# Minghui Yang

List of Publications by Year
in descending order

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|---|---|---|---|
| 154 papers | 6,020 citations | 61984 43 h-index | 91884 69 g-index |
| 154 all docs | 154 docs citations | 154 times ranked | 6925 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A review of oxygen reduction mechanisms for metal-free carbon-based electrocatalysts. Npj Computational Materials, 2019, 5, . | 8.7 | 480 |
| 2 | Zirconium nitride catalysts surpass platinum for oxygen reduction. Nature Materials, 2020, 19, 282-286. | 27.5 | 293 |
| 3 | An acetone gas sensor based on nanosized Pt-loaded Fe2O3 nanocubes. Sensors and Actuators B: Chemical, 2019, 290, 59-67. | 7.8 | 172 |
| 4 | Designed formation through a metal organic framework route of ZnO/ZnCo<sub>2</sub>O<sub>4</sub>hollow coreâ€“shell nanocages with enhanced gas sensing properties. Nanoscale, 2016, 8, 16349-16356. | 5.6 | 152 |
| 5 | Conductive Holey MoO<sub>2</sub>â€“Mo<sub>3</sub>N<sub>2</sub> Heterojunctions as Job-Synergistic Cathode Host with Low Surface Area for High-Loading Liâ€“S Batteries. ACS Nano, 2019, 13, 10049-10061. | 14.6 | 150 |
| 6 | Nickelâ€Based Transition Metal Nitride Electrocatalysts for the Oxygen Evolution Reaction. ChemSusChem, 2019, 12, 3941-3954. | 6.8 | 150 |
| 7 | In situ formation of a cellular graphene framework in thermoplastic composites leading to superior thermal conductivity. Journal of Materials Chemistry A, 2017, 5, 6164-6169. | 10.3 | 149 |
| 8 | Sandwichâ€like Catalystâ€“Carbonâ€“Catalyst Trilayer Structure as a Compact 2D Host for Highly Stable Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2020, 59, 12129-12138. | 13.8 | 130 |
| 9 | Oxygen Reduction Reactions of Fe-N-C Catalysts: Current Status and the Way Forward. Electrochemical Energy Reviews, 2019, 2, 252-276. | 25.5 | 119 |
| 10 | Synthesis and application of nano-structured metal nitrides and carbides: A review. Progress in Solid State Chemistry, 2018, 50, 1-15. | 7.2 | 104 |
| 11 | A review on nickel cobalt sulphide and their hybrids: Earth abundant, pH stable electro-catalyst for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 24518-24543. | 7.1 | 100 |
| 12 | Graphene size-dependent modulation of graphene frameworks contributing to the superior thermal conductivity of epoxy composites. Journal of Materials Chemistry A, 2018, 6, 12091-12097. | 10.3 | 88 |
| 13 | Sandwich-like composites of double-layer Co3O4 and reduced graphene oxide and their sensing properties to volatile organic compounds. Journal of Alloys and Compounds, 2019, 793, 24-30. | 5.5 | 87 |
| 14 | ZnO-Reduced Graphene Oxide Composites Sensitized with Graphitic Carbon Nitride Nanosheets for Ethanol Sensing. ACS Applied Nano Materials, 2019, 2, 2734-2742. | 5.0 | 84 |
| 15 | Mesoporous Chromium Nitride as High Performance Catalyst Support for Methanol Electrooxidation. Chemistry of Materials, 2013, 25, 1783-1787. | 6.7 | 82 |
| 16 | Oxygen-Defective Ultrathin BiVO<sub>4</sub> Nanosheets for Enhanced Gas Sensing. ACS Applied Materials & Interfaces, 2019, 11, 23495-23502. | 8.0 | 81 |
| 17 | Recent Advances in Transition Metal Nitrideâ€Based Materials for Photocatalytic Applications. Advanced Functional Materials, 2021, 31, 2100553. | 14.9 | 80 |
