Yipu Liu

List of Publications by Year
in descending order

45 papers	7,249 citations	126907 33 h-index	206112 48 g-index
48 all docs	48 docs citations	48 times ranked	7505 citing authors

#	Article	IF	Citations
1	Coupling Mo₂C with Nitrogenâ€Rich Nanocarbon Leads to Efficient Hydrogenâ€Evolution Electrocatalytic Sites. Angewandte Chemie - International Edition, 2015, 54, 10752-10757.	13.8	674
2	Ultrafast Formation of Amorphous Bimetallic Hydroxide Films on 3D Conductive Sulfide Nanoarrays for Largeâ€Currentâ€Density Oxygen Evolution Electrocatalysis. Advanced Materials, 2017, 29, 1700404.	21.0	462
3	Overall Water Splitting Catalyzed Efficiently by an Ultrathin Nanosheetâ€Built, Hollow Ni₃S₂â€Based Electrocatalyst. Advanced Functional Materials, 2016, 26, 4839-4847.	14.9	438
4	Corrosion engineering towards efficient oxygen evolution electrodes with stable catalytic activity for over 6000 hours. Nature Communications, 2018, 9, 2609.	12.8	389
5	Coupling Subâ€Nanometric Copper Clusters with Quasiâ€Amorphous Cobalt Sulfide Yields Efficient and Robust Electrocatalysts for Water Splitting Reaction. Advanced Materials, 2017, 29, 1606200.	21.0	350
6	Efficient electrocatalysis of overall water splitting by ultrasmall NixCo3âˆ'xS4 coupled Ni3S2 nanosheet arrays. Nano Energy, 2017, 35, 161-170.	16.0	339
7	Carbon-Armored Co₉S₈ Nanoparticles as All-pH Efficient and Durable H₂-Evolving Electrocatalysts. ACS Applied Materials & Interfaces, 2015, 7, 980-988.	8.0	335
8	Highly Active, Nonprecious Electrocatalyst Comprising Borophene Subunits for the Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2017, 139, 12370-12373.	13.7	335
9	Active Site Engineering in Porous Electrocatalysts. Advanced Materials, 2020, 32, e2002435.	21.0	304
10	In Situ Generation of Bifunctional, Efficient Fe-Based Catalysts from Mackinawite Iron Sulfide for Water Splitting. CheM, 2018, 4, 1139-1152.	11.7	271
11	Metallic Co₉S₈ nanosheets grown on carbon cloth as efficient binder-free electrocatalysts for the hydrogen evolution reaction in neutral media. Journal of Materials Chemistry A, 2016, 4, 6860-6867.	10.3	265
12	Self-template construction of hollow Co3O4 microspheres from porous ultrathin nanosheets and efficient noble metal-free water oxidation catalysts. Nanoscale, 2014, 6, 7255.	5.6	194
13	Activating Inert, Nonprecious Perovskites with Iridium Dopants for Efficient Oxygen Evolution Reaction under Acidic Conditions. Angewandte Chemie - International Edition, 2019, 58, 7631-7635.	13.8	176
14	High-performance oxygen evolution electrocatalysis by boronized metal sheets with self-functionalized surfaces. Energy and Environmental Science, 2019, 12, 684-692.	30.8	169
15	Electrocatalytic H₂production from seawater over Co, N-codoped nanocarbons. Nanoscale, 2015, 7, 2306-2316.	5.6	158
16	Ag@Co_{<i>x</i>}P Coreâ€“Shell Heterogeneous Nanoparticles as Efficient Oxygen Evolution Reaction Catalysts. ACS Catalysis, 2017, 7, 7038-7042.	11.2	144
17	Transitionâ€Metalâ€“Boron Intermetallics with Strong Interatomic dâ€“sp Orbital Hybridization for Highâ€Performance Electrocatalysis. Angewandte Chemie - International Edition, 2020, 59, 3961-3965.	13.8	139
18	Carbon-protected bimetallic carbide nanoparticles for a highly efficient alkaline hydrogen evolution reaction. Nanoscale, 2015, 7, 3130-3136.	5.6	133

