Ning Zhang

List of Publications by Year
in descending order

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88 papers	8,203 citations	81743 39 h-index	49773 87 g-index
90 all docs	90 docs citations	90 times ranked	10382 citing authors

#	Article	IF	Citations
1	Boosting electrochemical hydrogen evolution by coupling anodically oxidative dehydrogenation of benzylamine to benzonitrile. Chinese Chemical Letters, 2023, 34, 107319.	4.8	10
2	Phosphate-induced interfacial electronic engineering in VPO4-Ni2P heterostructure for improved electrochemical water oxidation. Chinese Chemical Letters, 2022, 33, 452-456.	4.8	12
3	Molecular-Scale Manipulation of Layer Sequence in Heteroassembled Nanosheet Films toward Oxygen Evolution Electrocatalysts. ACS Nano, 2022, 16, 4028-4040.	7.3	29
4	Alloy-buffer-controlled van der Waals epitaxial growth of aligned tellurene. Nano Research, 2022, 15, 5712-5718.	5.8	4
5	Governing Interlayer Strain in Bismuth Nanocrystals for Efficient Ammonia Electrosynthesis from Nitrate Reduction. ACS Nano, 2022, 16, 4795-4804.	7.3	76
6	Synergizing Inter and Intraband Transitions in Defective Tungsten Oxide for Efficient Photocatalytic Alcohol Dehydration to Alkenes. Jacs Au, 2022, 2, 1160-1168.	3.6	12
7	Topological phase change transistors based on tellurium Weyl semiconductor. Science Advances, 2022, 8, .	4.7	17
8	Improving Câ€“Nâ€“FeO_x Oxygen Evolution Electrocatalysts through Hydroxyl-Modulated Local Coordination Environment. ACS Catalysis, 2022, 12, 7443-7452.	5.5	12
9	Serpentine Ni₃Ge₂O₅(OH)₄ Nanosheets Grow on Porous Mo₂N for an Efficient Oxygen Evolution Reaction. Energy & Fuels, 2022, 36, 11467-11476.	2.5	4
10	Î²â€cyclodextrin as Lithiumâ€ion Diffusion Channel with Enhanced Kinetics for Stable Silicon Anode. Energy and Environmental Materials, 2021, 4, 72-80.	7.3	36
11	Self-reconstruction mediates isolated Pt tailored nanoframes for highly efficient catalysis. Journal of Materials Chemistry A, 2021, 9, 22501-22508.	5.2	5
12	Lattice oxygen redox chemistry in solid-state electrocatalysts for water oxidation. Energy and Environmental Science, 2021, 14, 4647-4671.	15.6	190
13	Spatially Confined Formation of Single Atoms in Highly Porous Carbon Nitride Nanoreactors. ACS Nano, 2021, 15, 7790-7798.	7.3	33
14	Double Confined MoO₂/Sn/NC@NC Nanotubes: Solidâ€“Liquid Synthesis, Conformal Transformation, and Excellent Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2021, 13, 19836-19845.	4.0	15
15	Metal Substitution Steering Electron Correlations in Pyrochlore Ruthenates for Efficient Acidic Water Oxidation. ACS Nano, 2021, 15, 8537-8548.	7.3	54
16	Insights into the critical dual-effect of acid treatment on ZnxCd1-xS for enhanced photocatalytic production of syngas under visible light. Applied Catalysis B: Environmental, 2021, 288, 119976.	10.8	41
17	Fieldâ€Effect Chiral Anomaly Devices with Dirac Semimetal. Advanced Functional Materials, 2021, 31, 2104192.	7.8	13
18	Tuning Interfacial Active Sites over Porous Mo₂N-Supported Cobalt Sulfides for Efficient Hydrogen Evolution Reactions in Acid and Alkaline Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 41573-41583.	4.0	30