| 18 | A Surfaceâ€Oxideâ€Rich Activation Layer (SOAL) on Ni<sub>2</sub>Mo<sub>3</sub>N for a Rapid and Durable Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2020, 59, 18036-18041. | 13.8 | 77 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Hierarchical N-Doped Porous Carbons for Znâ€“Air Batteries and Supercapacitors. Nano-Micro Letters, 2020, 12, 20. | 27.0 | 73 |
| 20 | Mesoporous titanium nitride supported Pt nanoparticles as high performance catalysts for methanol electrooxidation. Physical Chemistry Chemical Physics, 2013, 15, 1088-1092. | 2.8 | 70 |
| 21 | Self-sacrificing templated formation of Co3O4/ZnCo2O4 composite hollow nanostructures for highly sensitive detecting acetone vapor. Sensors and Actuators B: Chemical, 2018, 273, 1202-1210. | 7.8 | 69 |
| 22 | High performance acetone sensor based on ZnO nanorods modified by Au nanoparticles. Journal of Alloys and Compounds, 2019, 797, 246-252. | 5.5 | 67 |
| 23 | Surface Functionalized Sensors for Humidityâ€Independent Gas Detection. Angewandte Chemie - International Edition, 2021, 60, 6561-6566. | 13.8 | 66 |
| 24 | Coordination Polymer-Derived Multishelled Mixed Niâ€“Co Oxide Microspheres for Robust and Selective Detection of Xylene. ACS Applied Materials & Interfaces, 2018, 10, 15314-15321. | 8.0 | 64 |
| 25 | Self-template derived ZnFe2O4 double-shell microspheres for chemresistive gas sensing. Sensors and Actuators B: Chemical, 2018, 265, 625-631. | 7.8 | 64 |
| 26 | Edge-sited Fe-N4 atomic species improve oxygen reduction activity via boosting O2 dissociation. Applied Catalysis B: Environmental, 2020, 265, 118593. | 20.2 | 63 |
| 27 | Mesoporous Ternary Nitrides of Earth-Abundant Metals as Oxygen Evolution Electrocatalyst. Nano-Micro Letters, 2020, 12, 79. | 27.0 | 63 |
| 28 | Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. Progress in Materials Science, 2020, 113, 100665. | 32.8 | 61 |
| 29 | Fe2O3 nanoparticles-decorated MoO3 nanobelts for enhanced chemiresistive gas sensing. Journal of Alloys and Compounds, 2019, 782, 672-678. | 5.5 | 60 |
| 30 | Low Workingâ€Temperature Acetone Vapor Sensor Based on Zinc Nitride and Oxide Hybrid Composites. Small, 2016, 12, 3128-3133. | 10.0 | 57 |
| 31 | Ordered Mesoporous Cobaltâ€“Nickel Nitride Prepared by Nanocasting for Oxygen Evolution Reaction Electrocatalysis. Advanced Materials Interfaces, 2019, 6, 1900960. | 3.7 | 57 |
| 32 | Mesoporous Metal Nitride Materials Prepared from Bulk Oxides. Journal of the American Ceramic Society, 2012, 95, 3084-3089. | 3.8 | 56 |
| 33 | Facile synthesis of tin-doped mayenite electride composite as a non-noble metal durable electrocatalyst for oxygen reduction reaction (ORR). Dalton Transactions, 2018, 47, 13498-13506. | 3.3 | 56 |
| 34 | Cobaltâ€“zinc nitride on nitrogen doped carbon black nanohybrids as a non-noble metal electrocatalyst for oxygen reduction reaction. Nanoscale, 2017, 9, 6259-6263. | 5.6 | 55 |
| 35 | Mechanochemical synthesis of multi-site electrocatalysts as bifunctional zincâ€“air battery electrodes. Journal of Materials Chemistry A, 2019, 7, 19355-19363. | 10.3 | 53 |
| 36 | Mixed ternary transition metal nitrides: A comprehensive review of synthesis, electronic structure, and properties of engineering relevance. Progress in Solid State Chemistry, 2019, 53, 1-26. | 7.2 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Nano-structured ternary niobium titanium nitrides as durable non-carbon supports for oxygen reduction reaction. Chemical Communications, 2013, 49, 10853. | 4.1 | 49 |
