# Wei Zhou

List of Publications by Year
in descending order



| 271 | 19,911 | 8755 75 | 14208 128 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 275 | 275 | 275 | 19389 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 3D flower-like mesoporous Bi4O5I2/MoS2 Z-scheme heterojunction with optimized photothermal-photocatalytic performance. Green Energy and Environment, 2023, 8, 200-212. | 8.7 | 13 |
| 2 | Recent advances in bismuth-based photocatalysts: Environment and energy applications. Green Energy and Environment, 2023, 8, 1232-1264. | 8.7 | 24 |
| 3 | Engineering surface oxygen vacancy of mesoporous CeO2 nanosheets assembled microspheres for boosting solar-driven photocatalytic performance. Chinese Chemical Letters, 2022, 33, 378-384. | 9.0 | 32 |
| 4 | Mesoporous black TiO2/MoS2/Cu2S hierarchical tandem heterojunctions toward optimized photothermal-photocatalytic fuel production. Chemical Engineering Journal, 2022, 427, 131830. | 12.7 | 126 |
| 5 | Hollow Core-Shell potassium Phosphomolybdate@Cadmium Sulfide@Bismuth sulfide Z-Scheme tandem heterojunctions toward optimized Photothermal-Photocatalytic performance. Journal of Colloid and Interface Science, 2022, 607, 942-953. | 9.4 | 24 |
| 6 | MoS2@In2S3/Bi2S3 Core-shell dual Z-scheme tandem heterojunctions with Broad-spectrum response and enhanced Photothermal-photocatalytic performance. Chemical Engineering Journal, 2022, 431, 133355. | 12.7 | 24 |
| 7 | Regulating the surface state of ZnIn<sub>2</sub>S<sub>4</sub> by gamma-ray irradiation for enhanced photocatalytic hydrogen evolution. Catalysis Science and Technology, 2022, 12, 927-934. | 4.1 | 9 |
| 8 | Surface domain potential difference-mediated efficient charge separation on a defective ZnIn2S4 microsphere photocatalyst. Materials Today Chemistry, 2022, 23, 100714. | 3.5 | 7 |
| 9 | Recent progress in defective TiO2 photocatalysts for energy and environmental applications. Renewable and Sustainable Energy Reviews, 2022, 156, 111980. | 16.4 | 179 |
| 10 | UiO-66-NH<sub>2</sub> Octahedral Nanocrystals Decorated with ZnFe<sub>2</sub>O<sub>4</sub> Nanoparticles for Photocatalytic Alcohol Oxidation. ACS Applied Nano Materials, 2022, 5, 2231-2240. | 5.0 | 17 |
| 11 | Polydopamine/defective ultrathin mesoporous graphitic carbon nitride nanosheets as Z-scheme organic assembly for robust photothermal-photocatalytic performance. Journal of Colloid and Interface Science, 2022, 613, 775-785. | 9.4 | 14 |
| 12 | In-situ interstitial zinc doping-mediated efficient charge separation for ZnIn2S4 nanosheets visible-light photocatalysts towards optimized overall water splitting. Chemical Engineering Journal, 2022, 435, 135074. | 12.7 | 30 |
| 13 | Hollow semiconductor photocatalysts for solar energy conversion. , 2022, 1, 100021. | | 106 |
| 14 | Progress in synthesis of highly crystalline covalent organic frameworks and their crystallinity enhancement strategies. Chinese Chemical Letters, 2022, 33, 2856-2866. | 9.0 | 27 |
| 15 | Preparation and Photocatalytic Properties of Anatase TiO2 with Hollow Hexagonal Frame Structure. Nanomaterials, 2022, 12, 1409. | 4.1 | 2 |
| 16 | Efficient Charge Transfer Channels in Reduced Graphene Oxide/Mesoporous TiO2 Nanotube Heterojunction Assemblies toward Optimized Photocatalytic Hydrogen Evolution. Nanomaterials, 2022, 12, 1474. | 4.1 | 5 |
| 17 | Hollow core-shell Z-scheme heterojunction on self-floating carbon fiber cloth with robust photocatalytic-photothermal performance. Journal of Cleaner Production, 2022, 360, 132166. | 9.3 | 11 |
