

Ning Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

2,267
citations

24
h-index

45
g-index

90
ext. papers

3,148
ext. citations

7.7
avg, IF

5.11
L-index

#	Paper	IF	Citations
83	Photocatalytic Overall Water Splitting 2022 , 521-539		
82	Accelerating CO Electroreduction to Multicarbon Products via Synergistic Electric-Thermal Field on Copper Nanoneedles.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	25
81	A Ternary Molten Salt Approach for Direct Regeneration of LiNi Co Mn O Cathode.. <i>Small</i> , 2022 , e2106719	19	3
80	Machine Learning in Screening High Performance Electrocatalysts for CO Reduction.. <i>Small Methods</i> , 2021 , 5, e2100987	12.8	8
79	One-Pot Synthesis of Nitrogen-Doped TiO with Supported Copper Nanocrystalline for Photocatalytic Environment Purification under Household White LED Lamp. <i>Molecules</i> , 2021 , 26,	4.8	1
78	Double Confined MoO/Sn/NC@NC Nanotubes: Solid-Liquid Synthesis, Conformal Transformation, and Excellent Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19836-19845	9.5	5
77	Insights into the critical dual-effect of acid treatment on ZnxCd1-xS for enhanced photocatalytic production of syngas under visible light. <i>Applied Catalysis B: Environmental</i> , 2021 , 288, 119976	21.8	15
76	β-cyclodextrin as Lithium-ion Diffusion Channel with Enhanced Kinetics for Stable Silicon Anode. <i>Energy and Environmental Materials</i> , 2021 , 4, 72-80	13	8
75	Tuning Interfacial Active Sites over Porous MoN-Supported Cobalt Sulfides for Efficient Hydrogen Evolution Reactions in Acid and Alkaline Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41573-41583	9.5	5
74	Atomically Dispersed s-Block Magnesium Sites for Electroreduction of CO ₂ to CO. <i>Angewandte Chemie</i> , 2021 , 133, 25445	3.6	4
73	Atomically Dispersed s-Block Magnesium Sites for Electroreduction of CO to CO. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25241-25245	16.4	21
72	Lithium doped nickel oxide nanocrystals with a tuned electronic structure for oxygen evolution reaction. <i>Chemical Communications</i> , 2021 , 57, 6070-6073	5.8	5
71	Photo-irradiation tunes highly active sites over β-Ni(OH) nanosheets for the electrocatalytic oxygen evolution reaction. <i>Chemical Communications</i> , 2021 , 57, 9060-9063	5.8	2
70	Montmorillonite: A structural evolution from bulk through unilaminar nanolayers to nanotubes. <i>Applied Clay Science</i> , 2020 , 194, 105695	5.2	13
69	Enhancing CO ₂ reduction by suppressing hydrogen evolution with polytetrafluoroethylene protected copper nanoneedles. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15936-15941	13	36
68	Stabilizing CuGaS by crystalline CdS through an interfacial Z-scheme charge transfer for enhanced photocatalytic CO reduction under visible light. <i>Nanoscale</i> , 2020 , 12, 8693-8700	7.7	24
67	Metal-Organic Framework Hexagonal Nanoplates: Bottom-up Synthesis, Topotactic Transformation, and Efficient Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7317-7321	16.4	75