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19	Activating Inert, Nonprecious Perovskites with Iridium Dopants for Efficient Oxygen Evolution Reaction under Acidic Conditions. Angewandte Chemie, 2019, 131, 7713-7717.	2.0	123
20	Bilayer porous polymer for efficient passive building cooling. Nano Energy, 2021, 85, 105971.	16.0	123
21	Understanding the Synergistic Effects of Cobalt Single Atoms and Small Nanoparticles: Enhancing Oxygen Reduction Reaction Catalytic Activity and Stability for Zincâ€Air Batteries. Advanced Functional Materials, 2021, 31, 2104735.	14.9	123
22	Perovskiteâ€Type Solid Solution Nanoâ€Electrocatalysts Enable Simultaneously Enhanced Activity and Stability for Oxygen Evolution. Advanced Materials, 2020, 32, e2001430.	21.0	107
23	Design of a Multilayered Oxygenâ€Evolution Electrode with High Catalytic Activity and Corrosion Resistance for Saline Water Splitting. Advanced Functional Materials, 2021, 31, 2101820.	14.9	103
24	Thermal Selfâ€Protection of Zincâ€Ion Batteries Enabled by Smart Hygroscopic Hydrogel Electrolytes. Advanced Energy Materials, 2020, 10, 2002898.	19.5	102
25	Growth of molybdenum carbide micro-islands on carbon cloth toward binder-free cathodes for efficient hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 16320-16326.	10.3	100
26	Transitionâ€Metalâ€“Boron Intermetallics with Strong Interatomic dâ€“sp Orbital Hybridization for Highâ€Performance Electrocatalysis. Angewandte Chemie, 2020, 132, 3989-3993.	2.0	88
27	<i>In situ</i> structural evolution of a nickel boride catalyst: synergistic geometric and electronic optimization for the oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 5288-5294.	10.3	69
28	Iridium-containing water-oxidation catalysts in acidic electrolyte. Chinese Journal of Catalysis, 2021, 42, 1054-1077.	14.0	66
29	Well-dispersed CoS₂ nano-octahedra grown on a carbon fibre network as efficient electrocatalysts for hydrogen evolution reaction. Catalysis Science and Technology, 2016, 6, 4545-4553.	4.1	62
30	General urea-assisted synthesis of carbon-coated metal phosphide nanoparticles for efficient hydrogen evolution electrocatalysis. Electrochimica Acta, 2016, 199, 99-107.	5.2	49
31	From solid-state metal alkoxides to nanostructured oxides: a precursor-directed synthetic route to functional inorganic nanomaterials. Inorganic Chemistry Frontiers, 2015, 2, 198-212.	6.0	48
32	Biaxially Strained MoS₂ Nanoshells with Controllable Layers Boost Alkaline Hydrogen Evolution. Advanced Materials, 2022, 34, e2202195.	21.0	43
33	Exploring Mn²⁺-location-dependent red emission from (Mn/Zn)â€“Gaâ€“Snâ€“S supertetrahedral nanoclusters with relatively precise dopant positions. Journal of Materials Chemistry C, 2016, 4, 10435-10444.	5.5	31
34	An ultrathin two-dimensional iridium-based perovskite oxide electrocatalyst with highly efficient {001} facets for acidic water oxidation. Journal of Energy Chemistry, 2022, 66, 619-627.	12.9	31
35	Surface-clean, phase-pure multi-metallic carbides for efficient electrocatalytic hydrogen evolution reaction. Inorganic Chemistry Frontiers, 2019, 6, 940-947.	6.0	29
36	Identifying Key Structural Subunits and Their Synergism in Low-Iridium Triple Perovskites for Oxygen Evolution in Acidic Media. Chemistry of Materials, 2020, 32, 3904-3910.	6.7	29

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37	Ultrafast surface modification of Ni3S2 nanosheet arrays with Ni-Mn bimetallic hydroxides for high-performance supercapacitors. Scientific Reports, 2018, 8, 4478.	3.3	22
38	Nano-netlike carbon fibers decorated with highly dispersed CoSe2 nanoparticles as efficient hydrogen evolution electrocatalysts. Journal of Alloys and Compounds, 2017, 702, 611-618.	5.5	20
39	Facile precursor-mediated synthesis of porous coreâ€“shell-type Co3O4 octahedra with large surface area for photochemical water oxidation. RSC Advances, 2014, 4, 22951.	3.6	16
40	Theoretical insights into nonprecious oxygen-evolution active sites in Tiâ€“Ir-Based perovskite solid solution electrocatalysts. Journal of Materials Chemistry A, 2020, 8, 218-223.	10.3	15
41	Electrocatalysis: Overall Water Splitting Catalyzed Efficiently by an Ultrathin Nanosheetâ€Built, Hollow Ni₃S₂â€Based Electrocatalyst (Adv. Funct. Mater. 27/2016). Advanced Functional Materials, 2016, 26, 4999-4999.	14.9	10
42	Li3V2(PO4)3 particles embedded in porous N-doped carbon as high-rate and long-life cathode material for Li-ion batteries. RSC Advances, 2015, 5, 78209-78214.	3.6	6
43	Orbital engineering of C3N monolayer to design efficient synergistic sites electrocatalyst for boosting alkaline hydrogen evolution. Applied Surface Science, 2022, 582, 152474.	6.1	5
44	Frontispiece: Coupling Mo₂C with Nitrogenâ€Rich Nanocarbon Leads to Efficient Hydrogenâ€Evolution Electrocatalytic Sites. Angewandte Chemie - International Edition, 2015, 54, .	13.8	4
45	Future directions of catalytic chemistry. Pure and Applied Chemistry, 2021, 93, 1411-1421.	1.9	4