| 18 | Heteroatom-induced domain electrostatic potential difference in ZnIn<sub>2</sub>S<sub>4</sub>nanosheets for efficient charge separation and boosted photocatalytic overall water splitting. Materials Chemistry Frontiers, 2022, 6, 1795-1802. | 5.9 | 8 |

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|---|---|---|---|
| 19 | Hollow Nanoboxes Cu<sub>2â€x</sub>S@ZnIn<sub>2</sub>S<sub>4</sub> Coreâ€Shell Sâ€Scheme Heterojunction with Broadâ€Spectrum Response and Enhanced Photothermalâ€Photocatalytic Performance. Small, 2022, 18, . | 10.0 | 76 |
| 20 | An efficient photoÂFenton system for in-situ evolution of H2O2 via defective iron-based metal organic framework@ZnIn2S4 core-shell Z-scheme heterojunction nanoreactor. Journal of Hazardous Materials, 2022, 437, 129436. | 12.4 | 28 |
| 21 | Ag/polydopamine nanoparticles co-decorated defective mesoporous carbon nitride nanosheets assemblies for wide spectrum response and robust photothermal-photocatalytic performance. Applied Surface Science, 2022, 598, 153895. | 6.1 | 5 |
| 22 | Surface engineering of hematite nanorods photoanode towards optimized photoelectrochemical water splitting. Journal of Colloid and Interface Science, 2022, 626, 879-888. | 9.4 | 14 |
| 23 | Ultrathin mesoporous g-C3N4/NH2-MIL-101(Fe) octahedron heterojunctions as efficient photo-Fenton-like system for enhanced photo-thermal effect and promoted visible-light-driven photocatalytic performance. Applied Surface Science, 2021, 537, 147890. | 6.1 | 84 |
| 24 | Hollow MoSe2@Bi2S3/CdS Core-Shell Nanostructure as Dual Z-Scheme Heterojunctions with Enhanced Full Spectrum Photocatalytic-Photothermal Performance. Applied Catalysis B: Environmental, 2021, 281, 119482. | 20.2 | 160 |
| 25 | Surface engineering of mesoporous anatase titanium dioxide nanotubes for rapid spatial charge separation on horizontal-vertical dimensions and efficient solar-driven photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2021, 586, 75-83. | 9.4 | 25 |
| 26 | Cadmium sulfide quantum dots/dodecahedral polyoxometalates/oxygen-doped mesoporous graphite carbon nitride with Z-scheme and Type-II as tandem heterojunctions for boosting visible-light-driven photocatalytic performance. Journal of Colloid and Interface Science, 2021, 582, 752-763. | 9.4 | 39 |
| 27 | Engineering Surface Nâ€Vacancy Defects of Ultrathin Mesoporous Carbon Nitride Nanosheets as Efficient Visibleâ€Lightâ€Driven Photocatalysts. Solar Rrl, 2021, 5, . | 5.8 | 34 |
| 28 | Coreâ€“shell carbon colloid sphere@phosphotungstic acid/CdS as a Z-scheme heterojunction with synergistic adsorption, photothermal and photocatalytic performance. Catalysis Science and Technology, 2021, 11, 6080-6088. | 4.1 | 4 |
| 29 | NiS/Pt nanoparticles co-decorated black mesoporous TiO2 hollow nanotube assemblies as efficient hydrogen evolution photocatalysts. Applied Materials Today, 2021, 22, 100977. | 4.3 | 17 |
| 30 | Bi2S3@Ag2S nano-heterojunction decorated self-floating carbon fiber cloth and enhanced solar-driven photothermal-photocatalytic performance. Chemosphere, 2021, 271, 129500. | 8.2 | 17 |
| 31 | Zinc sulfide quantum dots/zinc oxide nanospheres/bismuth-enriched bismuth oxyiodides as Z-scheme/type-II tandem heterojunctions for an efficient charge separation and boost solar-driven photocatalytic performance. Journal of Colloid and Interface Science, 2021, 592, 259-270. | 9.4 | 35 |
| 32 | Plasma Cu-decorated TiO2â^'x/CoP particle-level hierarchical heterojunctions with enhanced photocatalytic-photothermal performance. Journal of Hazardous Materials, 2021, 414, 125487. | 12.4 | 36 |
| 33 | Surface defects induced charge imbalance for boosting charge separation and solar-driven photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2021, 596, 12-21. | 9.4 | 19 |
