Jun Zhong

List of Publications by Year
in descending order

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75 papers	9,085 citations	81900 39 h-index	74163 75 g-index
75 all docs	75 docs citations	75 times ranked	12195 citing authors

#	Article	IF	Citations
1	Highly efficient CoNiP nanoboxes on graphene oxide for the hydrolysis of ammonia borane. Chemical Engineering Journal, 2022, 428, 131219.	12.7	35
2	Water-soluble peroxotitanium complex: A novel strategy to prepare Fe2O3/Fe2TiO5 photoanode with enhanced water oxidation. Journal of Alloys and Compounds, 2022, 898, 162930.	5.5	8
3	A half-wave rectifying triboelectric nanogenerator for self-powered water splitting towards hydrogen production. Nano Energy, 2022, 93, 106870.	16.0	37
4	A high-voltage solar rechargeable device based on a CoPi/BiVO₄ faradaic junction. Journal of Materials Chemistry A, 2022, 10, 1802-1807.	10.3	6
5	Monodisperse Ni-clusters anchored on carbon nitride for efficient photocatalytic hydrogen evolution. Chinese Journal of Catalysis, 2022, 43, 536-545.	14.0	15
6	FeF and Fe2ZrO5 Co-modified hematite for highly efficient solar water splitting. Journal of Energy Chemistry, 2022, 69, 414-420.	12.9	14
7	Homogenizing Li₂CO₃ Nucleation and Growth through High-Density Single-Atomic Ru Loading toward Reversible Li-CO₂ Reaction. ACS Applied Materials & Interfaces, 2022, 14, 18561-18569.	8.0	17
8	Improved Water Oxidation of Fe₂O₃/Fe₂TiO₅ Photoanode by Functionalizing with a Hydrophilic Organic Hole Storage Overlayer. ACS Catalysis, 2022, 12, 7833-7842.	11.2	36
9	Ternary metallic CuxCo1â^'xPtyO/RGO catalyst with internal synergistic effect for efficient hydrolysis of ammonia-borane. Applied Surface Science, 2021, 537, 147823.	6.1	7
10	N and Sn Co-Doped hematite photoanodes for efficient solar water oxidation. Journal of Colloid and Interface Science, 2021, 585, 660-667.	9.4	12
11	Carbon nanotube supported PtO nanoparticles with hybrid chemical states for efficient hydrogen evolution. Journal of Energy Chemistry, 2021, 58, 364-369.	12.9	16
12	Alloying Nickel with Molybdenum Significantly Accelerates Alkaline Hydrogen Electrocatalysis. Angewandte Chemie, 2021, 133, 5835-5841.	2.0	37
13	Alloying Nickel with Molybdenum Significantly Accelerates Alkaline Hydrogen Electrocatalysis. Angewandte Chemie - International Edition, 2021, 60, 5771-5777.	13.8	182
14	In-situ surface reconstruction in Pt and P co-treated hematite for enhanced water oxidation. Chemical Engineering Journal, 2021, 413, 127416.	12.7	9
15	Crystal Splintering of Î²-MnO₂ Induced by Interstitial Ru Doping Toward Reversible Oxygen Conversion. Chemistry of Materials, 2021, 33, 4135-4145.	6.7	34
16	Cobalt coordination with pyridines in sulfurized polyacrylonitrile cathodes to form conductive pathways and catalytic M-N4S sites for accelerated Li-S kinetics. Journal of Energy Chemistry, 2021, 61, 170-178.	12.9	28
17	Black phosphorus nanoflakes decorated hematite photoanode with functional phosphate bridges for enhanced water oxidation. Chemical Engineering Journal, 2021, 425, 131500.	12.7	10
18	Revealing Hydrogen Evolution Performance of Single-Atom Platinum Electrocatalyst with Polyoxometalate Molecular Models. ACS Energy Letters, 2021, 6, 4055-4062.	17.4	35

