Xiwen Du

List of Publications by Year
in descending order

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50	5,269	147801	197818
papers	citations	31 h-index	49 g-index

50	50	50	8032
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advancing Photoelectrochemical Energy Conversion through Atomic Design of Catalysts. Advanced Science, 2022, 9, e2104363.	11.2	21
2	Sulfateâ€Enabled Nitrate Synthesis from Nitrogen Electrooxidation on a Rhodium Electrocatalyst. Angewandte Chemie, 2022, 134, .	2.0	9
3	Sulfateâ€Enabled Nitrate Synthesis from Nitrogen Electrooxidation on a Rhodium Electrocatalyst. Angewandte Chemie - International Edition, 2022, 61, .	13.8	30
4	Valenceâ€State Effect of Iridium Dopant in NiFe(OH)₂ Catalyst for Hydrogen Evolution Reaction. Small, 2021, 17, e2100203.	10.0	31
5	Oxidized single nickel atoms embedded in Ru matrix for highly efficient hydrogen evolution reaction. Journal of Alloys and Compounds, 2021, 874, 159909.	5.5	8
6	Fine regulation of electron transfer in Ag@Co₃O₄ nanoparticles for boosting the oxygen evolution reaction. Chemical Communications, 2021, 57, 6284-6287.	4.1	3
7	Laserâ€Ablationâ€Produced Cobalt Nickel Phosphate with Highâ€Valence Nickel Ions as an Active Catalyst for the Oxygen Evolution Reaction. Chemistry - A European Journal, 2020, 26, 2793-2797.	3.3	18
8	Progress and Challenges Toward the Rational Design of Oxygen Electrocatalysts Based on a Descriptor Approach. Advanced Science, 2020, 7, 1901614.	11.2	133
9	Laser-Generated Grain Boundaries in Ruthenium Nanoparticles for Boosting Oxygen Evolution Reaction. ACS Catalysis, 2020, 10, 12575-12581.	11.2	55
10	Phase segregation reversibility in mixed-metal hydroxide water oxidation catalysts. Nature Catalysis, 2020, 3, 743-753.	34.4	199
11	Stable Rhodium (IV) Oxide for Alkaline Hydrogen Evolution Reaction. Advanced Materials, 2020, 32, e1908521.	21.0	115
12	Creating compressive stress at the NiOOH/NiO interface for water oxidation. Journal of Materials Chemistry A, 2020, 8, 10747-10754.	10.3	47
13	A Hydrogenâ€Deficient Nickelâ€“Cobalt Double Hydroxide for Photocatalytic Overall Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 11510-11515.	13.8	55
14	A Hydrogenâ€Deficient Nickelâ€“Cobalt Double Hydroxide for Photocatalytic Overall Water Splitting. Angewandte Chemie, 2020, 132, 11607-11612.	2.0	6
15	Irâ€“Oâ€“V Catalytic Group in Ir-Doped NiV(OH)₂ for Overall Water Splitting. ACS Energy Letters, 2019, 4, 1823-1829.	17.4	147
16	Co₃O₄ Nanoparticles with Ultrasmall Size and Abundant Oxygen Vacancies for Boosting Oxygen Involved Reactions. Advanced Functional Materials, 2019, 29, 1903444.	14.9	108
17	Ultrafine Ag Nanoparticles as Active Catalyst for Electrocatalytic Hydrogen Production. ChemCatChem, 2019, 11, 5976-5981.	3.7	21
18	Improving Interfacial Electron Transfer via Tuning Work Function of Electrodes for Electrocatalysis: From Theory to Experiment. Journal of Physical Chemistry C, 2019, 123, 28319-28326.	3.1	30

