

Huan Zhao

List of Publications by Year in descending order

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38
papers

2,754
citations

236925

25
h-index

315739

38
g-index

38
all docs

38
docs citations

38
times ranked

2864
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast site-to-site electron transfer of high-entropy alloy nanocatalyst driving redox electrocatalysis. Nature Communications, 2020, 11, 5437.	12.8	288
2	Controlled nâ€Doping in Airâ€Stable CsPbI ₂ Br Perovskite Solar Cells with a Record Efficiency of 16.79%. Advanced Functional Materials, 2020, 30, 1909972.	14.9	282
3	Multifunctional Enhancement for Highly Stable and Efficient Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2005776.	14.9	273
4	Precursor Engineering for Allâ€Inorganic CsPbI ₂ Br Perovskite Solar Cells with 14.78% Efficiency. Advanced Functional Materials, 2018, 28, 1803269.	14.9	264
5	A Novel Anion Doping for Stable CsPbI ₂ Br Perovskite Solar Cells with an Efficiency of 15.56% and an Open Circuit Voltage of 1.30 V. Advanced Energy Materials, 2019, 9, 1902279.	19.5	166
6	Demonstration of Orbital Angular Momentum Multiplexing and Demultiplexing Based on a Metasurface in the Terahertz Band. ACS Photonics, 2018, 5, 1726-1732.	6.6	111
7	Precursor Engineering for Ambientâ€Compatible Antisolventâ€Free Fabrication of Highâ€Efficiency CsPbI ₂ Br Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 2000691.	19.5	106
8	Multiâ€Site Electrocatalysts Boost pHâ€Universal Nitrogen Reduction by Highâ€Entropy Alloys. Advanced Functional Materials, 2021, 31, 2006939.	14.9	99
9	Europium and Acetate Coâ€Doping Strategy for Developing Stable and Efficient CsPbI ₂ Br Perovskite Solar Cells. Small, 2019, 15, e1904387.	10.0	95
10	The facile oil-phase synthesis of a multi-site synergistic high-entropy alloy to promote the alkaline hydrogen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 889-893.	10.3	80
11	Low-temperature and facile solution-processed two-dimensional TiS ₂ as an effective electron transport layer for UV-stable planar perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 9132-9138.	10.3	78
12	Advanced Ultrathin RuPdM (M = Ni, Co, Fe) Nanosheets Electrocatalyst Boosts Hydrogen Evolution. ACS Central Science, 2019, 5, 1991-1997.	11.3	78
13	Reconfigurable Terahertz Metasurface Pure Phase Holograms. Advanced Optical Materials, 2019, 7, 1801696.	7.3	76
14	Simultaneous Cesium and Acetate Coalloying Improves Efficiency and Stability of FA _{0.85} MA _{0.15} PbI ₃ Perovskite Solar Cell with an Efficiency of 21.95%. Solar Rrl, 2019, 3, 1900220.	5.8	74
15	Surface oxygen-mediated ultrathin PtRuM (Ni, Fe, and Co) nanowires boosting methanol oxidation reaction. Journal of Materials Chemistry A, 2020, 8, 2323-2330.	10.3	67
16	Coupling photoelectrochemical and electrochemical strategies in one probe electrode: Toward sensitive and reliable dual-signal bioassay for uracil-DNA glycosylase activity. Biosensors and Bioelectronics, 2019, 142, 111569.	10.1	62
17	High-performance nitrogen electroreduction at low overpotential by introducing Pb to Pd nanosponges. Applied Catalysis B: Environmental, 2020, 265, 118481.	20.2	62
18	A High Mobility Conjugated Polymer Enables Air and Thermally Stable CsPbI ₂ Br Perovskite Solar Cells with an Efficiency Exceeding 15%. Advanced Materials Technologies, 2019, 4, 1900311.	5.8	59

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19	Chemically coupled NiCoS/C nanocages as efficient electrocatalysts for nitrogen reduction reactions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 543-547.	10.3	52
20	Exposure of Definite Palladium Facets Boosts Electrocatalytic Nitrogen Fixation at Low Overpotential. <i>Advanced Energy Materials</i> , 2020, 10, 2002131.	19.5	45
21	Facet-controlled palladium nanocrystalline for enhanced nitrate reduction towards ammonia. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 620-628.	9.4	43
22	High-efficiency terahertz devices based on cross-polarization converter. <i>Scientific Reports</i> , 2017, 7, 17882.	3.3	37
23	Generation of Radial Polarized Lorentz Beam with Single Layer Metasurface. <i>Advanced Optical Materials</i> , 2018, 6, 1700925.	7.3	29
24	Noble Metal (Pt, Rh, Pd, Ir) Doped Ru/CNT Ultra-small Alloy for Acidic Hydrogen Evolution at High Current Density. <i>Small</i> , 2022, 18, e2104559.	10.0	28
25	Photoelectrochemical cell enhanced by ternary heterostructured photoanode: Toward high-performance self-powered cathodic cytosensing. <i>Biosensors and Bioelectronics</i> , 2019, 137, 52-57.	10.1	25
26	Mixture Phases Engineering of PtFe Nanofoams for Efficient Hydrogen Evolution. <i>Small</i> , 2022, 18, e2106947.	10.0	24
27	Homeotropic alignment through charge-transfer-induced columnar mesophase formation in an unsymmetrically substituted triphenylene derivative. <i>Pure and Applied Chemistry</i> , 2010, 82, 1993-2003.	1.9	21
28	Rapid and large-scale synthesis of ultra-small immiscible alloy supported catalysts. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120916.	20.2	20
29	Efficient nitrogen reduction to ammonia by fluorine vacancies with a multi-step promoting effect. <i>Journal of Materials Chemistry A</i> , 2021, 9, 894-899.	10.3	18
30	Significantly enhanced electrocatalytic N ₂ reduction to NH ₃ by surface selenization with multiple functions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20331-20336.	10.3	16
31	Ordered Vacancies on the Body-Centered Cubic PdCu Nanocatalysts. <i>Nano Letters</i> , 2021, 21, 9580-9586.	9.1	16
32	Hydrothermal deglycosylation and deconstruction effect of steam explosion: Application to high-valued glycyrrhizic acid derivatives from liquorice. <i>Food Chemistry</i> , 2020, 307, 125558.	8.2	13
33	Electron transporting organic materials with an exceptional large scale homeotropic molecular orientation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8554-8560.	2.8	12
34	A distance-triggered signaling on/off mechanism by plasmonic Au nanoparticles: toward advanced photocathodic DNA bioanalysis. <i>Chemical Communications</i> , 2020, 56, 1345-1348.	4.1	12
35	Ultrafast Generation of Nanostructured Noble Metal Aerogels by a Microwave Method for Electrocatalytic Hydrogen Evolution and Ethanol Oxidation. <i>ACS Applied Nano Materials</i> , 2021, 4, 11221-11230.	5.0	10
36	Introduction of an antifouling photoelectrode: an effective strategy for a high-performance photoelectrochemical cytosensor. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4836-4840.	5.8	5

#	ARTICLE	IF	CITATIONS
37	New design model for high efficiency cylindrical diffractive microlenses. Scientific Reports, 2017, 7, 16334.	3.3	4
38	High Efficiency Phase and Polarization Modulation Metasurfaces. Advanced Photonics Research, 2022, 3, .	3.6	4