66	Multi-shelled cobalt-nickel oxide/phosphide hollow spheres for an efficient oxygen evolution reaction. <i>Dalton Transactions</i> , 2020 , 49, 10918-10927	4.3	6
65	Synthesis of Co(II)-Fe(III) Hydroxide Nanocones with Mixed Octahedral/Tetrahedral Coordination toward Efficient Electrocatalysis. <i>Chemistry of Materials</i> , 2020 , 32, 4232-4240	9.6	17
64	3D Network Binder via In Situ Cross-Linking on Silicon Anodes with Improved Stability for Lithium-Ion Batteries. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 1900414	2.6	19
63	Layered Metal Hydroxides and Their Derivatives: Controllable Synthesis, Chemical Exfoliation, and Electrocatalytic Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 1902535	21.8	48
62	Electrocatalytic oxygen and hydrogen evolution reactions at Ni ₃ B/Fe ₂ O ₃ nanotube arrays under visible light radiation. <i>Catalysis Science and Technology</i> , 2020 , 10, 8305-8313	5.5	1
61	Ultrathin Nanosheet-Assembled Co-Fe Hydroxide Nanotubes: Sacrificial Template Synthesis, Topotactic Transformation, and Their Application as Electrocatalysts for Efficient Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46578-46587	9.5	5
60	A Cyclodextrin Modified Graphitic Carbon Nitride with Au Co-Catalyst for Efficient Photocatalytic Hydrogen Peroxide Production. <i>Nanomaterials</i> , 2020 , 10,	5.4	7
59	Iron phthalocyanine with coordination induced electronic localization to boost oxygen reduction reaction. <i>Nature Communications</i> , 2020 , 11, 4173	17.4	133
58	Serpentine Co _x Ni _{3-x} Ge ₂ O ₅ (OH) ₄ nanosheets with tuned electronic energy bands for highly efficient oxygen evolution reaction in alkaline and neutral electrolytes. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118184	21.8	17
57	Synthesis of silicon nanosheets from kaolinite as a high-performance anode material for lithium-ion batteries. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 137, 109227	3.9	19
56	Activating Hematite Nanoplates via Partial Reduction for Electrocatalytic Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11841-11849	8.3	18
55	Heterostructured NiFe oxide/phosphide nanoflakes for efficient water oxidation. <i>Dalton Transactions</i> , 2019 , 48, 8442-8448	4.3	5
54	Activity enhancement of layered cobalt hydroxide nanocones by tuning interlayer spacing and phosphidation for electrocatalytic water oxidation in neutral solutions. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1744-1752	6.8	6
53	Ag _{1.69} Sb _{2.27} O _{6.25} coupled carbon nitride photocatalyst with high redox potential for efficient multifunctional environmental applications. <i>Applied Surface Science</i> , 2019 , 487, 82-90	6.7	8
52	Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019 , 29, 1904020	15.6	70
51	Cobalt iron phosphide nanoparticles embedded within a carbon matrix as highly efficient electrocatalysts for the oxygen evolution reaction. <i>Chemical Communications</i> , 2019 , 55, 9212-9215	5.8	17
50	Alternate Restacking of 2 D CoNi Hydroxide and Graphene Oxide Nanosheets for Energetic Oxygen Evolution. <i>ChemSusChem</i> , 2019 , 12, 5274	8.3	5
49	Hybrid Nanostructures of Bimetallic NiCo Nitride/N-Doped Reduced Graphene Oxide as Efficient Bifunctional Electrocatalysts for Rechargeable Zn/Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19612-19620	8.3	24