| 34 | O, S-Dual-Vacancy Defects Mediated Efficient Charge Separation in ZnIn<sub>2</sub>S<sub>4</sub>/Black TiO<sub>2</sub> Heterojunction Hollow Spheres for Boosting Photocatalytic Hydrogen Production. ACS Applied Materials & Interfaces, 2021, 13, 37545-37552. | 8.0 | 52 |
| 35 | The effective strategies of preparing black F-TiIII-codoping TiO2 anchored on sepiolite for enhanced photodegradation. Applied Clay Science, 2021, 209, 106116. | 5.2 | 9 |
| 36 | Gear-shaped mesoporous NH2-MIL-53(Al)/CdS P-N heterojunctions as efficient visible-light-driven photocatalysts. Applied Catalysis B: Environmental, 2021, 291, 120106. | 20.2 | 60 |

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|---|---|---|---|
| 37 | Recent advances in coreâ€“shell metal organic frame-based photocatalysts for solar energy conversion. Coordination Chemistry Reviews, 2021, 446, 214123. | 18.8 | 48 |
| 38 | Effect of yttrium on the wave absorption properties of Fe95Si1B2P0.5Cu1.5 alloy powders in the S-band and C-band. Journal of Magnetism and Magnetic Materials, 2021, 538, 168250. | 2.3 | 6 |
| 39 | Phosphorus-doping CdS@NiFe layered double hydroxide as Z-Scheme heterojunction for enhanced photocatalytic and photo-fenton degradation performance. Separation and Purification Technology, 2021, 274, 119066. | 7.9 | 26 |
| 40 | Hollow cubic Cu2-xS/Fe-POMs/AgVO3 dual Z-scheme heterojunctions with wide-spectrum response and enhanced photothermal and photocatalytic-fenton performance. Applied Catalysis B: Environmental, 2021, 298, 120628. | 20.2 | 44 |
| 41 | Hierarchical Z-scheme Bi2S3/CdS heterojunction: Controllable morphology and excellent photocatalytic antibacterial. Applied Surface Science, 2021, 568, 150923. | 6.1 | 24 |
| 42 | NiO nanoparticles dotted TiO2 nanosheets assembled nanotubes P-N heterojunctions for efficient interface charge separation and photocatalytic hydrogen evolution. Applied Surface Science, 2021, 568, 150981. | 6.1 | 30 |
| 43 | Hollow coreâ€“shell Co<sub>9</sub>S<sub>8</sub>@In<sub>2</sub>S<sub>3</sub> nanotube heterojunctions toward optimized photothermalâ€“photocatalytic performance. Catalysis Science and Technology, 2021, 11, 7412-7419. | 4.1 | 15 |
| 44 | Polyoxometalate-based yolk@shell dual Z-scheme superstructure tandem heterojunction nanoreactors: encapsulation and confinement effects. Journal of Materials Chemistry A, 2021, 10, 180-191. | 10.3 | 26 |
| 45 | Self-floating biomass charcoal supported flower-like plasmon silver/carbon, nitrogen co-doped defective TiO2 as robust visible light photocatalysts. Journal of Cleaner Production, 2021, 329, 129723. | 9.3 | 10 |
| 46 | Ti3+ self-doped rutile/anatase/TiO2(B) mixed-crystal tri-phase heterojunctions as effective visible-light-driven photocatalysts. Arabian Journal of Chemistry, 2020, 13, 2568-2578. | 4.9 | 28 |
| 47 | Precisely photothermal controlled releasing of antibacterial agent from Bi2S3 hollow microspheres triggered by NIR light for water sterilization. Chemical Engineering Journal, 2020, 381, 122630. | 12.7 | 74 |
| 48 | Recent advances in Ti3+ self-doped nanostructured TiO2 visible light photocatalysts for environmental and energy applications. Chemical Engineering Journal, 2020, 382, 123011. | 12.7 | 122 |
| 49 | Dual plasmons-promoted electron-hole separation for direct Z-scheme Bi3O4Cl/AgCl heterojunction ultrathin nanosheets and enhanced photocatalytic-photothermal performance. Journal of Hazardous Materials, 2020, 384, 121268. | 12.4 | 34 |
| 50 | Surface oxygen vacancy defect-promoted electron-hole separation for porous defective ZnO hexagonal plates and enhanced solar-driven photocatalytic performance. Chemical Engineering Journal, 2020, 379, 122295. | 12.7 | 170 |