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19	Metal-free tellurene cocatalyst with tunable bandgap for enhanced photocatalytic hydrogen production. Materials Today Energy, 2021, 21, 100720.	2.5	18
20	Preparation of carbon nitride from different precursors through pyrolysis: Correlating the photocatalytic activity to the crystallinity and disorder. Journal of Environmental Chemical Engineering, 2021, 9, 106410.	3.3	3
21	Lithium doped nickel oxide nanocrystals with a tuned electronic structure for oxygen evolution reaction. Chemical Communications, 2021, 57, 6070-6073.	2.2	22
22	Photo-irradiation tunes highly active sites over Î²-Ni(OH)₂ nanosheets for the electrocatalytic oxygen evolution reaction. Chemical Communications, 2021, 57, 9060-9063.	2.2	12
23	One-Pot Synthesis of Nitrogen-Doped TiO2 with Supported Copper Nanocrystalline for Photocatalytic Environment Purification under Household White LED Lamp. Molecules, 2021, 26, 6221.	1.7	3
24	Electronic configuration modulation of tin dioxide by phosphorus dopant for pathway change in electrocatalytic water oxidation. Inorganic Chemistry Frontiers, 2021, 9, 83-89.	3.0	5
25	Serpentine CoxNi3-xGe2O5(OH)4 nanosheets with tuned electronic energy bands for highly efficient oxygen evolution reaction in alkaline and neutral electrolytes. Applied Catalysis B: Environmental, 2020, 260, 118184.	10.8	28
26	Electrocatalytic oxygen and hydrogen evolution reactions at Ni3B/Fe2O3 nanotube arrays under visible light radiation. Catalysis Science and Technology, 2020, 10, 8305-8313.	2.1	2
27	Ultrathin Nanosheet-Assembled Coâ€“Fe Hydroxide Nanotubes: Sacrificial Template Synthesis, Topotactic Transformation, and Their Application as Electrocatalysts for Efficient Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2020, 12, 46578-46587.	4.0	12
28	A Ternary Dumbbell Structure with Spatially Separated Catalytic Sites for Photocatalytic Overall Water Splitting. Advanced Science, 2020, 7, 1903568.	5.6	104
29	Lattice oxygen activation enabled by high-valence metal sites for enhanced water oxidation. Nature Communications, 2020, 11, 4066.	5.8	337
30	Nano Highâ€Entropy Materials: Synthesis Strategies and Catalytic Applications. Small Structures, 2020, 1, 2000033.	6.9	80
31	Metalâ€“Organic Framework Hexagonal Nanoplates: Bottom-up Synthesis, Topotactic Transformation, and Efficient Oxygen Evolution Reaction. Journal of the American Chemical Society, 2020, 142, 7317-7321.	6.6	140
32	Multi-shelled cobaltâ€“nickel oxide/phosphide hollow spheres for an efficient oxygen evolution reaction. Dalton Transactions, 2020, 49, 10918-10927.	1.6	6
33	Plasma-treatment induced H2O dissociation for the enhancement of photocatalytic CO2 reduction to CH4 over graphitic carbon nitride. Applied Surface Science, 2020, 508, 145173.	3.1	44
34	Synthesis of Co(II)-Fe(III) Hydroxide Nanocones with Mixed Octahedral/Tetrahedral Coordination toward Efficient Electrocatalysis. Chemistry of Materials, 2020, 32, 4232-4240.	3.2	26
35	Computational Design of Transition Metal Single-Atom Electrocatalysts on PtS₂ for Efficient Nitrogen Reduction. ACS Applied Materials & Interfaces, 2020, 12, 20448-20455.	4.0	58
36	Optoelectronic resistive random access memory for neuromorphic vision sensors. Nature Nanotechnology, 2019, 14, 776-782.	15.6	783

