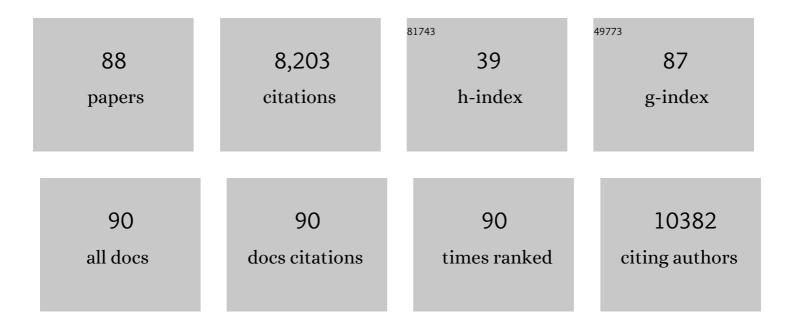
## Ning Zhang

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Oxide Defect Engineering Enables to Couple Solar Energy into Oxygen Activation. Journal of the<br>American Chemical Society, 2016, 138, 8928-8935.  | 6.6  | 840       |
| 2  | Optoelectronic resistive random access memory for neuromorphic vision sensors. Nature<br>Nanotechnology, 2019, 14, 776-782.   | 15.6 | 783       |
| 3  | Defect engineering in photocatalytic materials. Nano Energy, 2018, 53, 296-336.   | 8.2  | 732       |
| 4  | Refining Defect States in W <sub>18</sub> O <sub>49</sub> by Mo Doping: A Strategy for Tuning<br>N <sub>2</sub> Activation towards Solar-Driven Nitrogen Fixation. Journal of the American Chemical<br>Society, 2018, 140, 9434-9443. | 6.6  | 722       |
| 5  | Lattice oxygen activation enabled by high-valence metal sites for enhanced water oxidation. Nature Communications, 2020, 11, 4066.  | 5.8  | 337       |
| 6  | Strong and Robust Polyanilineâ€Based Supramolecular Hydrogels for Flexible Supercapacitors.<br>Angewandte Chemie - International Edition, 2016, 55, 9196-9201.  | 7.2  | 312       |
| 7  | CeO <sub>2</sub> -Induced Interfacial Co <sup>2+</sup> Octahedral Sites and Oxygen Vacancies for Water Oxidation. ACS Catalysis, 2019, 9, 6484-6490.  | 5.5  | 278       |
| 8  | Layer-by-layer β-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       |
| 9  | Self-doped SrTiO3â <sup>~</sup> δ photocatalyst with enhanced activity for artificial photosynthesis under visible<br>light. Energy and Environmental Science, 2011, 4, 4211.   | 15.6 | 244       |
| 10 | Metal–Organic Framework Coating Enhances the Performance of Cu <sub>2</sub> 0 in<br>Photoelectrochemical CO <sub>2</sub> Reduction. Journal of the American Chemical Society, 2019, 141,<br>10924-10929.                              | 6.6  | 219       |
| 11 | Bioinspired ultra-stretchable and anti-freezing conductive hydrogel fibers with ordered and reversible polymer chain alignment. Nature Communications, 2018, 9, 3579.   | 5.8  | 201       |
| 12 | Lattice oxygen redox chemistry in solid-state electrocatalysts for water oxidation. Energy and Environmental Science, 2021, 14, 4647-4671.  | 15.6 | 190       |
| 13 | Recent progress on advanced design for photoelectrochemical reduction of CO2 to fuels. Science<br>China Materials, 2018, 61, 771-805.   | 3.5  | 172       |
| 14 | Long-circulating siRNA nanoparticles for validating Prohibitin1-targeted non-small cell lung cancer<br>treatment. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112,<br>7779-7784.           | 3.3  | 170       |
| 15 | Nobleâ€Metalâ€Free Janusâ€ike Structures by Cation Exchange for Zâ€6cheme Photocatalytic Water Splitting<br>under Broadband Light Irradiation. Angewandte Chemie - International Edition, 2017, 56, 4206-4210.                        | 7.2  | 166       |
| 16 | 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       |
| 17 | Metal–Organic Framework Hexagonal Nanoplates: Bottom-up Synthesis, Topotactic Transformation,<br>and Efficient Oxygen Evolution Reaction. Journal of the American Chemical Society, 2020, 142, 7317-7321.                             | 6.6  | 140       |
| 18 | Strong and Robust Polyanilineâ€Based Supramolecular Hydrogels for Flexible Supercapacitors.<br>Angewandte Chemie, 2016, 128, 9342-9347.   | 1.6  | 107       |

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|----|---|-----|-----------|
| 19 | Enhancing the Properties of Conductive Polymer Hydrogels by Freeze–Thaw Cycles for<br>High-Performance Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 20142-20149.                              | 4.0 | 106       |
| 20 | A Ternary Dumbbell Structure with Spatially Separated Catalytic Sites for Photocatalytic Overall<br>Water Splitting. Advanced Science, 2020, 7, 1903568.  | 5.6 | 104       |
| 21 | Engineering of carbon and other protective coating layers for stabilizing silicon anode materials. , 2019, 1, 219-245.  |     | 94        |