| 51 | Defect-rich and electron-rich mesoporous Ti-MOFs based NH2-MIL-125(Ti)@ZnIn2S4/CdS hierarchical tandem heterojunctions with improved charge separation and enhanced solar-driven photocatalytic performance. Applied Catalysis B: Environmental, 2020, 262, 118202. | 20.2 | 143 |
| 52 | Recent advances in metal organic frame photocatalysts for environment and energy applications. Applied Materials Today, 2020, 21, 100821. | 4.3 | 25 |
| 53 | Surface domain heterojunction on rutile TiO<sub>2</sub> for highly efficient photocatalytic hydrogen evolution. Nanoscale Horizons, 2020, 5, 1596-1602. | 8.0 | 15 |
| 54 | Hollow Octahedral Cu<sub>2â€“x</sub>S/CdS/Bi<sub>2</sub>S<sub>3</sub> pâ€“nâ€“p Type Tandem Heterojunctions for Efficient Photothermal Effect and Robust Visible-Light-Driven Photocatalytic Performance. ACS Applied Materials & Interfaces, 2020, 12, 40328-40338. | 8.0 | 77 |

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|---|---|---|---|
| 55 | Plasmon Ag nanoparticle/Bi2S3 ultrathin nanobelt/oxygen-doped flower-like MoS2 nanosphere ternary heterojunctions for promoting charge separation and enhancing solar-driven photothermal and photocatalytic performances. Applied Catalysis B: Environmental, 2020, 274, 118947. | 20.2 | 94 |
| 56 | BiVO4@ZnIn2S4/Ti3C2 MXene quantum dots assembly all-solid-state direct Z-Scheme photocatalysts for efficient visible-light-driven overall water splitting. Applied Materials Today, 2020, 20, 100719. | 4.3 | 61 |
| 57 | Wide-spectrum response urchin-like Bi2S3 spheres and ZnS quantum dots co-decorated mesoporous g-C3N4 nanosheets heterojunctions for promoting charge separation and enhancing photothermal-photocatalytic performance. Applied Surface Science, 2020, 527, 146653. | 6.1 | 32 |
| 58 | Monodispersed Nickel Phosphide Nanocrystals in Situ Grown on Reduced Graphene Oxide with Controllable Size and Composition as a Counter Electrode for Dye-Sensitized Solar Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 5920-5926. | 6.7 | 27 |
| 59 | Sandwich-like mesoporous graphite-like carbon nitride (Meso-g-C3N4)/WP/Meso-g-C3N4 laminated heterojunctions solar-driven photocatalysts. Journal of Colloid and Interface Science, 2020, 568, 255-263. | 9.4 | 25 |
| 60 | The self-supported Zn-doped CoNiP microsphere/thorn hierarchical structures as efficient bifunctional catalysts for water splitting. Electrochimica Acta, 2020, 339, 135933. | 5.2 | 19 |
| 61 | CdS quantum dots modified surface oxygen vacancy defect ZnO1-x-TiO2-x solid solution sphere as Z-Scheme heterojunctions for efficient visible light-driven photothermal-photocatalytic performance. Journal of Alloys and Compounds, 2020, 826, 154218. | 5.5 | 20 |
| 62 | Synthesis of Defect-Rich Titanium Terephthalate with the Assistance of Acetic Acid for Room-Temperature Oxidative Desulfurization of Fuel Oil. ACS Catalysis, 2020, 10, 2384-2394. | 11.2 | 100 |
| 63 | Engineering surface defects on two-dimensional ultrathin mesoporous anatase TiO<sub>2</sub> nanosheets for efficient charge separation and exceptional solar-driven photocatalytic hydrogen evolution. Journal of Materials Chemistry C, 2020, 8, 3476-3482. | 5.5 | 34 |
| 64 | Plasmon-sensitized TiO2 nanomaterials as visible light photocatalysts. , 2020, , 143-174. | | 1 |
| 65 | Hollow flower-like polyhedral Î±-Fe2O3/Defective MoS2/Ag Z-scheme heterojunctions with enhanced photocatalytic-Fenton performance via surface plasmon resonance and photothermal effects. Applied Catalysis B: Environmental, 2020, 272, 118978. | 20.2 | 101 |