| 38 | Mesoporous chromium nitride as a high performance non-carbon support for the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2013, 15, 7041. | 2.8 | 49 |
| 39 | Template-Free Synthesis of Mesoporous Transition Metal Nitride Materials from Ternary Cadmium Transition Metal Oxides. Chemistry of Materials, 2012, 24, 4406-4409. | 6.7 | 47 |
| 40 | Porous coral-like NiCo2O4 nanospheres with promising xylene gas sensing properties. Sensors and Actuators B: Chemical, 2018, 261, 203-209. | 7.8 | 47 |
| 41 | A dendrochronological analysis of maximum summer half-year temperature variations over the past 700 years on the northeastern Tibetan Plateau. Theoretical and Applied Climatology, 2008, 93, 195-206. | 2.8 | 46 |
| 42 | Programmed Synthesis of Sn<sub>3</sub>N<sub>4</sub> Nanoparticles via a Soft Chemistry Approach with Urea: Application for Ethanol Vapor Sensing. Chemistry of Materials, 2017, 29, 969-974. | 6.7 | 45 |
| 43 | Mesoporous vanadium nitride as a high performance catalyst support for formic acid electrooxidation. Chemical Communications, 2012, 48, 10502. | 4.1 | 44 |
| 44 | Nickelâ€“Iron Nitrideâ€“Nickel Sulfide Composites for Oxygen Evolution Electrocatalysis. ACS Applied Materials & Interfaces, 2020, 12, 41464-41470. | 8.0 | 44 |
| 45 | Facile synthesis of iron oxide coupled and doped titania nanocomposites: tuning of physicochemical and photocatalytic properties. RSC Advances, 2016, 6, 72791-72802. | 3.6 | 43 |
| 46 | Three-Dimensional Mesoporous Phosphideâ€“Spinel Oxide Heterojunctions with Dual Function as Catalysts for Overall Water Splitting. ACS Applied Energy Materials, 2020, 3, 1684-1693. | 5.1 | 43 |
| 47 | Strong optical absorption in CuTaN2 nitride delafossite. Energy and Environmental Science, 2013, 6, 2994. | 30.8 | 42 |
| 48 | Metal-organic frameworks-derived porous ZnO/Ni0.9Zn0.1O double-shelled nanocages as gas sensing material for selective detection of xylene. Sensors and Actuators B: Chemical, 2017, 252, 649-656. | 7.8 | 40 |
| 49 | Morphology-controlled synthesis of TiO<sub>2</sub>/MoS<sub>2</sub> nanocomposites with enhanced visible-light photocatalytic activity. Inorganic Chemistry Frontiers, 2018, 5, 145-152. | 6.0 | 40 |
| 50 | Titanium Nitride-Supported Platinum with Metalâ€“Support Interaction for Boosting Photocatalytic H<sub>2</sub> Evolution of Indium Sulfide. ACS Applied Materials & Interfaces, 2021, 13, 7238-7247. | 8.0 | 40 |
| 51 | Ru-decorated WO3 nanosheets for efficient xylene gas sensing application. Journal of Alloys and Compounds, 2020, 826, 154196. | 5.5 | 39 |
| 52 | Construction of Co3O4/CoWO4 core-shell urchin-like microspheres through ion-exchange method for high-performance acetone gas sensing performance. Sensors and Actuators B: Chemical, 2020, 309, 127711. | 7.8 | 38 |
| 53 | Reaction pathway and wiring network dependent Li/Na storage of micro-sized conversion anode with mesoporosity and metallic conductivity. Journal of Materials Chemistry A, 2015, 3, 509-514. | 10.3 | 37 |
| 54 | High-Performance Supercapacitor Electrode Obtained by Directly Bonding 2D Materials: Hierarchal MoS2 on Reduced Graphene Oxide. Frontiers in Materials, 2020, 7, . | 2.4 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Interface Engineering with Ultralow Ruthenium Loading for Efficient Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 36177-36185. | 8.0 | 35 |