| 22 | Nano Highâ€Entropy Materials: Synthesis Strategies and Catalytic Applications. Small Structures, 2020, 1, 2000033.  | 6.9 | 80        |
| 23 | Governing Interlayer Strain in Bismuth Nanocrystals for Efficient Ammonia Electrosynthesis from<br>Nitrate Reduction. ACS Nano, 2022, 16, 4795-4804.  | 7.3 | 76        |
| 24 | Ambient rutile VO2(R) hollow hierarchitectures with rich grain boundaries from new-state<br>nsutite-type VO2, displaying enhanced hydrogen adsorption behavior. Physical Chemistry Chemical<br>Physics, 2012, 14, 4810. | 1.3 | 65        |
| 25 | 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        |
| 26 | Bioinspired Design of Strong, Tough, and Highly Conductive Polyol-Polypyrrole Composites for Flexible Electronics. ACS Applied Materials & amp; Interfaces, 2017, 9, 5692-5698.   | 4.0 | 64        |
| 27 | Controllable Fabrication and Tuned Electrochemical Performance of Potassium Co–Ni Phosphate<br>Microplates as Electrodes in Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10,<br>3506-3514.                | 4.0 | 63        |
| 28 | Defective Tungsten Oxide Hydrate Nanosheets for Boosting Aerobic Coupling of Amines: Synergistic<br>Catalysis by Oxygen Vacancies and BrÃ,nsted Acid Sites. Small, 2017, 13, 1701354.                                   | 5.2 | 62        |
| 29 | Nobleâ€Metalâ€Free Janusâ€like Structures by Cation Exchange for Zâ€6cheme Photocatalytic Water Splitting<br>under Broadband Light Irradiation. Angewandte Chemie, 2017, 129, 4270-4274.                                | 1.6 | 62        |
| 30 | Computational Design of Transition Metal Single-Atom Electrocatalysts on PtS <sub>2</sub> for<br>Efficient Nitrogen Reduction. ACS Applied Materials & Interfaces, 2020, 12, 20448-20455.                               | 4.0 | 58        |
| 31 | Metal Substitution Steering Electron Correlations in Pyrochlore Ruthenates for Efficient Acidic Water Oxidation. ACS Nano, 2021, 15, 8537-8548.   | 7.3 | 54        |
| 32 | Ni <sub>2</sub> P <sub>2</sub> O <sub>7</sub> Nanoarrays with Decorated<br>C <sub>3</sub> N <sub>4</sub> Nanosheets as Efficient Electrode for Supercapacitors. ACS Applied<br>Energy Materials, 2018, 1, 2016-2023.    | 2.5 | 50        |
| 33 | Hexagonal Zn <sub>1â^'x</sub> Cd <sub>x</sub> S (0.2 ≤ ≤) solid solution photocatalysts for<br>H <sub>2</sub> generation from water. Catalysis Science and Technology, 2017, 7, 982-987.                                | 2.1 | 47        |
| 34 | Programmable Polymer Actuators Perform Continuous Helical Motions Driven by Moisture. ACS<br>Applied Materials & Interfaces, 2019, 11, 20473-20481.   | 4.0 | 45        |
| 35 | PdPt Alloy Nanocatalysts Supported on TiO <sub>2</sub> : Maneuvering Metal–Hydrogen Interactions<br>for Lightâ€Driven and Waterâ€Donating Selective Alkyne Semihydrogenation. Small, 2017, 13, 1604173.                 | 5.2 | 44        |
| 36 | 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        |

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|----|--|------|-----------|
| 37 | Advanced Electrocatalytic Performance of Ni-Based Materials for Oxygen Evolution Reaction. ACS<br>Sustainable Chemistry and Engineering, 2019, 7, 341-349.   | 3.2  | 43        |
| 38 | Hybrid Nanostructures of Bimetallic NiCo Nitride/N-Doped Reduced Graphene Oxide as Efficient<br>Bifunctional Electrocatalysts for Rechargeable Zn–Air Batteries. ACS Sustainable Chemistry and<br>Engineering, 2019, 7, 19612-19620.   | 3.2  | 41        |
| 39 | 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        |
| 40 | Cobalt-based nanosheet arrays as efficient electrocatalysts for overall water splitting. Journal of<br>Materials Chemistry A, 2017, 5, 17640-17646.  | 5.2  | 40        |
| 41 | Post-synthesis isomorphous substitution of layered Co–Mn hydroxide nanocones with graphene<br>oxide as high-performance supercapacitor electrodes. Nanoscale, 2019, 11, 6165-6173.   | 2.8  | 39        |
| 42 | Hierarchical CoO/MnCo <sub>2</sub> O <sub>4.5</sub> nanorod arrays on flexible carbon cloth as high-performance anode materials for lithium-ion batteries. Dalton Transactions, 2018, 47, 3775-3784.                                   | 1.6  | 38        |