| 66 | Wide spectral response photothermal catalysis-fenton coupling systems with 3D hierarchical Fe3O4/Ag/Bi2MoO6 ternary hetero-superstructural magnetic microspheres for efficient high-toxic organic pollutants removal. Journal of Colloid and Interface Science, 2019, 533, 24-33. | 9.4 | 61 |
| 67 | Defects-engineering of magnetic Î³-Fe2O3 ultrathin nanosheets/mesoporous black TiO2 hollow sphere heterojunctions for efficient charge separation and the solar-driven photocatalytic mechanism of tetracycline degradation. Applied Catalysis B: Environmental, 2019, 240, 319-328. | 20.2 | 188 |
| 68 | Facet-Dependent SnS Nanocrystals as the High-Performance Counter Electrode Materials for Dye-Sensitized Solar Cells. ACS Sustainable Chemistry and Engineering, 2019, 7, 14353-14360. | 6.7 | 11 |
| 69 | The enhanced co-catalyst free photocatalytic hydrogen evolution and stability based on indenofluorene-containing donor-acceptor conjugated polymer dots/g-C3N4 nanosheets heterojunction. Applied Catalysis B: Environmental, 2019, 259, 118067. | 20.2 | 51 |
| 70 | Dual oxygen vacancy defects-mediated efficient electron-hole separation via surface engineering of Ag/Bi2MoO6 nanosheets/TiO2 nanobelts ternary heterostructures. Journal of Industrial and Engineering Chemistry, 2019, 78, 155-163. | 5.8 | 20 |
| 71 | Surface-defect-rich mesoporous NH2-MIL-125 (Ti)@Bi2MoO6 core-shell heterojunction with improved charge separation and enhanced visible-light-driven photocatalytic performance. Journal of Colloid and Interface Science, 2019, 554, 324-334. | 9.4 | 44 |
| 72 | Interfaceâ€Hybridizationâ€Enhanced Photothermal Performance of Polypyrrole/Polydopamine Heterojunctions on Porous Nanoparticles. Macromolecular Rapid Communications, 2019, 40, e1900263. | 3.9 | 21 |

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|---|---|---|---|
| 73 | WS2 quantum dots/MoS2@WO3-x core-shell hierarchical dual Z-scheme tandem heterojunctions with wide-spectrum response and enhanced photocatalytic performance. Applied Catalysis B: Environmental, 2019, 257, 117913. | 20.2 | 113 |
| 74 | Promoted spatial charge separation of plasmon Ag and co-catalyst Co <sub>x</sub> P decorated mesoporous g-C<sub>3</sub>N<sub>4</sub> nanosheet assembly for unexpected solar-driven photocatalytic performance. Nanotechnology, 2019, 30, 485401. | 2.6 | 7 |
| 75 | Earth-rich Ni2P/Ni(PO3)2 co-catalysts promoted electronâ€“hole separation for g-C3N4 nanosheets visible light photocatalysts. Journal of the Taiwan Institute of Chemical Engineers, 2019, 104, 160-167. | 5.3 | 16 |
| 76 | Surface-oxygen vacancy defect-promoted electron-hole separation of defective tungsten trioxide ultrathin nanosheets and their enhanced solar-driven photocatalytic performance. Journal of Colloid and Interface Science, 2019, 557, 18-27. | 9.4 | 14 |
| 77 | Plasmon Ag-Promoted Solarâ€“Thermal Conversion on Floating Carbon Cloth for Seawater Desalination and Sewage Disposal. ACS Applied Materials & Interfaces, 2019, 11, 7066-7073. | 8.0 | 80 |
| 78 | Oxygen-Doped MoS<sub>2</sub> Nanospheres/CdS Quantum Dots/g-C<sub>3</sub>N<sub>4</sub> Nanosheets Super-Architectures for Prolonged Charge Lifetime and Enhanced Visible-Light-Driven Photocatalytic Performance. ACS Applied Materials & Interfaces, 2019, 11, 7104-7111. | 8.0 | 122 |
| 79 | Mesoporous g-C3N4/Znâ€“Ti LDH laminated van der Waals heterojunction nanosheets as remarkable visible-light-driven photocatalysts. International Journal of Hydrogen Energy, 2019, 44, 16348-16358. | 7.1 | 49 |
| 80 | WO3/BiVO4/BiOCl porous nanosheet composites from a biomass template for photocatalytic organic pollutant degradation. Journal of Alloys and Compounds, 2019, 802, 76-85. | 5.5 | 39 |
