 12, 15045-15053.	7.4	36
14	Single-Atom Ru on Al₂O₃ for Highly Active and Selective 1,2-Dichloroethane Catalytic Degradation. ACS Applied Materials & Interfaces, 2021, 13, 53683-53690.	8.0	16
15	Atomically Dispersed Cu Anchored on Nitrogen and Boron Codoped Carbon Nanosheets for Enhancing Catalytic Performance. ACS Applied Materials & Interfaces, 2021, 13, 61047-61054.	8.0	18
16	Photoinduction of Cu Single Atoms Decorated on UiO-66-NH₂ for Enhanced Photocatalytic Reduction of CO₂ to Liquid Fuels. Journal of the American Chemical Society, 2020, 142, 19339-19345.	13.7	373
17	Single-Atom Coâ€"N₄ Electrocatalyst Enabling Four-Electron Oxygen Reduction with Enhanced Hydrogen Peroxide Tolerance for Selective Sensing. Journal of the American Chemical Society, 2020, 142, 16861-16867.	13.7	184
18	Single-atom Ni-N4 provides a robust cellular NO sensor. Nature Communications, 2020, 11, 3188.	12.8	153

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19	Scalable surface engineering of commercial metal foams for defect-rich hydroxides towards improved oxygen evolution. Journal of Materials Chemistry A, 2020, 8, 12603-12612.	10.3	23
20	Single atom alloy: An emerging atomic site material for catalytic applications. Nano Today, 2020, 34, 100917.	11.9	91
21	Isolated Ni Atoms Dispersed on Ru Nanosheets: High-Performance Electrocatalysts toward Hydrogen Oxidation Reaction. Nano Letters, 2020, 20, 3442-3448.	9.1	172
22	Single-atom electrocatalysis: a new approach to in vivo electrochemical biosensing. Science China Chemistry, 2019, 62, 1720-1724.	8.2	57
23	A single-atom Feâ€“N₄ catalytic site mimicking bifunctional antioxidative enzymes for oxidative stress cytoprotection. Chemical Communications, 2019, 55, 159-162.	4.1	209
24	PtAu bimetallic nanocatalyst for selective hydrogenation of alkenes over aryl halides. Nano Research, 2019, 12, 1659-1662.	10.4	6
25	Structure regulation of noble-metal-based nanomaterials at an atomic level. Nano Today, 2019, 26, 164-175.	11.9	33
26	Microwave absorption performance of PDCs-SiCN(Fe) ceramics with negative imaginary permeability. Ceramics International, 2018, 44, 10420-10425.	4.8	35
27	Electromagnetic wave absorption properties of nickel-containing polymer-derived SiCN ceramics. Ceramics International, 2018, 44, 10945-10950.	4.8	35
28	Ultrathin Ptâ€“Zn Nanowires: High-Performance Catalysts for Electrooxidation of Methanol and Formic Acid. ACS Sustainable Chemistry and Engineering, 2018, 6, 77-81.	6.7	52
29	Accelerating water dissociation kinetics by isolating cobalt atoms into ruthenium lattice. Nature Communications, 2018, 9, 4958.	12.8	264
30	The influence of carbon materials on the absorption performance of polymer-derived SiCN ceramics in X-band. Ceramics International, 2018, 44, 15686-15689.	4.8	25
31	Single Tungsten Atoms Supported on MOFâ€Derived Nâ€Doped Carbon for Robust Electrochemical Hydrogen Evolution. Advanced Materials, 2018, 30, e1800396.	21.0	427
32	Metal/oxide interfacial effects on the selective oxidation of primary alcohols. Nature Communications, 2017, 8, 14039.	12.8	144
33	Design of ultrathin Pt-Mo-Ni nanowire catalysts for ethanol electrooxidation. Science Advances, 2017, 3, e1603068.	10.3	224
34	Rational Control of the Selectivity of a Ruthenium Catalyst for Hydrogenation of 4â€Nitrostyrene by Strain Regulation. Angewandte Chemie, 2017, 129, 12133-12137.	2.0	12
35	Rational Control of the Selectivity of a Ruthenium Catalyst for Hydrogenation of 4â€Nitrostyrene by Strain Regulation. Angewandte Chemie - International Edition, 2017, 56, 11971-11975.	13.8	93
36	Bimetallic PdCo catalyst for selective direct formylation of amines by carbon monoxide. Nano Research, 2017, 10, 890-896.	10.4	17

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37	Kinetically Controlling Surface Structure to Construct Defectâ€Rich Intermetallic Nanocrystals: Effective and Stable Catalysts. Advanced Materials, 2016, 28, 2540-2546.	21.0	95
38	Ptâ€"M (M = Cu, Fe, Zn, etc.) bimetallic nanomaterials with abundant surface defects and robust catalytic properties. Chemical Communications, 2016, 52, 5985-5988.	4.1	60
39	Controllable synthesis of Ptâ€"Cu nanocrystals and their tunable catalytic properties. CrystEngComm, 2016, 18, 3764-3767.	2.6	6
40	A facile strategy for the synthesis of branched Ptâ€"Pdâ€"M (M = Co, Ni) trimetallic nanocrystals. CrystEngComm, 2016, 18, 4023-4026.	2.6	7
41	Irâ€"Cu nanoframes: one-pot synthesis and efficient electrocatalysts for oxygen evolution reaction. Chemical Communications, 2016, 52, 3793-3796.	4.1	73
42	Seed-mediated synthesis of hexameric octahedral PtPdCu nanocrystals with high electrocatalytic performance. Chemical Communications, 2015, 51, 15406-15409.	4.1	23
43	A used battery supported Ag catalyst for efficient oxidation of alcohols and carbon oxide. RSC Advances, 2014, 4, 25384-25388.	3.6	12
44	Bimetallic Pdâ€"Cu nanocrystals and their tunable catalytic properties. Chemical Communications, 2014, 50, 4588.	4.1	68
45	Surfactant-free platinum nanocubes with greatly enhanced activity towards methanol/ethanol electrooxidation. RSC Advances, 2014, 4, 28832.	3.6	14
46	Ultrathin rhodium nanosheets. Nature Communications, 2014, 5, 3093.	12.8	428
47	Preparation of bimetallic nanocrystals by coreduction of mixed metal ions in a liquidâ€"solidâ€"solution synthetic system according to the electronegativity of alloys. CrystEngComm, 2013, 15, 4806.	2.6	8
48	Electrocatalytic four-electron reduction of oxygen with Copper (II)-based metal-organic frameworks. Electrochemistry Communications, 2012, 19, 29-31.	4.7	256
49	Constructing the separation pathway for photo-generated carriers by diatomic sites decorated on MIL-53-NH2(Al) for enhanced photocatalytic performance. Nano Research, 0, , .	10.4	8