| 43 | β yclodextrin as Lithiumâ€ion Diffusion Channel with Enhanced Kinetics for Stable Silicon Anode.<br>Energy and Environmental Materials, 2021, 4, 72-80.  | 7.3  | 36        |
| 44 | Activating Hematite Nanoplates via Partial Reduction for Electrocatalytic Oxygen Reduction Reaction.<br>ACS Sustainable Chemistry and Engineering, 2019, 7, 11841-11849.   | 3.2  | 35        |
| 45 | Spatially Confined Formation of Single Atoms in Highly Porous Carbon Nitride Nanoreactors. ACS<br>Nano, 2021, 15, 7790-7798.   | 7.3  | 33        |
| 46 | Tuning Interfacial Active Sites over Porous Mo <sub>2</sub> N-Supported Cobalt Sulfides for Efficient<br>Hydrogen Evolution Reactions in Acid and Alkaline Electrolytes. ACS Applied Materials &<br>Interfaces, 2021, 13, 41573-41583. | 4.0  | 30        |
| 47 | 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        |
| 48 | Molecular-Scale Manipulation of Layer Sequence in Heteroassembled Nanosheet Films toward Oxygen<br>Evolution Electrocatalysts. ACS Nano, 2022, 16, 4028-4040.  | 7.3  | 29        |
| 49 | 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        |
| 50 | 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        |
| 51 | Hierarchical yolk–shell layered potassium niobate for tuned pH-dependent photocatalytic<br>H <sub>2</sub> evolution. Catalysis Science and Technology, 2017, 7, 1000-1005.   | 2.1  | 27        |
| 52 | Maneuvering charge polarization and transport in 2H-MoS2 for enhanced electrocatalytic hydrogen evolution reaction. Nano Research, 2016, 9, 2662-2671.   | 5.8  | 26        |
| 53 | Advanced Supercapacitors Based on α-Ni(OH) <sub>2</sub> Nanoplates/Graphene Composite Electrodes with High Energy and Power Density. ACS Applied Energy Materials, 2018, 1, 1496-1505.   | 2.5  | 26        |
| 54 | 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        |

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|----|---|-----|-----------|
| 55 | Serpentine Ni <sub>3</sub> Ge <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> Nanosheets with Tailored<br>Layers and Size for Efficient Oxygen Evolution Reactions. Small, 2018, 14, e1803015.  | 5.2 | 24        |
| 56 | 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        |
| 57 | Lithium doped nickel oxide nanocrystals with a tuned electronic structure for oxygen evolution reaction. Chemical Communications, 2021, 57, 6070-6073.  | 2.2 | 22        |
| 58 | Robust Photoelectrochemical Oxygen Evolution with N, Fe–CoS <sub>2</sub> Nanorod Arrays. ACS<br>Applied Materials & Interfaces, 2019, 11, 44214-44222.  | 4.0 | 21        |
| 59 | Metal-free tellurene cocatalyst with tunable bandgap for enhanced photocatalytic hydrogen production. Materials Today Energy, 2021, 21, 100720.   | 2.5 | 18        |
| 60 | Topological phase change transistors based on tellurium Weyl semiconductor. Science Advances, 2022, 8, .  | 4.7 | 17        |
| 61 | Magnetically directed soft actuators driven by moisture. Journal of Materials Chemistry C, 2017, 5, 4129-4133.  | 2.7 | 16        |
| 62 | Layered rare-earth hydroxide nanocones with facile host composition modification and<br>anion-exchange feature: topotactic transformation into oxide nanocones for upconversion.<br>Nanoscale, 2017, 9, 8185-8191.  | 2.8 | 15        |
| 63 | Tuning nanosheet Fe <sub>2</sub> O <sub>3</sub> photoanodes with C <sub>3</sub> N <sub>4</sub> and p-type CoO <sub>x</sub> decoration for efficient and stable water splitting. Catalysis Science and Technology, 2018, 8, 3144-3150.   | 2.1 | 15        |
| 64 | Double Confined MoO <sub>2</sub> /Sn/NC@NC Nanotubes: Solid–Liquid Synthesis, Conformal<br>Transformation, and Excellent Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2021, 13,<br>19836-19845.   | 4.0 | 15        |
