

Lunhong Ai

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

5,260
citations

126907

33
h-index

197818

49
g-index

51
all docs

51
docs citations

51
times ranked

7660
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in nanostructured metal nitrides for water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19912-19933.	10.3	392
2	MIL-53(Fe): A Metal-Organic Framework with Intrinsic Peroxidase-Like Catalytic Activity for Colorimetric Biosensing. <i>Chemistry - A European Journal</i> , 2013, 19, 15105-15108.	3.3	358
3	MXene-derived TiO ₂ @C/g-C ₃ N ₄ heterojunctions for highly efficient nitrogen photofixation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4102-4110.	10.3	333
4	Cobalt/molybdenum carbide@N-doped carbon as a bifunctional electrocatalyst for hydrogen and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16929-16935.	10.3	258
5	Surface anion-rich NiS ₂ hollow microspheres derived from metal-organic frameworks as a robust electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20985-20992.	10.3	257
6	Solvothermal synthesis of MIL-53(Fe) hybrid magnetic composites for photoelectrochemical water oxidation and organic pollutant photodegradation under visible light. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3074-3081.	10.3	241
7	Adsorption of Methyl Orange from Aqueous Solution on Hydrothermal Synthesized Mg-Al Layered Double Hydroxide. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 4217-4225.	1.9	231
8	Magnetic cobalt nanoparticles embedded in hierarchically porous nitrogen-doped carbon frameworks for highly efficient and well-recyclable catalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7476-7482.	10.3	208
9	Cobalt nanoparticles embedded in porous N-rich carbon as an efficient bifunctional electrocatalyst for water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3204-3209.	10.3	207
10	Adsorption of Methylene Blue from Aqueous Solution with Activated Carbon/Cobalt Ferrite/Alginate Composite Beads: Kinetics, Isotherms, and Thermodynamics. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3475-3483.	1.9	206
11	Bioinspired Cobalt-Citrate Metal-Organic Framework as an Efficient Electrocatalyst for Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7193-7201.	8.0	206
12	Ultrathin Graphene Layers Encapsulating Nickel Nanoparticles Derived Metal-Organic Frameworks for Highly Efficient Electrocatalytic Hydrogen and Oxygen Evolution Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4771-4777.	6.7	176
13	Catalytic reduction of 4-nitrophenol by silver nanoparticles stabilized on environmentally benign macroscopic biopolymer hydrogel. <i>Bioresource Technology</i> , 2013, 132, 374-377.	9.6	165
14	Environmentally friendly light-driven synthesis of Ag nanoparticles in situ grown on magnetically separable biohydrogels as highly active and recyclable catalysts for 4-nitrophenol reduction. <i>Journal of Materials Chemistry</i> , 2012, 22, 23447.	6.7	152
15	Bamboo-Structured Nitrogen-Doped Carbon Nanotube Coencapsulating Cobalt and Molybdenum Carbide Nanoparticles: An Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9912-9920.	6.7	147
16	Hierarchical Co-FeP Branched Heterostructures for Highly Efficient Electrocatalytic Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2335-2342.	6.7	142
17	Mechanistic insight into oxygen evolution electrocatalysis of surface phosphate modified cobalt phosphide nanorod bundles and their superior performance for overall water splitting. <i>Electrochimica Acta</i> , 2017, 242, 355-363.	5.2	127
18	Hierarchical MoS ₂ nanosheets integrated Ti ₃ C ₂ MXenes for electrocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 965-976.	7.1	127