48	Co(OH) Nanosheets Supported on Laser Ablated Cu Foam: An Efficient Oxygen Evolution Reaction Electrocatalyst. <i>Frontiers in Chemistry</i> , 2019 , 7, 900	5	8
47	Post-synthesis isomorphous substitution of layered Co-Mn hydroxide nanocones with graphene oxide as high-performance supercapacitor electrodes. <i>Nanoscale</i> , 2019 , 11, 6165-6173	7.7	31
46	Engineering of carbon and other protective coating layers for stabilizing silicon anode materials 2019 , 1, 219-245		43
45	Self-Supported Fe-Doped CoP Nanowire Arrays Grown on Carbon Cloth with Enhanced Properties in Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 406-412	6.1	20
44	Advanced Electrocatalytic Performance of Ni-Based Materials for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 341-349	8.3	27
43	Hierarchical CoO/MnCoO nanorod arrays on flexible carbon cloth as high-performance anode materials for lithium-ion batteries. <i>Dalton Transactions</i> , 2018 , 47, 3775-3784	4.3	32
42	Controllable Fabrication and Tuned Electrochemical Performance of Potassium Co-Ni Phosphate Microplates as Electrodes in Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3506-3514	9.5	35
41	Ni ₂ P ₂ O ₇ Nanoarrays with Decorated C ₃ N ₄ Nanosheets as Efficient Electrode for Supercapacitors. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2016-2023	6.1	26
40	Advanced Supercapacitors Based on Ni(OH) ₂ Nanoplates/Graphene Composite Electrodes with High Energy and Power Density. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1496-1505	6.1	18
39	Rare-earth-doped yttrium oxide nanoplatelets and nanotubes: controllable fabrication, topotactic transformation and upconversion luminescence. <i>CrystEngComm</i> , 2018 , 20, 5025-5032	3.3	6
38	Binder-Free Co ₄ N Nanoarray on Carbon Cloth as Flexible High-Performance Anode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4432-4439	6.1	11
37	Serpentine Ni Ge O (OH) Nanosheets with Tailored Layers and Size for Efficient Oxygen Evolution Reactions. <i>Small</i> , 2018 , 14, e1803015	11	15
36	Selective fabrication of porous iron oxides hollow spheres and nanofibers by electrospinning for photocatalytic water purification. <i>Solid State Sciences</i> , 2018 , 82, 24-28	3.4	9
35	Tuning nanosheet Fe ₂ O ₃ photoanodes with C ₃ N ₄ and p-type CoO _x decoration for efficient and stable water splitting. <i>Catalysis Science and Technology</i> , 2018 , 8, 3144-3150	5.5	11
34	Three-dimensionally interconnected Si frameworks derived from natural halloysite clay: a high-capacity anode material for lithium-ion batteries. <i>Dalton Transactions</i> , 2018 , 47, 7522-7527	4.3	21
33	Terbium-Doped Layered Yttrium Hydroxide Nanocone: Controlled Synthesis, Structure Variations, Phase Conversion to Oxide/Oxysulfate Nanocone and Their Luminescence Properties. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800075	3.1	2
32	Refining Defect States in WO ₃ by Mo Doping: A Strategy for Tuning N Activation towards Solar-Driven Nitrogen Fixation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9434-9443	16.4	462
31	Controllable Fabrication of Rare-Earth-Doped Gd ₂ O ₂ SO ₄ @SiO ₂ Double-Shell Hollow Spheres for Efficient Upconversion Luminescence and Magnetic Resonance Imaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 10463-10471	8.3	10

30	Hexagonal Zn _{1-x} Cd _x S (0.2 ≤ x ≤ 1) solid solution photocatalysts for H ₂ generation from water. <i>Catalysis Science and Technology</i> , 2017 , 7, 982-987	5.5	38
29	Hierarchical yolk-shell layered potassium niobate for tuned pH-dependent photocatalytic H ₂ evolution. <i>Catalysis Science and Technology</i> , 2017 , 7, 1000-1005	5.5	24
28	Large-Scale Preparation, Chemical Exfoliation, and Structural Modification of Layered Zinc Hydroxide Nanocones: Transformation into Zinc Oxide Nanocones for Enhanced Photocatalytic Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5869-5879	8.3	13
27	Morphological Evolution and Magnetic Property of Rare-Earth-Doped Hematite Nanoparticles: Promising Contrast Agents for T1-Weighted Magnetic Resonance Imaging. <i>Advanced Functional Materials</i> , 2017 , 27, 1606821	15.6	24
26	Layered rare-earth hydroxide nanocones with facile host composition modification and anion-exchange feature: topotactic transformation into oxide nanocones for upconversion. <i>Nanoscale</i> , 2017 , 9, 8185-8191	7.7	10
25	Fuel combustion synthesis and upconversion properties of Yb ³⁺ and Er ³⁺ dual-doped ZrO ₂ nanocrystals. <i>Journal of Central South University</i> , 2017 , 24, 2209-2214	2.1	1
24	Controllable synthesis of layered Co/Ni hydroxide hierarchical structures for high-performance hybrid supercapacitors. <i>Journal of Physics and Chemistry of Solids</i> , 2016 , 88, 8-13	3.9	17
23	Controllable Fabrication of Amorphous Co-Ni Pyrophosphates for Tuning Electrochemical Performance in Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23114-21	9.5	82
22	Controllable fabrication of urchin-like CoO hollow spheres for high-performance supercapacitors and lithium-ion batteries. <i>Dalton Transactions</i> , 2016 , 45, 15155-15161	4.3	37
21	Layered Co/Mn hydroxide nanoflakes grown on carbon cloth as binder-free flexible electrodes for supercapacitors. <i>Journal of Materials Science</i> , 2016 , 51, 3784-3792	4.3	19
20	Acetate-induced controlled-synthesis of hematite polyhedra enclosed by high-activity facets for enhanced photocatalytic performance. <i>RSC Advances</i> , 2016 , 6, 66879-66883	3.7	11
19	Monoclinic Tungsten Oxide with {100} Facet Orientation and Tuned Electronic Band Structure for Enhanced Photocatalytic Oxidations. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10367-74	9.5	86
18	Polypyrrole-Modified NH ₄ NiPO ₄ ·H ₂ O Nanoplate Arrays on Ni Foam for Efficient Electrode in Electrochemical Capacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5578-5584	8.3	33
17	Effect of Solvent Activity on Solute Association: The Formation of Aqueous Nickel(II) Chloride Complexes Studied by UV-Vis and EXAFS Spectroscopy. <i>Journal of Solution Chemistry</i> , 2015 , 44, 1320-1338	1.8	8
16	Controllable fabrication and magnetic properties of double-shell cobalt oxides hollow particles. <i>Scientific Reports</i> , 2015 , 5, 8737	4.9	23
15	Biomolecule-assisted Hydrothermal Synthesis and Electrochemical Properties of Copper Sulfide Hollow Spheres. <i>Chemistry Letters</i> , 2015 , 44, 1321-1323	1.7	5
14	Thermodynamic modeling of poorly complexing metals in concentrated electrolyte solutions: an X-ray absorption and UV-Vis spectroscopic study of Ni(II) in the NiCl ₂ -MgCl ₂ -H ₂ O system. <i>PLoS ONE</i> , 2015 , 10, e0119805	3.7	11
13	Controllable Fabrication and Optical Properties of Uniform Gadolinium Oxysulfate Hollow Spheres. <i>Scientific Reports</i> , 2015 , 5, 17934	4.9	21