| 56 | Aliovalent Fe(<scp>iii</scp>)-doped NiO microspheres for enhanced butanol gas sensing properties. Dalton Transactions, 2018, 47, 15181-15188. | 3.3 | 34 |
| 57 | Chromium-titanium nitride as an efficient co-catalyst for photocatalytic hydrogen production. Journal of Materials Chemistry A, 2020, 8, 15774-15781. | 10.3 | 34 |
| 58 | Highly selective and sensitive xylene sensors based on Nb-doped NiO nanosheets. Sensors and Actuators B: Chemical, 2020, 308, 127520. | 7.8 | 33 |
| 59 | Interface catalysis by Pt nanocluster@Ni<sub>3</sub>N for bifunctional hydrogen evolution and oxygen evolution. Materials Chemistry Frontiers, 2020, 4, 2665-2672. | 5.9 | 33 |
| 60 | Mesoporous WO<sub>3</sub> modified by Au nanoparticles for enhanced trimethylamine gas sensing properties. Dalton Transactions, 2021, 50, 970-978. | 3.3 | 33 |
| 61 | Prussian blue derived Fe<sub>2</sub>N for efficiently improving the photocatalytic hydrogen evolution activity of g-C<sub>3</sub>N<sub>4</sub> nanosheets. Catalysis Science and Technology, 2019, 9, 2571-2577. | 4.1 | 32 |
| 62 | Increased activity of nitrogen-doped graphene-like carbon sheets modified by iron doping for oxygen reduction. Journal of Colloid and Interface Science, 2019, 536, 42-52. | 9.4 | 32 |
| 63 | Engineering Co3+ cations in Co3O4 multishelled microspheres by Mn doping: The roles of Co3+ and oxygen species for sensitive xylene detection. Sensors and Actuators B: Chemical, 2020, 308, 127651. | 7.8 | 31 |
| 64 | Facile in situ nitrogen-doped carbon coated iron sulfide as green and efficient adsorbent for stable lithiumâ€“sulfur batteries. Chemical Engineering Journal, 2021, 404, 126462. | 12.7 | 31 |
| 65 | Ni-Mo ternary nitrides based one-dimensional hierarchical structures for efficient hydrogen evolution. Chemical Engineering Journal, 2020, 381, 122611. | 12.7 | 29 |
| 66 | Holey Sheets of Interconnected Carbon-Coated Nickel Nitride Nanoparticles as Highly Active and Durable Oxygen Evolution Electrocatalysts. ACS Applied Energy Materials, 2018, 1, 6774-6780. | 5.1 | 28 |
| 67 | Dual-phase metal nitrides as highly efficient co-catalysts for photocatalytic hydrogen evolution. Chemical Engineering Journal, 2021, 416, 129116. | 12.7 | 28 |
| 68 | Facile synthesis of mesoporous Co3O4 nanofans as gas sensing materials for selective detection of xylene vapor. Materials Letters, 2018, 218, 127-130. | 2.6 | 27 |
| 69 | Ni3N-V2O3 enables highly efficient 5-(Hydroxymethyl) furfural oxidation enabling membrane free hydrogen production. Chemical Engineering Journal, 2021, 415, 128864. | 12.7 | 27 |
| 70 | Hierarchical Co3O4@NiMoO4 core-shell nanowires for chemiresistive sensing of xylene vapor. Mikrochimica Acta, 2019, 186, 222. | 5.0 | 26 |
| 71 | Pt/WN based fuel cell type methanol sensor. Sensors and Actuators B: Chemical, 2020, 307, 127686. | 7.8 | 26 |
| 72 | Co3Mo3Nâ€”An efficient multifunctional electrocatalyst. Innovation(China), 2021, 2, 100096. | 9.1 | 26 |

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|---|---|---|---|
| 73 | Novel 3D flower-like micro/nano-structure FeS/N-doped-C composites as advanced cathodes with high lithium storage performances. Journal of Power Sources, 2019, 431, 226-231. | 7.8 | 25 |
| 74 | Large-scale synthesis of dual-emitting-based visualization sensing paper for humidity and ethanol detection. Sensors and Actuators B: Chemical, 2019, 282, 9-15. | 7.8 | 25 |