| 65 | Controllable Fabrication of Rare-Earth-Doped<br>Gd <sub>2</sub> O <sub>2</sub> SO <sub>4</sub> @SiO <sub>2</sub> Double-Shell Hollow Spheres for<br>Efficient Upconversion Luminescence and Magnetic Resonance Imaging. ACS Sustainable Chemistry and<br>Engineering, 2018, 6, 10463-10471. | 3.2 | 14        |
| 66 | 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        |
| 67 | Efficient Mini-Transporter for Cytosolic Protein Delivery. ACS Applied Materials & Interfaces, 2016,<br>8, 25725-25732.   | 4.0 | 13        |
| 68 | Binder-Free Co <sub>4</sub> N Nanoarray on Carbon Cloth as Flexible High-Performance Anode for<br>Lithium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 4432-4439.  | 2.5 | 13        |
| 69 | Fieldâ€Effect Chiral Anomaly Devices with Dirac Semimetal. Advanced Functional Materials, 2021, 31, 2104192.  | 7.8 | 13        |
| 70 | Ultrathin Nanosheet-Assembled Co–Fe Hydroxide Nanotubes: Sacrificial Template Synthesis,<br>Topotactic Transformation, and Their Application as Electrocatalysts for Efficient Oxygen Evolution<br>Reaction. ACS Applied Materials & Interfaces, 2020, 12, 46578-46587.                     | 4.0 | 12        |
| 71 | Phosphate-induced interfacial electronic engineering in VPO4-Ni2P heterostructure for improved electrochemical water oxidation. Chinese Chemical Letters, 2022, 33, 452-456.  | 4.8 | 12        |
| 72 | Photo-irradiation tunes highly active sites over β-Ni(OH) <sub>2</sub> nanosheets for the electrocatalytic oxygen evolution reaction. Chemical Communications, 2021, 57, 9060-9063.   | 2.2 | 12        |

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|----|---|-----|-----------|
| 73 | Synergizing Inter and Intraband Transitions in Defective Tungsten Oxide for Efficient Photocatalytic<br>Alcohol Dehydration to Alkenes. Jacs Au, 2022, 2, 1160-1168.  | 3.6 | 12        |
| 74 | Improving C–N–FeO <sub><i>x</i></sub> Oxygen Evolution Electrocatalysts through<br>Hydroxyl-Modulated Local Coordination Environment. ACS Catalysis, 2022, 12, 7443-7452.   | 5.5 | 12        |
| 75 | 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        |
| 76 | 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        |
| 77 | Boosting electrochemical hydrogen evolution by coupling anodically oxidative dehydrogenation of benzylamine to benzonitrile. Chinese Chemical Letters, 2023, 34, 107319.  | 4.8 | 10        |
| 78 | Rare-earth-doped yttrium oxide nanoplatelets and nanotubes: controllable fabrication, topotactic transformation and upconversion luminescence. CrystEngComm, 2018, 20, 5025-5032.                                       | 1.3 | 7         |
| 79 | Heterostructured NiFe oxide/phosphide nanoflakes for efficient water oxidation. Dalton<br>Transactions, 2019, 48, 8442-8448.  | 1.6 | 6         |
| 80 | Multi-shelled cobalt–nickel oxide/phosphide hollow spheres for an efficient oxygen evolution reaction. Dalton Transactions, 2020, 49, 10918-10927.  | 1.6 | 6         |
| 81 | Self-reconstruction mediates isolated Pt tailored nanoframes for highly efficient catalysis. Journal of Materials Chemistry A, 2021, 9, 22501-22508.  | 5.2 | 5         |
| 82 | 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         |
| 83 | Alloy-buffer-controlled van der Waals epitaxial growth of aligned tellurene. Nano Research, 2022, 15, 5712-5718.  | 5.8 | 4         |
| 84 | Serpentine Ni <sub>3</sub> Ge <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> Nanosheets Grow on<br>Porous Mo <sub>2</sub> N for an Efficient Oxygen Evolution Reaction. Energy & Fuels, 2022, 36,<br>11467-11476.        | 2.5 | 4         |
| 85 | 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         |
| 86 | One-Pot Synthesis of Nitrogen-Doped TiO2 with Supported Copper Nanocrystalline for Photocatalytic<br>Environment Purification under Household White LED Lamp. Molecules, 2021, 26, 6221.                                | 1.7 | 3         |
| 87 | 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         |
| 88 | Tuning the Electronic Structure of Layered Co-based Serpentine Nanosheets for Efficient Oxygen<br>Evolution Reaction. Journal Physics D: Applied Physics, 0, , .  | 1.3 | 2         |