

Hua Bing Tao

List of Publications by Year in descending order

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28
papers

3,874
citations

377584

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591227

27
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28
all docs

28
docs citations

28
times ranked

6858
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorphous alloys for electrocatalysis: The significant role of the amorphous alloy structure. <i>Nano Research</i> , 2023, 16, 4277-4288.	5.8	32
2	Towards the Rational Design of Stable Electrocatalysts for Green Hydrogen Production. <i>Catalysts</i> , 2022, 12, 204.	1.6	1
3	Kinetic Insights of Proton Exchange Membrane Water Electrolyzer Obtained by <i>Operando</i> Characterization Methods. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6520-6531.	2.1	12
4	Noble metal nanowire arrays as an ethanol oxidation electrocatalyst. <i>Nanoscale Advances</i> , 2021, 3, 177-181.	2.2	6
5	Ordered clustering of single atomic Te vacancies in atomically thin PtTe ₂ promotes hydrogen evolution catalysis. <i>Nature Communications</i> , 2021, 12, 2351.	5.8	83
6	Progress of Nonprecious Metal-Based Electrocatalysts for Oxygen Evolution in Acidic Media. <i>Advanced Materials</i> , 2021, 33, e2003786.	11.1	166
7	<i>In Situ</i> Precise Tuning of Bimetallic Electronic Effect for Boosting Oxygen Reduction Catalysis. <i>Nano Letters</i> , 2021, 21, 7753-7760.	4.5	24
8	Amorphous Multimetal Alloy Oxygen Evolving Catalysts. , 2020, 2, 624-632.		45
9	Amorphous versus Crystalline in Water Oxidation Catalysis: A Case Study of NiFe Alloy. <i>Nano Letters</i> , 2020, 20, 4278-4285.	4.5	201
10	Single-Ni-atom catalyzes aqueous phase electrochemical reductive dechlorination reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119057.	10.8	51
11	Advances in Thermodynamic-Kinetic Model for Analyzing the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2020, 10, 8597-8610.	5.5	89
12	Tuning reactivity of Fischer-Tropsch synthesis by regulating TiO _x overlayer over Ru/TiO ₂ nanocatalysts. <i>Nature Communications</i> , 2020, 11, 3185.	5.8	114
13	Electrostatic self-assembly of a AgI/Bi ₂ Ga ₄ O ₉ p-n junction photocatalyst for boosting superoxide radical generation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4083-4090.	5.2	73
14	Revealing Energetics of Surface Oxygen Redox from Kinetic Fingerprint in Oxygen Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 13803-13811.	6.6	151
15	Layered Structure Causes Bulk NiFe Layered Double Hydroxide Unstable in Alkaline Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019, 31, e1903909.	11.1	345
16	An essential descriptor for the oxygen evolution reaction on reducible metal oxide surfaces. <i>Chemical Science</i> , 2019, 10, 3340-3345.	3.7	63
17	Nanostructuring Confinement for Controllable Interfacial Charge Transfer. <i>Small</i> , 2019, 15, e1804391.	5.2	13
18	A General Method to Probe Oxygen Evolution Intermediates at Operating Conditions. <i>Joule</i> , 2019, 3, 1498-1509.	11.7	243

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19	An Earth-Abundant Catalyst-Based Seawater Photoelectrolysis System with 17.9% Solar-to-Hydrogen Efficiency. <i>Advanced Materials</i> , 2018, 30, e1707261.	11.1	189
20	Unraveling the Intrinsic Structures that Influence the Transport of Charges in TiO ₂ Electrodes. <i>Advanced Energy Materials</i> , 2017, 7, 1700886.	10.2	28
21	Surface Rutilization of Anatase TiO ₂ Nanorods for Creation of Synergistically Bridging and Fencing Electron Highways. <i>Advanced Functional Materials</i> , 2016, 26, 456-465.	7.8	52
22	Identification of Surface Reactivity Descriptor for Transition Metal Oxides in Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2016, 138, 9978-9985.	6.6	345
23	Identification of catalytic sites for oxygen reduction and oxygen evolution in N-doped graphene materials: Development of highly efficient metal-free bifunctional electrocatalyst. <i>Science Advances</i> , 2016, 2, e1501122.	4.7	1,078
24	Achieving stable and efficient water oxidation by incorporating NiFe layered double hydroxide nanoparticles into aligned carbon nanotubes. <i>Nanoscale Horizons</i> , 2016, 1, 156-160.	4.1	99
25	Tunneling Interlayer for Efficient Transport of Charges in Metal Oxide Electrodes. <i>Journal of the American Chemical Society</i> , 2016, 138, 3183-3189.	6.6	42
26	One-Dimensional Hybrid Nanostructures for Heterogeneous Photocatalysis and Photoelectrocatalysis. <i>Small</i> , 2015, 11, 2115-2131.	5.2	213
27	Biomolecule-assisted synthesis of carbon nitride and sulfur-doped carbon nitride heterojunction nanosheets: An efficient heterojunction photocatalyst for photoelectrochemical applications. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 770-777.	1.5	15
28	Spatially branched hierarchical ZnO nanorod-TiO ₂ nanotube array heterostructures for versatile photocatalytic and photoelectrocatalytic applications: towards intimate integration of 1D-1D hybrid nanostructures. <i>Nanoscale</i> , 2014, 6, 14950-14961.	2.8	101