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19	A CO₂ adsorption dominated carbon defect-based electrocatalyst for efficient carbon dioxide reduction. Journal of Materials Chemistry A, 2020, 8, 1205-1211.	10.3	75
20	Topotactically Transformed Polygonal Mesopores on Ternary Layered Double Hydroxides Exposing Underâ€Coordinated Metal Centers for Accelerated Water Dissociation. Advanced Materials, 2020, 32, e2006784.	21.0	186
21	Blue Energy Collection toward Allâ€Hours Selfâ€Powered Chemical Energy Conversion. Advanced Energy Materials, 2020, 10, 2001041.	19.5	54
22	Cu atomic clusters on N-doped porous carbon with tunable oxidation state for the highly-selective electroreduction of CO₂. Materials Advances, 2020, 1, 2286-2292.	5.4	4
23	S-Doped Ni(OH)₂ nano-electrocatalyst confined in semiconductor zeolite with enhanced oxygen evolution activity. Journal of Materials Chemistry A, 2020, 8, 11255-11260.	10.3	31
24	Single atoms or not? The limitation of EXAFS. Applied Physics Letters, 2020, 116, .	3.3	46
25	Highly Efficient Oxygen Evolution by a Thermocatalytic Process Cascaded Electrocatalysis Over Sulfurâ€Treated Feâ€Based Metalâ€“Organicâ€Frameworks. Advanced Energy Materials, 2020, 10, 2000184.	19.5	75
26	Understanding Photoelectrochemical Water Oxidation with X-ray Absorption Spectroscopy. ACS Energy Letters, 2020, 5, 975-993.	17.4	52
27	Multi-ion Modulated Single-Step Synthesis of a Nanocarbon Embedded with a Defect-Rich Nanoparticle Catalyst for a High Loading Sulfur Cathode. ACS Applied Materials & Interfaces, 2020, 12, 12727-12735.	8.0	27
28	Pt-O bond as an active site superior to Pt0 in hydrogen evolution reaction. Nature Communications, 2020, 11, 490.	12.8	184
29	Hybridized Mechanical and Solar Energy-Driven Self-Powered Hydrogen Production. Nano-Micro Letters, 2020, 12, 88.	27.0	31
30	Morphological and Electronic Tuning of Ni₂P through Iron Doping toward Highly Efficient Water Splitting. ACS Catalysis, 2019, 9, 8882-8892.	11.2	227
31	Co-doped carbon layer to lower the onset potential of hematite for solar water oxidation. Applied Catalysis B: Environmental, 2019, 258, 117962.	20.2	28
32	Boosting Hydrogen Transfer during Volmer Reaction at Oxides/Metal Nanocomposites for Efficient Alkaline Hydrogen Evolution. ACS Energy Letters, 2019, 4, 3002-3010.	17.4	142
33	Weakening hydrogen adsorption on nickel via interstitial nitrogen doping promotes bifunctional hydrogen electrocatalysis in alkaline solution. Energy and Environmental Science, 2019, 12, 3522-3529.	30.8	177
34	Mega High Utilization of Sodium Metal Anodes Enabled by Single Zinc Atom Sites. Nano Letters, 2019, 19, 7827-7835.	9.1	86
35	Hybrid CuCoOâ€“GO enables ultrasensitive detection of antibiotics with enhanced laser desorption/ionization at nano-interfaces. Chemical Science, 2019, 10, 257-267.	7.4	19
36	Boosting the performance of hematite photoanodes for solar water oxidation by synergistic W-incorporation and Zr-passivation. International Journal of Hydrogen Energy, 2019, 44, 16436-16442.	7.1	9

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37	Single-cluster Au as an usher for deeply cyclable Li metal anodes. Journal of Materials Chemistry A, 2019, 7, 14496-14503.	10.3	51
38	Carbon nitride supported Ni_{0.5}Co_{0.5}O nanoparticles with strong interfacial interaction to enhance the hydrolysis of ammonia borane. RSC Advances, 2019, 9, 11552-11557.	3.6	13
39	Single-atom catalyst boosts electrochemical conversion reactions in batteries. Energy Storage Materials, 2019, 18, 246-252.	18.0	203
40	Cooperativity by Multi-Metals Confined in Supertetrahedral Sulfide Nanoclusters To Enhance Electrocatalytic Hydrogen Evolution. Chemistry of Materials, 2019, 31, 553-559.	6.7	48
41	Câ€“O^{â^'}â€“K⁺ (Na⁺) groups in non-doped carbon as active sites for the oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 8955-8961.	10.3	28
42	Rational Synthesis and Assembly of Ni₃S₄ Nanorods for Enhanced Electrochemical Sodium-Ion Storage. ACS Nano, 2018, 12, 1829-1836.	14.6	104
43	U₂@I_h(7)-C₈₀: Crystallographic Characterization of a Long-Sought Dimetallic Actinide Endohedral Fullerene. Journal of the American Chemical Society, 2018, 140, 3907-3915.	13.7	96
44	Liquid-Metal-Based Super-Stretchable and Structure-Designable Triboelectric Nanogenerator for Wearable Electronics. ACS Nano, 2018, 12, 2027-2034.	14.6	353
45	Cascaded photo-potential in a carbon dot-hematite system driving overall water splitting under visible light. Nanoscale, 2018, 10, 2454-2460.	5.6	43
46	Electrochemical CO₂ Reduction with Atomic Ironâ€Dispersed on Nitrogenâ€Doped Graphene. Advanced Energy Materials, 2018, 8, 1703487.	19.5	369
47	Cube-like CuCoO nanostructures on reduced graphene oxide for H₂ generation from ammonia borane. Inorganic Chemistry Frontiers, 2018, 5, 1180-1187.	6.0	39
48	Boron-passivated surface Fe^(iv) defects in hematite for highly efficient water oxidation. Nanoscale, 2018, 10, 7033-7039.	5.6	25
49	Photocharged Fe₂TiO₅/Fe₂O₃ Photoanode for Enhanced Photoelectrochemical Water Oxidation. Journal of Physical Chemistry C, 2018, 122, 29268-29273.	3.1	24
50	Carbon Defect-Induced Reversible Carbonâ€“Oxygen Interfaces for Efficient Oxygen Reduction. ACS Applied Materials & Interfaces, 2018, 10, 39735-39744.	8.0	45
51	Efficient Photoelectrochemical Water Oxidation on Hematite with Fluorineâ€Doped FeOOH and FeNiOOH as Dual Cocatalysts. ChemSusChem, 2018, 11, 3783-3789.	6.8	54
52	Atomic-scale understanding of the electronic structure-crystal facets synergy of nanopyramidal CoPi/BiVO4 hybrid photocatalyst for efficient solar water oxidation. Nano Energy, 2018, 53, 483-491.	16.0	31
53	Highly efficient hydrogen evolution triggered by a multi-interfacial Ni/WC hybrid electrocatalyst. Energy and Environmental Science, 2018, 11, 2114-2123.	30.8	224
54	Triboelectric Nanogenerator Driven Self-Powered Photoelectrochemical Water Splitting Based on Hematite Photoanodes. ACS Nano, 2018, 12, 8625-8632.	14.6	76