| 81 | In situ growth of Co9S8 nanocrystals on reduced graphene oxide for the enhanced catalytic performance of dye-sensitized solar cell. Journal of Alloys and Compounds, 2019, 803, 216-223. | 5.5 | 21 |
| 82 | All-Solid Z-Scheme Biâ€“BiOCl/AgCl Heterojunction Microspheres for Improved Electronâ€“Hole Separation and Enhanced Visible Light-Driven Photocatalytic Performance. Langmuir, 2019, 35, 7887-7895. | 3.5 | 39 |
| 83 | Graphene-Like Carbon Derived from Macadamia Nut Shells for High-Performance Supercapacitor. Russian Journal of Electrochemistry, 2019, 55, 242-246. | 0.9 | 17 |
| 84 | Nano-zero-valent iron and MnOx selective deposition on BiVO4 decahedron superstructures for promoted spatial charge separation and exceptional catalytic activity in visible-light-driven photocatalysis-Fenton coupling system. Journal of Hazardous Materials, 2019, 377, 330-340. | 12.4 | 48 |
| 85 | Homojunction and defect synergy-mediated electronâ€“hole separation for solar-driven mesoporous rutile/anatase TiO<sub>2</sub> microsphere photocatalysts. RSC Advances, 2019, 9, 7870-7877. | 3.6 | 18 |
| 86 | Surface plasma Ag-decorated single-crystalline TiO2â˜x(B) nanorod/defect-rich g-C3N4 nanosheet ternary superstructure 3D heterojunctions as enhanced visible-light-driven photocatalyst. Journal of Colloid and Interface Science, 2019, 542, 63-72. | 9.4 | 31 |
| 87 | Hierarchical SnS<sub>2</sub>/CuInS<sub>2</sub> Nanosheet Heterostructure Films Decorated with C<sub>60</sub> for Remarkable Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 9093-9101. | 8.0 | 68 |
| 88 | Plasmon Ag and CdS quantum dot co-decorated 3D hierarchical ball-flower-like Bi<sub>5</sub>O<sub>7</sub>I nanosheets as tandem heterojunctions for enhanced photothermalâ€“photocatalytic performance. Catalysis Science and Technology, 2019, 9, 6714-6722. | 4.1 | 29 |
| 89 | Bifunctional nest-like self-floating microreactor for enhanced photothermal catalysis and biocatalysis. Environmental Science: Nano, 2019, 6, 3551-3559. | 4.3 | 13 |
| 90 | Surface defect and rational design of TiO2â˜x nanobelts/ g-C3N4 nanosheets/ CdS quantum dotsÂhierarchical structure for enhanced visible-light-driven photocatalysis. International Journal of Hydrogen Energy, 2019, 44, 1586-1596. | 7.1 | 34 |

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| 91 | Surface Plasmon Resonanceâ€Enhanced Visibleâ€NIRâ€Driven Photocatalytic and Photothermal Catalytic Performance by Ag/Mesoporous Black TiO<sub>2</sub> Nanotube Heterojunctions. Chemistry - an Asian Journal, 2019, 14, 177-186. | 3.3 | 39 |
| 92 | Assembly of surface-defect single-crystalline strontium titanate nanocubes acting as molecular bricks onto surface-defect single-crystalline titanium dioxide (B) nanorods for efficient visible-light-driven photocatalytic performance. Journal of Colloid and Interface Science, 2019, 537, 441-449. | 9.4 | 10 |
| 93 | Tuning in BiVO4/Bi4V2O10 porous heterophase nanospheres for synergistic photocatalytic degradation of organic pollutants. Applied Surface Science, 2019, 470, 631-638. | 6.1 | 20 |
| 94 | Improved charge separation of NiS nanoparticles modified defect-engineered black TiO<sub>2</sub> hollow nanotubes for boosting solar-driven photocatalytic H<sub>2</sub> evolution. Nanotechnology, 2019, 30, 125703. | 2.6 | 20 |
| 95 | Synergistic effect of surface plasmon resonance, Ti3+ and oxygen vacancy defects on Ag/MoS2/TiO2-x ternary heterojunctions with enhancing photothermal catalysis for low-temperature wastewater degradation. Journal of Hazardous Materials, 2019, 364, 117-124. | 12.4 | 93 |
| 96 | Experimental and DFT insights of the Zn-doping effects on the visible-light photocatalytic water splitting and dye decomposition over Zn-doped BiOBr photocatalysts. Applied Catalysis B: Environmental, 2019, 243, 502-512. | 20.2 | 164 |