| 75 | Boosting Oxygen Reduction for Highâ€Efficiency H<sub>2</sub>O<sub>2</sub> Electrosynthesis on Oxygenâ€Coordinated Coï£¿Nï£¿C Catalysts. Small, 2022, 18, e2200730. | 10.0 | 25 |
| 76 | Enhanced, stable, humidity-tolerant xylene sensing using ordered macroporous NiO/ZrO2 nanocomposites. Sensors and Actuators B: Chemical, 2020, 324, 128648. | 7.8 | 24 |
| 77 | Platinum decorated mesoporous titanium nitride for fuel-cell type methanol gas sensor. Sensors and Actuators B: Chemical, 2020, 308, 127713. | 7.8 | 24 |
| 78 | Facile synthesis of In2O3 microcubes with exposed {1 0 0} facets as gas sensing material for selective detection of ethanol vapor. Materials Letters, 2017, 209, 618-621. | 2.6 | 23 |
| 79 | Nanoheterostructures of Partially Oxidized RuNi Alloy as Bifunctional Electrocatalysts for Overall Water Splitting. ChemSusChem, 2020, 13, 2739-2744. | 6.8 | 23 |
| 80 | Metal organic framework-derived porous Fe2N nanocubes by rapid-nitridation for efficient photocatalytic hydrogen evolution. Materials Advances, 2020, 1, 1161-1167. | 5.4 | 22 |
| 81 | Surface Functionalized Sensors for Humidityâ€Independent Gas Detection. Angewandte Chemie, 2021, 133, 6635-6640. | 2.0 | 22 |
| 82 | Integrated sensing array of the perovskite-type LnFeO3 (LnËLa, Pr, Nd, Sm) to discriminate detection of volatile sulfur compounds. Journal of Hazardous Materials, 2021, 413, 125380. | 12.4 | 22 |
| 83 | Flower-like nitrogen-oxygen-doped carbon encapsulating sulfur composite synthesized via in-situ oxidation approach. Chemical Engineering Journal, 2018, 345, 271-279. | 12.7 | 21 |
| 84 | Functional Differentiation of Three Pores for Effective Sulfur Confinement in Liâ€“S Battery. Small, 2018, 14, e1703279. | 10.0 | 21 |
| 85 | Highly Localized Câ€“N2 Sites for Efficient Oxygen Reduction. ACS Catalysis, 2020, 10, 9366-9375. | 11.2 | 21 |
| 86 | Catalytic Wet Air Oxidation of Coke-Plant Wastewater on Ruthenium-Based Eggshell Catalysts in a Bubbling Bed Reactor. Bulletin of Environmental Contamination and Toxicology, 2007, 79, 66-70. | 2.7 | 20 |
| 87 | A novel synthetic route to cathode materials for Liâ€“S batteries: from organic sulfides to sulfur/nitrogenous carbon composites. Journal of Materials Chemistry A, 2017, 5, 16796-16802. | 10.3 | 20 |
| 88 | Efficient photocatalytic hydrogen evolution over carbon supported antiperovskite cobalt zinc nitride. Chemical Engineering Journal, 2021, 408, 127307. | 12.7 | 20 |
| 89 | Oxygen Coordination on Feâ€“Nâ€“C to Boost Oxygen Reduction Catalysis. Journal of Physical Chemistry Letters, 2021, 12, 517-524. | 4.6 | 20 |
| 90 | Goldâ€Clusterâ€Based Dualâ€Emission Nanocomposite Film as Ratiometric Fluorescent Sensing Paper for Specific Metal Ion. Particle and Particle Systems Characterization, 2018, 35, 1700471. | 2.3 | 19 |

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|---|---|---|---|
| 91 | Oxidized impurity in transition metal nitride for improving the hydrogen evolution efficiency of transition metal nitride-based catalyst. Applied Materials Today, 2020, 18, 100476. | 4.3 | 19 |
| 92 | Ordered mesoporous transition metal nitrides prepared through hard template nanocasting and rapid nitridation process. Journal of Alloys and Compounds, 2020, 838, 155375. | 5.5 | 19 |