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37	Cobalt iron phosphide nanoparticles embedded within a carbon matrix as highly efficient electrocatalysts for the oxygen evolution reaction. Chemical Communications, 2019, 55, 9212-9215.	2.2	23
38	Robust Photoelectrochemical Oxygen Evolution with N, Feâ€“CoS₂ Nanorod Arrays. ACS Applied Materials & Interfaces, 2019, 11, 44214-44222.	4.0	21
39	Hybrid Nanostructures of Bimetallic NiCo Nitride/N-Doped Reduced Graphene Oxide as Efficient Bifunctional Electrocatalysts for Rechargeable Znâ€“Air Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 19612-19620.	3.2	41
40	CeO₂-Induced Interfacial Co²⁺ Octahedral Sites and Oxygen Vacancies for Water Oxidation. ACS Catalysis, 2019, 9, 6484-6490.	5.5	278
41	Activating Hematite Nanoplates via Partial Reduction for Electrocatalytic Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 11841-11849.	3.2	35
42	Metalâ€“Organic Framework Coating Enhances the Performance of Cu₂O in Photoelectrochemical CO₂ Reduction. Journal of the American Chemical Society, 2019, 141, 10924-10929.	6.6	219
43	Heterostructured NiFe oxide/phosphide nanoflakes for efficient water oxidation. Dalton Transactions, 2019, 48, 8442-8448.	1.6	6
44	Activity enhancement of layered cobalt hydroxide nanocones by tuning interlayer spacing and phosphidation for electrocatalytic water oxidation in neutral solutions. Inorganic Chemistry Frontiers, 2019, 6, 1744-1752.	3.0	11
45	Ag1.69Sb2.27O6.25 coupled carbon nitride photocatalyst with high redox potential for efficient multifunctional environmental applications. Applied Surface Science, 2019, 487, 82-90.	3.1	14
46	Programmable Polymer Actuators Perform Continuous Helical Motions Driven by Moisture. ACS Applied Materials & Interfaces, 2019, 11, 20473-20481.	4.0	45
47	Post-synthesis isomorphous substitution of layered Coâ€“Mn hydroxide nanocones with graphene oxide as high-performance supercapacitor electrodes. Nanoscale, 2019, 11, 6165-6173.	2.8	39
48	Engineering of carbon and other protective coating layers for stabilizing silicon anode materials. , 2019, 1, 219-245.		94
49	Self-Supported Fe-Doped CoP Nanowire Arrays Grown on Carbon Cloth with Enhanced Properties in Lithium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 406-412.	2.5	29
50	Advanced Electrocatalytic Performance of Ni-Based Materials for Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 341-349.	3.2	43
51	Defect engineering: A versatile tool for tuning the activation of key molecules in photocatalytic reactions. Journal of Energy Chemistry, 2019, 37, 43-57.	7.1	143
52	Recent progress on advanced design for photoelectrochemical reduction of CO2 to fuels. Science China Materials, 2018, 61, 771-805.	3.5	172
53	Hierarchical CoO/MnCo₂O_{4.5} nanorod arrays on flexible carbon cloth as high-performance anode materials for lithium-ion batteries. Dalton Transactions, 2018, 47, 3775-3784.	1.6	38
54	Controllable Fabrication and Tuned Electrochemical Performance of Potassium Coâ€“Ni Phosphate Microplates as Electrodes in Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 3506-3514.	4.0	63

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55	Ni₂P₂O₇Nanoarrays with Decorated C₃N₄Nanosheets as Efficient Electrode for Supercapacitors. ACS Applied Energy Materials, 2018, 1, 2016-2023.	2.5	50
56	Advanced Supercapacitors Based on Î±-Ni(OH)₂ Nanoplates/Graphene Composite Electrodes with High Energy and Power Density. ACS Applied Energy Materials, 2018, 1, 1496-1505.	2.5	26
57	Electrosynthesis of Co3O4 and Co(OH)2 ultrathin nanosheet arrays for efficient electrocatalytic water splitting in alkaline and neutral media. Nano Research, 2018, 11, 323-333.	5.8	65
58	Serpentine Ni₃Ge₂O₅(OH)₄ Nanosheets with Tailored Layers and Size for Efficient Oxygen Evolution Reactions. Small, 2018, 14, e1803015.	5.2	24
59	Bioinspired ultra-stretchable and anti-freezing conductive hydrogel fibers with ordered and reversible polymer chain alignment. Nature Communications, 2018, 9, 3579.	5.8	201
60	Defect engineering in photocatalytic materials. Nano Energy, 2018, 53, 296-336.	8.2	732
61	Selective fabrication of porous iron oxides hollow spheres and nanofibers by electrospinning for photocatalytic water purification. Solid State Sciences, 2018, 82, 24-28.	1.5	11
62	Tuning nanosheet Fe₂O₃ photoanodes with C₃N₄ and p-type CoO_x decoration for efficient and stable water splitting. Catalysis Science and Technology, 2018, 8, 3144-3150.	2.1	15
63	Three-dimensionally interconnected Si frameworks derived from natural halloysite clay: a high-capacity anode material for lithium-ion batteries. Dalton Transactions, 2018, 47, 7522-7527.	1.6	28
64	Refining Defect States in W₁₈O₄₉ by Mo Doping: A Strategy for Tuning N₂ Activation towards Solar-Driven Nitrogen Fixation. Journal of the American Chemical Society, 2018, 140, 9434-9443.	6.6	722
65	Controllable Fabrication of Rare-Earth-Doped Gd₂O₂SO₄@SiO₂ Double-Shell Hollow Spheres for Efficient Upconversion Luminescence and Magnetic Resonance Imaging. ACS Sustainable Chemistry and Engineering, 2018, 6, 10463-10471.	3.2	14
66	Rare-earth-doped yttrium oxide nanoplatelets and nanotubes: controllable fabrication, topotactic transformation and upconversion luminescence. CrystEngComm, 2018, 20, 5025-5032.	1.3	7
67	Binder-Free Co₄N Nanoarray on Carbon Cloth as Flexible High-Performance Anode for Lithium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 4432-4439.	2.5	13
68	Hexagonal Zn_{1â^'x}Cd_xS (0.2 â‰¤ x â‰¤ 1) solid solution photocatalysts for H₂ generation from water. Catalysis Science and Technology, 2017, 7, 982-987.	2.1	47
69	Hierarchical yolkâ€“shell layered potassium niobate for tuned pH-dependent photocatalytic H₂ evolution. Catalysis Science and Technology, 2017, 7, 1000-1005.	2.1	27
70	Bioinspired Design of Strong, Tough, and Highly Conductive Polyol-Polypyrrole Composites for Flexible Electronics. ACS Applied Materials & Interfaces, 2017, 9, 5692-5698.	4.0	64
71	PdPt Alloy Nanocatalysts Supported on TiO₂: Maneuvering Metalâ€“Hydrogen Interactions for Lightâ€Driven and Waterâ€Donating Selective Alkyne Semihydrogenation. Small, 2017, 13, 1604173.	5.2	44
72	Defective Tungsten Oxide Hydrate Nanosheets for Boosting Aerobic Coupling of Amines: Synergistic Catalysis by Oxygen Vacancies and BrÃ¸nsted Acid Sites. Small, 2017, 13, 1701354.	5.2	62

