# Nan Zhang

List of Publications by Year
in descending order

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|---|---|---|---|
| 63 papers | 12,993 citations | 87843 38 h-index | 118793 62 g-index |
| 66 all docs | 66 docs citations | 66 times ranked | 15600 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Efficient oxygen reduction electrocatalyst derived from facile Fe,Nâ^surface treatment of carbon black. Journal of Colloid and Interface Science, 2022, 605, 101-109. | 5.0 | 4 |
| 2 | Epitaxial Growth of Ultrathin Highly Crystalline Ptâ€“Ni Nanostructure on a Metal Carbide Template for Efficient Oxygen Reduction Reaction. Advanced Materials, 2022, 34, e2109188. | 11.1 | 30 |
| 3 | Nitrogen-coordinated single-atom catalysts with manganese and cobalt sites for acidic oxygen reduction. Journal of Materials Chemistry A, 2022, 10, 5930-5936. | 5.2 | 21 |
| 4 | High-surface-area titanium nitride nanosheets as zinc anode coating for dendrite-free rechargeable aqueous batteries. Science China Materials, 2022, 65, 1771-1778. | 3.5 | 21 |
| 5 | Highly efficient oxygen evolution catalysis achieved by NiFe oxyhydroxide clusters anchored on carbon black. Journal of Materials Chemistry A, 2022, 10, 10342-10349. | 5.2 | 13 |
| 6 | Nanostructures Composed of Dual Plasmonic Materials Exhibiting High Thermal Stability and SERS Enhancement. Particle and Particle Systems Characterization, 2021, 38, 2000321. | 1.2 | 8 |
| 7 | Waterâ€Induced Formation of Ni<sub>2</sub>Pâ€“Ni<sub>12</sub>P<sub>5</sub> Interfaces with Superior Electrocatalytic Activity toward Hydrogen Evolution Reaction. Small, 2021, 17, e2006770. | 5.2 | 83 |
| 8 | Solidâ€“liquid phase transition induced electrocatalytic switching from hydrogen evolution to highly selective CO2 reduction. Nature Catalysis, 2021, 4, 202-211. | 16.1 | 89 |
| 9 | Subsize Pt-based intermetallic compound enables long-term cyclic mass activity for fuel-cell oxygen reduction. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 86 |
| 10 | Surface microenvironment optimizationâ€•induced robust oxygen reduction for neutral zincâ€air batteries. Natural Sciences, 2021, 1, e20210005. | 1.0 | 6 |
| 11 | Constructing Graphiticâ€Nitrogenâ€Bonded Pentagons in Interlayerâ€Expanded Graphene Matrix toward Carbonâ€Based Electrocatalysts for Acidic Oxygen Reduction Reaction. Advanced Materials, 2021, 33, e2103133. | 11.1 | 47 |
| 12 | Uncovering the Promotion of CeO<sub>2</sub>/CoS<sub>1.97</sub> Heterostructure with Specific Spatial Architectures on Oxygen Evolution Reaction. Advanced Materials, 2021, 33, e2102593. | 11.1 | 118 |
| 13 | Exploring Structure-function Relationship of Two-dimensional Electrocatalysts with Synchrotron Radiation X-ray Absorption Spectrum. Current Chinese Science, 2021, 1, 22-42. | 0.2 | 2 |
| 14 | Interfacial Engineering of Metal/Metal Oxide Heterojunctions toward Oxygen Reduction and Evolution Reactions. ChemPlusChem, 2021, 86, 1586-1601. | 1.3 | 14 |
| 15 | High-purity pyrrole-type FeN<sub>4</sub> sites as a superior oxygen reduction electrocatalyst. Energy and Environmental Science, 2020, 13, 111-118. | 15.6 | 327 |
| 16 | Two-Dimensional Hierarchical Feâ€“Nâ€“C Electrocatalyst for Zn-Air Batteries with Ultrahigh Specific Capacity. , 2020, 2, 35-41. | | 34 |
| 17 | Nanopore Confinement of Electrocatalysts Optimizing Triple Transport for an Ultrahighâ€Powerâ€Density Zincâ€“Air Fuel Cell with Robust Stability. Advanced Materials, 2020, 32, e2003251. | 11.1 | 104 |
| 18 | Stepwise Hollow Prussian Blue Nanoframes/Carbon Nanotubes Composite Film as Ultrahigh Rate Sodium Ion Cathode. Advanced Functional Materials, 2020, 30, 2002624. | 7.8 | 49 |