| 93 | Supporting nickel on vanadium nitride for comparable hydrogen evolution performance to platinum in alkaline solution. Journal of Materials Chemistry A, 2021, 9, 19669-19674. | 10.3 | 19 |
| 94 | Visible light photocatalysts (Fe, N):TiO 2 from ammonothermally processed, solvothermal self-assembly derived Fe-TiO 2 mesoporous microspheres. Materials Chemistry and Physics, 2017, 195, 259-267. | 4.0 | 18 |
| 95 | Geometric Structure and Electronic Polarization Synergistically Boost Hydrogen Evolution Kinetics in Alkaline Medium. Journal of Physical Chemistry Letters, 2020, 11, 3436-3442. | 4.6 | 18 |
| 96 | <sup>119</sup>Sn MÃ¶ssbauer and Ferromagnetic Studies on Hierarchical Tin- and Nitrogen-Codoped TiO<sub>2</sub> Microspheres with Efficient Photocatalytic Performance. Journal of Physical Chemistry C, 2017, 121, 6662-6673. | 3.1 | 17 |
| 97 | Fe<sub>3</sub>C cluster-promoted single-atom Fe, N doped carbon for oxygen-reduction reaction. Physical Chemistry Chemical Physics, 2020, 22, 7218-7223. | 2.8 | 17 |
| 98 | Surface Modification Using Polydopamine-Coated Liquid Metal Nanocapsules for Improving Performance of Graphene Paper-Based Thermal Interface Materials. Nanomaterials, 2021, 11, 1236. | 4.1 | 17 |
| 99 | High-density catalytic heterostructures strung by buried-in carbon tube network as monolithic holey host for endurable Li-S batteries. Chemical Engineering Journal, 2022, 446, 137294. | 12.7 | 17 |
| 100 | Caged-Cation-Induced Lattice Distortion in Bronze TiO<sub>2</sub>for Cohering Nanoparticulate Hydrogen Evolution Electrocatalysts. ACS Nano, 2022, 16, 9920-9928. | 14.6 | 17 |
| 101 | Co-precipitation strategy for engineering pH-tolerant and durable ZnO@MgO nanospheres for efficient, room-temperature, chemisorptive removal of Pb(II) from water. Journal of Environmental Chemical Engineering, 2019, 7, 103019. | 6.7 | 16 |
| 102 | Selective and Continuous Electrosynthesis of Hydrogen Peroxide on Nitrogen-doped Carbon Supported Nickel. Cell Reports Physical Science, 2020, 1, 100255. | 5.6 | 16 |
| 103 | Effect of nitridation on visible light photocatalytic behavior of microporous (Ag, Ag 2 O) co-loaded TiO 2. Microporous and Mesoporous Materials, 2017, 240, 137-144. | 4.4 | 15 |
| 104 | Iron-nitrogen dual-doped three-dimensional mesoporous carbons for high-activity electrocatalytic oxygen reduction. Applied Materials Today, 2018, 13, 174-181. | 4.3 | 14 |
| 105 | Nanourchin ZnO@TiCN composites for Cr (VI) adsorption and thermochemical remediation. Journal of Environmental Chemical Engineering, 2018, 6, 3837-3848. | 6.7 | 14 |
| 106 | S, N dual-doped porous carbon materials derived from biomass for Na ion storage and O2 electroreduction. Microporous and Mesoporous Materials, 2020, 294, 109930. | 4.4 | 14 |
| 107 | Mesoporous titanium niobium nitrides supported Pt nanoparticles for highly selective and sensitive formaldehyde sensing. Journal of Materials Chemistry A, 2021, 9, 19840-19846. | 10.3 | 14 |
| 108 | Enhanced visible light photocatalytic activity in N-doped edge- and corner-truncated octahedral Cu2O. Solid State Sciences, 2017, 65, 22-28. | 3.2 | 13 |

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|---|---|---|---|
| 109 | Hierarchical Ni3ZnN Hollow Microspheres as Stable Non-Noble Metal Electrocatalysts for Oxygen Reduction Reactions. Electrocatalysis, 2018, 9, 452-458. | 3.0 | 13 |