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55	Impacts of Carbon Dots on Rice Plants: Boosting the Growth and Improving the Disease Resistance. ACS Applied Bio Materials, 2018, 1, 663-672.	4.6	143
56	Lowering the Onset Potential of Fe₂TiO₅/Fe₂O₃ Photoanodes by Interface Structures: F- and Rh-Based Treatments. ACS Catalysis, 2017, 7, 4062-4069.	11.2	61
57	The morphological effect on electronic structure and electrical transport properties of one-dimensional carbon nanostructures. RSC Advances, 2017, 7, 21079-21084.	3.6	2
58	Fe2TiO5-incorporated hematite with surface P-modification for high-efficiency solar water splitting. Nano Energy, 2017, 32, 526-532.	16.0	50
59	Pt_xNi_{10â^'x}O nanoparticles supported on N-doped graphene oxide with a synergetic effect for highly efficient hydrolysis of ammonia borane. Catalysis Science and Technology, 2017, 7, 5135-5142.	4.1	23
60	Carbon coated bimetallic sulfide nanodots/carbon nanorod heterostructure enabling long-life lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 25625-25631.	10.3	41
61	Loading the FeNiOOH cocatalyst on Pt-modified hematite nanostructures for efficient solar water oxidation. Physical Chemistry Chemical Physics, 2016, 18, 10453-10458.	2.8	55
62	Hydrogenated hematite nanostructures for high-efficiency solar water oxidation. RSC Advances, 2016, 6, 92206-92212.	3.6	6
63	Cu_xCo_{1â^'x}O Nanoparticles on Graphene Oxide as A Synergistic Catalyst for Highâ€Efficiency Hydrolysis of Ammoniaâ€“Borane. Angewandte Chemie, 2016, 128, 12129-12133.	2.0	22
64	Cu_xCo_{1â^'x}O Nanoparticles on Graphene Oxide as A Synergistic Catalyst for Highâ€Efficiency Hydrolysis of Ammoniaâ€“Borane. Angewandte Chemie - International Edition, 2016, 55, 11950-11954.	13.8	186
65	Metal-free efficient photocatalyst for stable visible water splitting via a two-electron pathway. Science, 2015, 347, 970-974.	12.6	3,803
66	Thin-Layer Fe₂TiO₅ on Hematite for Efficient Solar Water Oxidation. ACS Nano, 2015, 9, 5348-5356.	14.6	121
67	Revealing the synergetic effects in Ni nanoparticle-carbon nanotube hybrids by scanning transmission X-ray microscopy and their application in the hydrolysis of ammonia borane. Nanoscale, 2015, 7, 9715-9722.	5.6	38
68	Probing the Interfacial Interaction in Layered-Carbon-Stabilized Iron Oxide Nanostructures: A Soft X-ray Spectroscopic Study. ACS Applied Materials & Interfaces, 2015, 7, 7863-7868.	8.0	23
69	Carbon-coated Î±-Fe₂O₃ nanostructures for efficient anode of Li-ion battery. Journal of Materials Chemistry A, 2015, 3, 5183-5188.	10.3	67
70	Synchrotron Soft Xâ€ray Absorption Spectroscopy Study of Carbon and Silicon Nanostructures for Energy Applications. Advanced Materials, 2014, 26, 7786-7806.	21.0	84
71	Hydrogen-treated hematite nanostructures with low onset potential for highly efficient solar water oxidation. Journal of Materials Chemistry A, 2014, 2, 6727.	10.3	87
72	Coupling Ti-doping and oxygen vacancies in hematite nanostructures for solar water oxidation with high efficiency. Journal of Materials Chemistry A, 2014, 2, 2491.	10.3	128

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73	Facile synthesis of carbon-coated hematite nanostructures for solar water splitting. Energy and Environmental Science, 2013, 6, 1965.	30.8	111
74	Ti-doped hematite nanostructures for solar water splitting with high efficiency. Journal of Applied Physics, 2012, 112, .	2.5	106
75	Probing solid state N-doping in graphene by X-ray absorption near-edge structure spectroscopy. Carbon, 2012, 50, 335-338.	10.3	111