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|---|---|---|---|
| 19 | High-Density Planar-like Fe2N6 Structure Catalyzes Efficient Oxygen Reduction. Matter, 2020, 3, 509-521. | 5.0 | 184 |
| 20 | (Gold triangular nanoplate core)@(silver shell) nanostructures as highly sensitive and selective plasmonic nanoprobes for hydrogen sulfide detection. Nanoscale, 2020, 12, 20250-20257. | 2.8 | 7 |
| 21 | Surface Nitrogen-Injection Engineering for High Formation Rate of CO<sub>2</sub> Reduction to Formate. Nano Letters, 2020, 20, 6097-6103. | 4.5 | 71 |
| 22 | Surface/interface nanoengineering for rechargeable Znâ€“air batteries. Energy and Environmental Science, 2020, 13, 1132-1153. | 15.6 | 344 |
| 23 | Atomic Insights of Iron Doping in Nickel Hydroxide Nanosheets for Enhanced Oxygen Catalysis to Boost Broad Temperature Workable Zincâ€Air Batteries. ChemCatChem, 2019, 11, 6002-6007. | 1.8 | 17 |
| 24 | Microstructure and surface control of MXene films for water purification. Nature Sustainability, 2019, 2, 856-862. | 11.5 | 273 |
| 25 | Tailoring Electronic Structure of Atomically Dispersed Metalâ€“N<sub>3</sub>S<sub>1</sub> Active Sites for Highly Efficient Oxygen Reduction Catalysis. , 2019, 1, 139-146. | | 34 |
| 26 | Broadband Light Harvesting and Unidirectional Electron Flow for Efficient Electron Accumulation for Hydrogen Generation. Angewandte Chemie, 2019, 131, 10108-10112. | 1.6 | 17 |
| 27 | Broadband Light Harvesting and Unidirectional Electron Flow for Efficient Electron Accumulation for Hydrogen Generation. Angewandte Chemie - International Edition, 2019, 58, 10003-10007. | 7.2 | 86 |
| 28 | Interfacial Defect Engineering for Improved Portable Zincâ€“Air Batteries with a Broad Working Temperature. Angewandte Chemie - International Edition, 2019, 58, 9459-9463. | 7.2 | 139 |
| 29 | Interfacial Defect Engineering for Improved Portable Zincâ€“Air Batteries with a Broad Working Temperature. Angewandte Chemie, 2019, 131, 9559-9563. | 1.6 | 23 |
| 30 | Interfacial engineering of cobalt sulfide/graphene hybrids for highly efficient ammonia electrosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6635-6640. | 3.3 | 242 |
| 31 | Ultrathin Cobalt Oxide Layers as Electrocatalysts for Highâ€Performance Flexible Znâ€“Air Batteries. Advanced Materials, 2019, 31, e1807468. | 11.1 | 227 |
| 32 | Photoredox catalysis over graphene aerogel-supported composites. Journal of Materials Chemistry A, 2018, 6, 4590-4604. | 5.2 | 171 |
| 33 | An adaptive geometry regulation strategy for 3D graphene materials: towards advanced hybrid photocatalysts. Chemical Science, 2018, 9, 8876-8882. | 3.7 | 29 |
| 34 | Dynamic Migration of Surface Fluorine Anions on Cobaltâ€Based Materials to Achieve Enhanced Oxygen Evolution Catalysis. Angewandte Chemie, 2018, 130, 15697-15701. | 1.6 | 11 |
| 35 | Dynamic Migration of Surface Fluorine Anions on Cobaltâ€Based Materials to Achieve Enhanced Oxygen Evolution Catalysis. Angewandte Chemie - International Edition, 2018, 57, 15471-15475. | 7.2 | 178 |
| 36 | Advances in materials engineering of CdS coupled with dual cocatalysts of graphene and MoS<sub>2</sub> for photocatalytic hydrogen evolution. Pure and Applied Chemistry, 2018, 90, 1379-1392. | 0.9 | 4 |