| 110 | Grand Canonical Monte Carlo Simulations on Phase Equilibria of Methane, Carbon Dioxide, and Their Mixture Hydrates. Journal of Physical Chemistry B, 2018, 122, 9724-9737. | 2.6 | 13 |
| 111 | ZnO nanoflowers modified with RuO2 for enhancing acetone sensing performance. Nanotechnology, 2020, 31, 115502. | 2.6 | 13 |
| 112 | Amine coupled ordered mesoporous (Coâ€“N) co-doped TiO<sub>2</sub>: a green photocatalyst for the selective aerobic oxidation of thioether. Catalysis Science and Technology, 2017, 7, 4182-4192. | 4.1 | 12 |
| 113 | Integrating trace amounts of Pd nanoparticles into Mo<sub>3</sub>N<sub>2</sub> nanobelts for an improved hydrogen evolution reaction. Physical Chemistry Chemical Physics, 2022, 24, 771-777. | 2.8 | 12 |
| 114 | Manganese-doped zinc oxide hollow balls for chemiresistive sensing of acetone vapors. Mikrochimica Acta, 2019, 186, 44. | 5.0 | 11 |
| 115 | Theoretical study on W-Co3O4 (1 1 1) surface: Acetone adsorption and sensing mechanism. Applied Surface Science, 2021, 566, 150642. | 6.1 | 11 |
| 116 | MOF-Derived Porous Ternary Nickel Iron Nitride Nanocube as a Functional Catalyst toward Water Splitting Hydrogen Evolution for Solar to Chemical Energy Conversion. ACS Applied Energy Materials, 2022, 5, 6155-6162. | 5.1 | 11 |
| 117 | Magnetic micro scavengers: highly porous Ni1â^'x Co x Fe2O4 microcubes for efficient disintegration of nitrophenol. Nanotechnology, 2018, 29, 215710. | 2.6 | 10 |
| 118 | A novel porous Mo<sub>3</sub>N<sub>2</sub>/MoO<sub>3</sub> hybrid nanobelt as supercapacitor electrode material. Nano Futures, 2018, 2, 045001. | 2.2 | 10 |
| 119 | Solidâ€“Solid Separation Approach for Preparation of Carbon-Supported Cobalt Carbide Nanoparticle Catalysts for Oxygen Reduction. ACS Applied Nano Materials, 2019, 2, 3662-3670. | 5.0 | 10 |
| 120 | Adsorption Behaviors and Phase Equilibria for Clathrate Hydrates of Sulfur- and Nitrogen-Containing Small Molecules. Journal of Physical Chemistry C, 2019, 123, 2691-2702. | 3.1 | 10 |
| 121 | Experimental and Theoretical Insights of MoS 2 /Mo 3 N 2 Nanoribbonâ€Electrocatalysts for Efficient Hydrogen Evolution Reaction. ChemCatChem, 2020, 12, 122-128. | 3.7 | 10 |
| 122 | Recent Advances in Nanocasting Cobalt-Based Mesoporous Materials for Energy Storage and Conversion. Electrocatalysis, 2020, 11, 465-484. | 3.0 | 10 |
| 123 | Interface engineering of mesoporous triphasic cobaltâ€“copper phosphides as active electrocatalysts for overall water splitting. Sustainable Energy and Fuels, 2021, 5, 1366-1373. | 4.9 | 10 |
| 124 | Clustered-Microcapsule-Shaped Microporous Carbon-Coated Sulfur Composite Synthesized via in Situ Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 44512-44518. | 8.0 | 9 |
| 125 | Ultraâ€low Loading of Au Clusters on Nickel Nitride Efficiently Boosts Photocatalytic Hydrogen Production with Titanium Dioxide. ChemCatChem, 2020, 12, 2752-2759. | 3.7 | 9 |
| 126 | Nitridation of CoWO<sub>4</sub>/CdS Nanocomposite Formed Metal Nitrides Assisting Efficiently Photocatalytic Hydrogen Evolution. ACS Omega, 2020, 5, 9969-9976. | 3.5 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Mesoporous Ti0.5Cr0.5N for trace H2S detection with excellent long-term stability. Journal of Hazardous Materials, 2022, 423, 127193. | 12.4 | 9 |
| 128 | Co<sub>4</sub>Nâ€“WN<sub>x</sub> composite for efficient piezocatalytic hydrogen evolution. Dalton Transactions, 2022, 51, 7127-7134. | 3.3 | 9 |