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73	Layered rare-earth hydroxide nanocones with facile host composition modification and anion-exchange feature: topotactic transformation into oxide nanocones for upconversion. Nanoscale, 2017, 9, 8185-8191.	2.8	15
74	Enhancing the Properties of Conductive Polymer Hydrogels by Freezeâ€“Thaw Cycles for High-Performance Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 20142-20149.	4.0	106
75	Magnetically directed soft actuators driven by moisture. Journal of Materials Chemistry C, 2017, 5, 4129-4133.	2.7	16
76	Nobleâ€Metalâ€Free Janusâ€like Structures by Cation Exchange for Zâ€Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. Angewandte Chemie - International Edition, 2017, 56, 4206-4210.	7.2	166
77	Nobleâ€Metalâ€Free Janusâ€like Structures by Cation Exchange for Zâ€Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. Angewandte Chemie, 2017, 129, 4270-4274.	1.6	62
78	Cobalt-based nanosheet arrays as efficient electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2017, 5, 17640-17646.	5.2	40
79	Strong and Robust Polyanilineâ€Based Supramolecular Hydrogels for Flexible Supercapacitors. Angewandte Chemie - International Edition, 2016, 55, 9196-9201.	7.2	312
80	Oxide Defect Engineering Enables to Couple Solar Energy into Oxygen Activation. Journal of the American Chemical Society, 2016, 138, 8928-8935.	6.6	840
81	Strong and Robust Polyanilineâ€Based Supramolecular Hydrogels for Flexible Supercapacitors. Angewandte Chemie, 2016, 128, 9342-9347.	1.6	107
82	Efficient Mini-Transporter for Cytosolic Protein Delivery. ACS Applied Materials & Interfaces, 2016, 8, 25725-25732.	4.0	13
83	Maneuvering charge polarization and transport in 2H-MoS2 for enhanced electrocatalytic hydrogen evolution reaction. Nano Research, 2016, 9, 2662-2671.	5.8	26
84	Long-circulating siRNA nanoparticles for validating Prohibitin1-targeted non-small cell lung cancer treatment. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7779-7784.	3.3	170
85	Layer-by-layer Î²-Ni(OH)2/graphene nanohybrids for ultraflexible all-solid-state thin-film supercapacitors with high electrochemical performance. Nano Energy, 2013, 2, 65-74.	8.2	271
86	Ambient rutile VO2(R) hollow hierarchitectures with rich grain boundaries from new-state nsutite-type VO2, displaying enhanced hydrogen adsorption behavior. Physical Chemistry Chemical Physics, 2012, 14, 4810.	1.3	65
87	Self-doped SrTiO3â¯Î´ photocatalyst with enhanced activity for artificial photosynthesis under visible light. Energy and Environmental Science, 2011, 4, 4211.	15.6	244
88	Tuning the Electronic Structure of Layered Co-based Serpentine Nanosheets for Efficient Oxygen Evolution Reaction. Journal Physics D: Applied Physics, 0, , .	1.3	2