

Xiao Zhou

List of Publications by Year in descending order

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26
papers

1,261
citations

331670

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docs citations

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times ranked

2128
citing authors

#	ARTICLE	IF	CITATIONS
1	Compressive Strain Modulation of Single Iron Sites on Helical Carbon Support Boosts Electrocatalytic Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22722-22728.	13.8	113
2	Integrating single-cobalt-site and electric field of boron nitride in dechlorination electrocatalysts by bioinspired design. <i>Nature Communications</i> , 2021, 12, 303.	12.8	97
3	Bare Cd _{1-x} Zn _x S ZB/WZ Heterophase Nanojunctions for Visible Light Photocatalytic Hydrogen Production with High Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24550-24558.	8.0	93
4	Ultrasmall Ni nanoparticles embedded in Zr-based MOFs provide high selectivity for CO ₂ hydrogenation to methane at low temperatures. <i>Catalysis Science and Technology</i> , 2018, 8, 3160-3165.	4.1	87
5	Carbon-Coated Fe ₃ O ₄ /VO ₂ Hollow Microboxes Derived from Metal-Organic Frameworks as a High-Performance Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3757-3765.	8.0	82
6	A Novel Magnetically Recoverable Ni-CeO ₂ /Pd Nanocatalyst with Superior Catalytic Performance for Hydrogenation of Styrene and 4-Nitrophenol. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9756-9762.	8.0	75
7	Room-Temperature Synthesis of Single Iron Site by Electrofiltration for Photoreduction of CO ₂ into Tunable Syngas. <i>ACS Nano</i> , 2020, 14, 6164-6172.	14.6	71
8	Artificial Photosynthetic Z-scheme Photocatalyst for Hydrogen Evolution with High Quantum Efficiency. <i>Journal of Physical Chemistry C</i> , 2017, 121, 107-114.	3.1	67
9	Metallic 1T-LiMoS ₂ Cocatalyst Significantly Enhanced the Photocatalytic H ₂ Evolution over Cd _{0.5} Zn _{0.5} S Nanocrystals under Visible Light Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4023-4030.	8.0	59
10	Molecule-Assisted Synthesis of Highly Dispersed Ultrasmall RuO ₂ Nanoparticles on Nitrogen-Doped Carbon Matrix as Ultraefficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11529-11535.	6.7	58
11	Large improvement of visible-light photocatalytic H ₂ -evolution based on cocatalyst-free Zn _{0.5} Cd _{0.5} S synthesized through a two-step process. <i>Catalysis Science and Technology</i> , 2017, 7, 961-967.	4.1	57
12	Pd/TiO Nanocatalyst with Strong Metal-Support Interaction for Highly Efficient Durable Heterogeneous Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1162-1170.	3.1	54
13	Synthesis of nanoporous structured iron carbide/Fe-N-carbon composites for efficient oxygen reduction reaction in Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 19037-19044.	10.3	53
14	Electrochemical conversion of bulk platinum into platinum single-atom sites for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10755-10760.	10.3	40
15	Oxygen-Deficient TiO ₂ /Methylene Blue Colloids: Highly Efficient Photoreversible Intelligent Ink. <i>Langmuir</i> , 2016, 32, 8980-8987.	3.5	38
16	Synergistic effect of graphene and multi-walled carbon nanotubes composite supported Pd nanocubes on enhancing catalytic activity for electro-oxidation of formic acid. <i>Catalysis Science and Technology</i> , 2016, 6, 4794-4801.	4.1	38
17	Oxygen deficient Pr ₆ O ₁₁ nanorod supported palladium nanoparticles: highly active nanocatalysts for styrene and 4-nitrophenol hydrogenation reactions. <i>RSC Advances</i> , 2018, 8, 17504-17510.	3.6	36
18	Atomic Filtration by Graphene Oxide Membranes to Access Atomically Dispersed Single Atom Catalysts. <i>ACS Catalysis</i> , 2020, 10, 10468-10475.	11.2	36

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19	Hydrogenation/oxidation induced efficient reversible color switching between methylene blue and leuco-methylene blue. RSC Advances, 2017, 7, 30080-30085.	3.6	32
20	Hydrogen-bonding-assisted charge transfer: significantly enhanced photocatalytic H ₂ evolution over g-C ₃ N ₄ anchored with ferrocene-based hole relay. Catalysis Science and Technology, 2018, 8, 2853-2859.	4.1	28
21	Supramolecular polymers-derived nonmetal N, S-codoped carbon nanosheets for efficient oxygen reduction reaction. RSC Advances, 2016, 6, 52937-52944.	3.6	25
22	Hydrogenation/oxidation triggered highly efficient reversible color switching of organic molecules. Catalysis Science and Technology, 2017, 7, 1379-1385.	4.1	9
23	Compressive Strain Modulation of Single Iron Sites on Helical Carbon Support Boosts Electrocatalytic Oxygen Reduction. Angewandte Chemie, 2021, 133, 22904-22910.	2.0	4
24	Catalytic Conversion of Biomass into Hydrocarbons over Noble-Metal-Free VO ₅ -Substituted Potassium Salt of Phosphotungstic Acid. ChemistrySelect, 2017, 2, 8625-8631.	1.5	3
25	Pd Nanoparticles Capped with [CpPd(II)Cl] ₂ Complexes for Hydrogenation and Acid-Free Acetalization of 1,2-Unsaturated Aldehydes. ACS Applied Nano Materials, 2019, 2, 5634-5642.	5.0	3
26	Osmotic pressure-induced pocket-like spheres with Fe single-atom sites for the oxygen reduction reaction. Journal of Materials Chemistry A, 2021, 9, 13908-13915.	10.3	3