12	Trace Amounts of Aqueous Copper(II) Chloride Complexes in Hypersaline Solutions: Spectrophotometric and Thermodynamic Studies. <i>Journal of Solution Chemistry</i> , 2014 , 43, 326-339	1.8	20
11	Fabrication of nickel-foam-supported layered zinc-cobalt hydroxide nanoflakes for high electrochemical performance in supercapacitors. <i>Chemical Communications</i> , 2014 , 50, 11188-91	5.8	31
10	General synthetic strategy for high-yield and uniform rare-earth oxysulfate (RE ₂ O ₂ SO ₄ , RE = La, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Y, Ho, and Yb) hollow spheres. <i>RSC Advances</i> , 2012 , 2, 9362	3.7	26
9	Synthesis of hierarchical Ag ₂ ZnGeO ₄ hollow spheres for enhanced photocatalytic property. <i>Chemical Communications</i> , 2012 , 48, 9894-6	5.8	30
8	Mesoporous zinc germanium oxynitride for CO ₂ photoreduction under visible light. <i>Chemical Communications</i> , 2012 , 48, 1269-71	5.8	94
7	Photoassisted fabrication of zinc indium oxide/oxysulfide composite for enhanced photocatalytic H ₂ evolution under visible-light irradiation. <i>Science and Technology of Advanced Materials</i> , 2012 , 13, 055001	7.1	5
6	Ion-exchange synthesis of a micro/mesoporous Zn ₂ GeO ₄ photocatalyst at room temperature for photoreduction of CO ₂ . <i>Chemical Communications</i> , 2011 , 47, 2041-3	5.8	111
5	Large-scale Hydrothermal Synthesis and Characterization of Size-controlled Lanthanum Hydroxide Nanorods. <i>Chinese Journal of Chemistry</i> , 2009 , 27, 920-924	4.9	2
4	Anchoring Active Sites by Pt ₂ FeNi Alloy Nanoparticles on NiFe Layered Double Hydroxides for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Energy and Environmental Materials</i> ,	13	1
3	Anticorrosive Copper Current Collector Passivated by Self-Assembled Porous Membrane for Highly Stable Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2104930	15.6	8
2	Quasi Solid-State Electrolytes of Li ₂ Sn ₂ (bdc) ₃ (H ₂ O) _x Metal-Organic Frameworks for Lithium Metal Battery. <i>Electroanalysis</i> ,	3	0
1	Cross-Linked Polymer Binder via Phthalic Acid for Stabilizing SiO _x Anodes. <i>Macromolecular Chemistry and Physics</i> , 2200068	2.6	2