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19	Sacrificial template-directed synthesis of mesoporous manganese oxide architectures with superior performance for organic dye adsorption. <i>Nanoscale</i> , 2012, 4, 5401-5408.	5.6	119
20	Metal-organic framework-derived nickel phosphides as efficient electrocatalysts toward sustainable hydrogen generation from water splitting. <i>RSC Advances</i> , 2015, 5, 10290-10295.	3.6	117
21	Interlayer Expansion of Layered Cobalt Hydroxide Nanobelts to Highly Improve Oxygen Evolution Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7059-7067.	8.0	101
22	When Layered Nickel-Cobalt Silicate Hydroxide Nanosheets Meet Carbon Nanotubes: A Synergetic Coaxial Nanocable Structure for Enhanced Electrocatalytic Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 945-951.	8.0	97
23	Layered Phosphate-Incorporated Nickel-Cobalt Hydrosilicates for Highly Efficient Oxygen Evolution Electrocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4492-4498.	6.7	91
24	Non-precious cobalt oxalate microstructures as highly efficient electrocatalysts for oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9707-9713.	10.3	78
25	Rational Design of Ruthenium and Cobalt-Based Composites with Rich Metal-Insulator Interfaces for Efficient and Stable Overall Water Splitting in Acidic Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47894-47903.	8.0	76
26	Cobalt@nitrogen-doped bamboo-structured carbon nanotube to boost photocatalytic hydrogen evolution on carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 443-451.	20.2	72
27	Layered Bimetallic Iron-Nickel Alkoxide Microspheres as High-Performance Electrocatalysts for Oxygen Evolution Reaction in Alkaline Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6117-6125.	6.7	67
28	MOF-derived nanostructured cobalt phosphide assemblies for efficient hydrogen evolution reaction. <i>RSC Advances</i> , 2015, 5, 90265-90271.	3.6	61
29	Hierarchical porous quaternary Cu-Fe-S hollow chain microspheres: rapid microwave nonaqueous synthesis, growth mechanism, and their efficient removal of organic dye pollutant in water. <i>Journal of Materials Chemistry</i> , 2012, 22, 20586.	6.7	54
30	Spinel-type oxygen-incorporated Ni ³⁺ self-doped Ni ₃ S ₄ ultrathin nanosheets for highly efficient and stable oxygen evolution electrocatalysis. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 418-427.	9.4	43
31	Boosting charge transfer and hydrogen evolution performance of CdS nanocrystals hybridized with MoS ₂ nanosheets under visible light irradiation. <i>Applied Surface Science</i> , 2019, 484, 692-700.	6.1	37
32	Synthesis and magnetic performance of polyaniline/Mn-Zn ferrite nanocomposites with intrinsic conductivity. <i>Journal of Materials Science</i> , 2009, 44, 1024-1028.	3.7	35
33	Boosting the oxygen evolution electrocatalysis of layered nickel hydroxidenitrate nanosheets by iron doping. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10627-10636.	7.1	34
34	Synthesis of Hierarchical FeWO ₄ Architectures with {100}-Faceted Nanosheet Assemblies as a Robust Biomimetic Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1171-1178.	3.7	33
35	Self-sacrificial templating synthesis of porous quaternary Cu-Fe-S semiconductor nanotubes via microwave irradiation. <i>Nanotechnology</i> , 2012, 23, 495601.	2.6	31
36	Photothermally boosted water splitting electrocatalysis by broadband solar harvesting nickel phosphide within a quasi-MOF. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16479-16488.	10.3	30

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37	Cobalt/cerium-based metal-organic framework composites for enhanced oxygen evolution electrocatalysis. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 12893-12902.	7.1	26
38	Ultrathin nickel-cobalt inorganic-organic hydroxide hybrid nanobelts as highly efficient electrocatalysts for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2019, 318, 966-976.	5.2	17
39	Edge-rich MoS ₂ nanosheets anchored on layered Ti ₃ C ₂ MXene for highly efficient and rapid catalytic reduction of 4-nitrophenol and methylene blue. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161900.	5.5	16
40	Highly Efficient Peroxymonosulfate Activation by Surface Oxidized Nickel Phosphide with Dual Active Sites. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22040-22048.	3.7	15
41	Plasmonic MoO ₂ coupled with sulfur-incorporated NiMoO ₄ as multifunctional heterostructures for solar thermoelectric self-powered urea electrolysis. <i>Applied Surface Science</i> , 2022, 600, 154116.	6.1	13
42	Frequency-dependent dielectric and electric modulus properties of Li ⁺ -Ni ²⁺ -Sm ³⁺ -Fe ³⁺ -O spinel embedded in conducting polymer. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 206-210.	2.2	11
43	Facile synthesis and characterization of polypyrrole/Co ₃ O ₄ nanocomposites with adjustable intrinsic electroconductivity. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 410-415.	2.2	11
44	An investigation on synthesis and magnetic properties of ferromagnetic nanoparticles of nickel ferrite coated with TiO ₂ . <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 257-261.	2.2	10
45	Broadband Nickel Sulfide/Nickel Foam-Based Solar Evaporator for Highly Efficient Water Purification and Electricity Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	9
46	Synergistically boosting oxygen evolution performance of iron-tannic electrocatalyst via localized photothermal effect. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 638, 128248.	4.7	9
47	EFFECT OF SAMARIUM DOPING ON THE STRUCTURAL AND MAGNETIC PROPERTIES OF THE LITHIUM ⁺ -NICKEL FERRITE. <i>Modern Physics Letters B</i> , 2008, 22, 2027-2033.	1.9	4
48	Microwave-assisted synthesis of silver nanocrystals in benzyl alcohol and their subsequent in situ chemical transformation into Ag ⁺ -AgCl nanohybrids for plasmonic photocatalysis. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 589-595.	2.3	4
49	One stone, two birds: Multifunctional hierarchical iron sulfide nanosheet arrays enabling self-powered solar thermoelectric water electrolysis. <i>Renewable Energy</i> , 2022, 195, 230-237.	8.9	4
50	PREPARATION, STRUCTURAL CHARACTERIZATION AND MAGNETIC PROPERTIES OF La-SUBSTITUTED Co FERRITES VIA A MODIFIED CITRATE PRECURSOR ROUTE. <i>Modern Physics Letters B</i> , 2009, 23, 3289-3297.	1.9	2