| 129 | Anti-perovskite metal carbides: A new family of promising electrocatalysts for oxygen reduction in alkaline solution. Materials Research Bulletin, 2021, 133, 111014. | 5.2 | 8 |
| 130 | In2O3 nanocubes modified with RuO2 for detection of TXM vapors containing benzyl group. Sensors and Actuators B: Chemical, 2021, 338, 129731. | 7.8 | 8 |
| 131 | Excellent stability fuel cell type methanol sensor based on platinum-decorated mesoporous CrN. Sensors and Actuators B: Chemical, 2021, 341, 129993. | 7.8 | 8 |
| 132 | Template synthesis of CoFe<sub>2</sub>O<sub>4</sub> extended surface microspheres for efficient water decontamination and absorption of electromagnetic waves: Twin behavior. Materials Research Express, 2019, 6, 075506. | 1.6 | 7 |
| 133 | Towards continuous ammonia electro-oxidation reaction on Pt catalysts with weakened adsorption of atomic nitrogen. International Journal of Hydrogen Energy, 2020, 45, 21816-21824. | 7.1 | 7 |
| 134 | A dimethyl disulfide gas sensor based on nanosized Pt-loaded tetrakaidecahedral Î±-Fe<sub>2</sub>O<sub>3</sub>nanocrystals. Nanotechnology, 2022, 33, 405502. | 2.6 | 7 |
| 135 | A mesoporous Ni<sub>3</sub>N/NiO composite with a coreâ€“shell structure for room temperature, selective and sensitive NO<sub>2</sub> gas sensing. RSC Advances, 2016, 6, 42917-42922. | 3.6 | 6 |
| 136 | Flowerâ€like FeS Coated with Heteroatom (S,N)â€Doped Carbon as Highly Active and Durable Oxygen Reduction Electrocatalysts. ChemElectroChem, 2020, 7, 2433-2439. | 3.4 | 6 |
| 137 | Nitrogen, sulfur co-doped carbon coated zinc sulfide for efficient hydrogen peroxide electrosynthesis. Dalton Transactions, 2021, 50, 5416-5419. | 3.3 | 6 |
| 138 | A fuel cell type gas sensor based on Pt/NbN for highly selective detection of hydrogen sulfide. Sensors and Actuators B: Chemical, 2021, 346, 130516. | 7.8 | 6 |
| 139 | Spin engineering of single-site metal catalysts. Innovation(China), 2022, 3, 100268. | 9.1 | 6 |
| 140 | Ordered mesoporous carbon assisted Feâ€“Nâ€“C for efficient oxygen reduction catalysis in both acidic and alkaline media. Nanotechnology, 2020, 31, 165708. | 2.6 | 5 |
| 141 | FeNi<sub>3</sub>â€“FeNi<sub>3</sub>N â€“ a high-performance catalyst for overall water splitting. Sustainable Energy and Fuels, 2020, 4, 6245-6250. | 4.9 | 5 |
| 142 | Molten Saltsâ€“Assisted Fabrication of Fe, S, and N Coâ€Doped Carbon as Efficient Oxygen Reduction Reaction Catalyst. Energy Technology, 2020, 8, 1900896. | 3.8 | 4 |
| 143 | A Surfaceâ€Oxideâ€Rich Activation Layer (SOAL) on Ni 2 Mo 3 N for a Rapid and Durable Oxygen Evolution Reaction. Angewandte Chemie, 2020, 132, 18192-18197. | 2.0 | 4 |
| 144 | Surface oxidation for enhancing the hydrogen evolution reaction of metal nitrides: a theoretical study on vanadium nitride. Materials Advances, 0, , . | 5.4 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Oxygen Release and Incorporation Behaviors Influenced by A-Site Cation Order/Disorder in LaCa<sub>2</sub>Fe<sub>3</sub>O<sub>9</sub> with Unusually High Valence Fe<sup>3.67+</sup>. Chemistry of Materials, 2022, 34, 345-350. | 6.7 | 4 |
| 146 | Analysis of gluconate metabolism for pyruvate production in engineeredEscherichia colibased on genome-wide transcriptomes. Letters in Applied Microbiology, 2017, 65, 165-172. | 2.2 | 3 |
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