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|---|---|---|---|
| 37 | Stressâ€Transferâ€Induced Inâ€…Situ Formation of Ultrathin Nickel Phosphide Nanosheets for Efficient Hydrogen Evolution. Angewandte Chemie, 2018, 130, 13266-13269. | 1.6 | 26 |
| 38 | Stressâ€Transferâ€Induced Inâ€…Situ Formation of Ultrathin Nickel Phosphide Nanosheets for Efficient Hydrogen Evolution. Angewandte Chemie - International Edition, 2018, 57, 13082-13085. | 7.2 | 97 |
| 39 | Graphene and its derivatives as versatile templates for materials synthesis and functional applications. Nanoscale, 2017, 9, 2398-2416. | 2.8 | 121 |
| 40 | Electrocatalysis for the oxygen evolution reaction: recent development and future perspectives. Chemical Society Reviews, 2017, 46, 337-365. | 18.7 | 4,505 |
| 41 | Aluminumâ€Based Plasmonic Photocatalysis. Particle and Particle Systems Characterization, 2017, 34, 1600357. | 1.2 | 46 |
| 42 | 3D Nitrogenâ€Anionâ€Decorated Nickel Sulfides for Highly Efficient Overall Water Splitting. Advanced Materials, 2017, 29, 1701584. | 11.1 | 478 |
| 43 | Insight into the Role of Size Modulation on Tuning the Band Gap and Photocatalytic Performance of Semiconducting Nitrogen-Doped Graphene. Langmuir, 2017, 33, 3161-3169. | 1.6 | 36 |
| 44 | MoS<sub>2</sub>/Ni<sub>3</sub>S<sub>2</sub> nanorod arrays well-aligned on Ni foam: a 3D hierarchical efficient bifunctional catalytic electrode for overall water splitting. RSC Advances, 2017, 7, 46286-46296. | 1.7 | 60 |
| 45 | Enhanced Catalytic Activity in Nitrogen-Anion Modified Metallic Cobalt Disulfide Porous Nanowire Arrays for Hydrogen Evolution. ACS Catalysis, 2017, 7, 7405-7411. | 5.5 | 152 |
| 46 | Biaxially strained PtPb/Pt core/shell nanoplate boosts oxygen reduction catalysis. Science, 2016, 354, 1410-1414. | 6.0 | 1,262 |
| 47 | Near-field dielectric scattering promotes optical absorption by platinum nanoparticles. Nature Photonics, 2016, 10, 473-482. | 15.6 | 298 |
| 48 | Vertically aligned ZnOâ€“Au@CdS coreâ€“shell nanorod arrays as an all-solid-state vectorial Z-scheme system for photocatalytic application. Journal of Materials Chemistry A, 2016, 4, 18804-18814. | 5.2 | 122 |
| 49 | The endeavour to advance grapheneâ€“semiconductor composite-based photocatalysis. CrystEngComm, 2016, 18, 24-37. | 1.3 | 89 |
| 50 | Two-Dimensional MoS<sub>2</sub> Nanosheet-Coated Bi<sub>2</sub>S<sub>3</sub> Discoids: Synthesis, Formation Mechanism, and Photocatalytic Application. Langmuir, 2015, 31, 4314-4322. | 1.6 | 178 |
| 51 | Hierarchical Hybrids: Hierarchically CdS Decorated 1D ZnO Nanorodsâ€2D Graphene Hybrids: Low Temperature Synthesis and Enhanced Photocatalytic Performance (Adv. Funct. Mater. 2/2015). Advanced Functional Materials, 2015, 25, 170-170. | 7.8 | 8 |
| 52 | Promoting Visibleâ€Light Photocatalysis with Palladium Species as Cocatalyst. ChemCatChem, 2015, 7, 2047-2054. | 1.8 | 24 |
| 53 | One-dimensional CdS nanowiresâ€“CeO<sub>2</sub> nanoparticles composites with boosted photocatalytic activity. New Journal of Chemistry, 2015, 39, 6756-6764. | 1.4 | 43 |
| 54 | Carbon nanotubes introduced in different phases of C/PyC/SiC composites: Effect on microstructure and properties of the materials. Composites Science and Technology, 2015, 115, 28-33. | 3.8 | 24 |

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|---|---|---|---|
| 55 | Precursor chemistry matters in boosting photoredox activity of graphene/semiconductor composites. Nanoscale, 2015, 7, 18062-18070. | 2.8 | 67 |
| 56 | Waltzing with the Versatile Platform of Graphene to Synthesize Composite Photocatalysts. Chemical Reviews, 2015, 115, 10307-10377. | 23.0 | 1,017 |
| 57 | Hierarchically CdS Decorated 1D ZnO Nanorodsâ€2D Graphene Hybrids: Low Temperature Synthesis and Enhanced Photocatalytic Performance. Advanced Functional Materials, 2015, 25, 221-229. | 7.8 | 394 |
| 58 | Enhancing the visible light photocatalytic performance of ternary CdSâ€“(grapheneâ€“Pd) nanocomposites via a facile interfacial mediator and co-catalyst strategy. Journal of Materials Chemistry A, 2014, 2, 19156-19166. | 5.2 | 130 |
| 59 | In situ synthesis of hierarchical In<sub>2</sub>S<sub>3</sub>â€“graphene nanocomposite photocatalyst for selective oxidation. RSC Advances, 2014, 4, 64484-64493. | 1.7 | 28 |
| 60 | Toward the enhanced photoactivity and photostability of ZnO nanospheres via intimate surface coating with reduced graphene oxide. Journal of Materials Chemistry A, 2014, 2, 9380. | 5.2 | 204 |
| 61 | Nanochemistry-derived Bi<sub>2</sub>WO<sub>6</sub>nanostructures: towards production of sustainable chemicals and fuels induced by visible light. Chemical Society Reviews, 2014, 43, 5276-5287. | 18.7 | 368 |
| 62 | Strength and toughness improvement in a C/SiC composite reinforced with slurry-prone SiC whiskers. Ceramics International, 2014, 40, 14099-14104. | 2.3 | 28 |
| 63 | A Unique Silk Mat-Like Structured Pd/CeO<sub>2</sub> as an Efficient Visible Light Photocatalyst for Green Organic Transformation in Water. ACS Sustainable Chemistry and Engineering, 2013, 1, 1258-1266. | 3.2 | 74 |