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19	Porous Copper Microspheres for Selective Production of Multicarbon Fuels via CO₂ Electroreduction. Small, 2019, 15, e1902582.	10.0	23
20	Engineering NiO/NiFe LDH Intersection to Bypass Scaling Relationship for Oxygen Evolution Reaction via Dynamic Tridimensional Adsorption of Intermediates. Advanced Materials, 2019, 31, e1804769.	21.0	264
21	MOFâ€Based Hierarchical Structures for Solarâ€Thermal Clean Water Production. Advanced Materials, 2019, 31, e1808249.	21.0	233
22	Rutheniumâ€Based Singleâ€Atom Alloy with High Electrocatalytic Activity for Hydrogen Evolution. Advanced Energy Materials, 2019, 9, 1803913.	19.5	270
23	Synthesis of MoX2 (X = Se or S) monolayers with high-concentration 1Tâ€² phase on 4H/fcc-Au nanorods for hydrogen evolution. Nano Research, 2019, 12, 1301-1305.	10.4	44
24	ZnO nanosheets with atomically thin ZnS overlayers for photocatalytic water splitting. Journal of Materials Chemistry A, 2018, 6, 9057-9063.	10.3	59
25	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. Nature Chemistry, 2018, 10, 149-154.	13.6	476
26	Copper adparticle enabled selective electrosynthesis of n-propanol. Nature Communications, 2018, 9, 4614.	12.8	153
27	Tuning Spin State of Rockâ€Saltâ€Based Oxides by Manipulation of Crystallinity for Efficient Oxygen Electrocatalysis. Advanced Energy Materials, 2018, 8, 1703469.	19.5	48
28	Bond-Energy-Integrated Descriptor for Oxygen Electrocatalysis of Transition Metal Oxides. Journal of Physical Chemistry Letters, 2018, 9, 3387-3391.	4.6	34
29	Modest Oxygenâ€Defective Amorphous Manganeseâ€Based Nanoparticle Mullite with Superior Overall Electrocatalytic Performance for Oxygen Reduction Reaction. Small, 2017, 13, 1603903.	10.0	69
30	Catalytically active and chemically inert CdIn₂S₄ coating on a CdS photoanode for efficient and stable water splitting. Nanoscale, 2017, 9, 6296-6301.	5.6	55
31	Tuning Band Structure of Cadmium Chalcogenide Nanoflake Arrays via Alloying for Efficient Photoelectrochemical Hydrogen Evolution. Langmuir, 2017, 33, 6457-6463.	3.5	6
32	Arrays of Ultrathin CdS Nanoflakes with High-Energy Surface for Efficient Gas Detection. ACS Applied Materials & Interfaces, 2017, 9, 602-609.	8.0	38
33	Localized Defects on Copper Sulfide Surface for Enhanced Plasmon Resonance and Water Splitting. Small, 2017, 13, 1700867.	10.0	48
34	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. Nature Communications, 2017, 8, 1509.	12.8	361
35	Strongly Coupled Nafion Molecules and Ordered Porous CdS Networks for Enhanced Visibleâ€Light Photoelectrochemical Hydrogen Evolution. Advanced Materials, 2016, 28, 4935-4942.	21.0	95
36	Top-Down Preparation of Active Cobalt Oxide Catalyst. ACS Catalysis, 2016, 6, 6699-6703.	11.2	113

#	Article	IF	Citations
37	Engineering hollow electrodes for hybrid solar cells for efficient light harvesting and carrier collection. Journal of Materials Chemistry A, 2016, 4, 17260-17266.	10.3	3
38	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. Nature Communications, 2016, 7, 12876.	12.8	568
39	Laser synthesis of clean mesocrystal of cupric oxide for efficient gas sensing. Journal of Materials Chemistry A, 2016, 4, 2699-2704.	10.3	23
40	CdO nanoflake arrays on ZnO nanorod arrays for efficient detection of diethyl ether. RSC Advances, 2016, 6, 2500-2503.	3.6	6
41	Photochemical Synthesis of Ultrafine Cubic Boron Nitride Nanoparticles under Ambient Conditions. Angewandte Chemie - International Edition, 2015, 54, 7051-7054.	13.8	29
42	A stable inverse opal structure of cadmium chalcogenide for efficient water splitting. Journal of Materials Chemistry A, 2015, 3, 18521-18527.	10.3	31
43	Freestanding Ultrathin Metallic Nanosheets: Materials, Synthesis, and Applications. Advanced Materials, 2015, 27, 5396-5402.	21.0	102
44	Synergistic synthesis of quasi-monocrystal CdS nanoboxes with high-energy facets. Journal of Materials Chemistry A, 2015, 3, 23106-23112.	10.3	5
45	Single crystalline Cu₂ZnSnS₄ nanosheet arrays for efficient photochemical hydrogen generation. RSC Advances, 2015, 5, 2543-2549.	3.6	53
46	CdS Nanoflake Arrays for Highly Efficient Light Trapping. Advanced Materials, 2015, 27, 740-745.	21.0	40
47	Highly Conductive CdS Inverse Opals for Photochemical Solar Cells. Advanced Functional Materials, 2014, 24, 707-715.	14.9	34
48	A topâ€“down strategy towards monodisperse colloidal lead sulphide quantum dots. Nature Communications, 2013, 4, 1695.	12.8	106
49	Nanomaterials via Laser Ablation/Irradiation in Liquid: A Review. Advanced Functional Materials, 2012, 22, 1333-1353.	14.9	775
50	Iridium Oxide Modified with Silver Single Atom for Boosting Oxygen Evolution Reaction in Acidic Media. ACS Energy Letters, 0, , 1588-1595.	17.4	69