| 97 | Novel AgCl nanotubes/BiOCl nanosheets composite with improved adsorption capacity and photocatalytic performance. Journal of Alloys and Compounds, 2019, 773, 1146-1153. | 5.5 | 16 |
| 98 | Ni<sub>2</sub>P Entwined by Graphite Layers as a Low-Pt Electrocatalyst in Acidic Media for Oxygen Reduction. ACS Applied Materials & Interfaces, 2018, 10, 9999-10010. | 8.0 | 34 |
| 99 | Bi plasmon-enhanced mesoporous Bi2MoO6/Ti3+ self-doped TiO2 microsphere heterojunctions as efficient visible-light-driven photocatalysts. Journal of Alloys and Compounds, 2018, 750, 659-668. | 5.5 | 34 |
| 100 | Defect-mediated electronâ€“hole separation in semiconductor photocatalysis. Inorganic Chemistry Frontiers, 2018, 5, 1240-1254. | 6.0 | 166 |
| 101 | Tetra-heteroatom self-doped carbon nanosheets derived from silkworm excrement for high-performance supercapacitors. Journal of Power Sources, 2018, 379, 74-83. | 7.8 | 101 |
| 102 | Engineering oxygen vacancy on rutile TiO2 for efficient electron-hole separation and high solar-driven photocatalytic hydrogen evolution. Science China Materials, 2018, 61, 822-830. | 6.3 | 65 |
| 103 | Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. Science Advances, 2018, 4, eaao6657. | 10.3 | 460 |
| 104 | Enhanced charge transfer and separation of hierarchical hydrogenated TiO<sub>2</sub> nanothorns/carbon nanofibers composites decorated by NiS quantum dots for remarkable photocatalytic H<sub>2</sub> production activity. Nanoscale, 2018, 10, 4041-4050. | 5.6 | 39 |
| 105 | Surface plasmon resonance-enhanced visible-light-driven photocatalysis by Ag nanoparticles decorated S-TiO2â˚' nanorods. Journal of the Taiwan Institute of Chemical Engineers, 2018, 82, 198-204. | 5.3 | 47 |
| 106 | Ni<sub>3</sub>S<sub>2</sub> Nanosheets in Situ Epitaxially Grown on Nanorods as High Active and Stable Homojunction Electrocatalyst for Hydrogen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 2474-2481. | 6.7 | 72 |
| 107 | Ti3+ self-doped mesoporous black TiO2/SiO2/g-C3N4 sheets heterojunctions as remarkable visible-lightdriven photocatalysts. Applied Catalysis B: Environmental, 2018, 226, 499-508. | 20.2 | 131 |
| 108 | Facile Synthesis of Co<sub>9</sub>S<sub>8</sub> Hollow Spheres as a High-Performance Electrocatalyst for the Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 1863-1871. | 6.7 | 82 |

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| 109 | The sesame ball-like CoS/MoS2 nanospheres as efficient counter electrode catalysts for dye-sensitized solar cells. Journal of Alloys and Compounds, 2018, 739, 568-576. | 5.5 | 23 |
| 110 | C,N co-doped porous TiO<sub>2</sub>hollow sphere visible light photocatalysts for efficient removal of highly toxic phenolic pollutants. Dalton Transactions, 2018, 47, 4877-4884. | 3.3 | 26 |
| 111 | Multifunctional (Fe0.5Ni0.5)S2 nanocrystal catalysts with high catalytic activities for reduction of I3â˜ and electrochemical water splitting. Research on Chemical Intermediates, 2018, 44, 4307-4322. | 2.7 | 6 |
| 112 | Plasmon Ag decorated 3D urchinlike N-TiO2â˜x for enhanced visible-light-driven photocatalytic performance. Journal of Colloid and Interface Science, 2018, 521, 102-110. | 9.4 | 25 |
| 113 | CdS quantum dots/Ti3+-TiO2 nanobelts heterojunctions as efficient visible-light-driven photocatalysts. Materials Research Bulletin, 2018, 103, 114-121. | 5.2 | 33 |
| 114 | Mesoporous black TiO2-x/Ag nanospheres coupled with g-C3N4 nanosheets as 3D/2D ternary heterojunctions visible light photocatalysts. Journal of Hazardous Materials, 2018, 343, 181-190. | 12.4 | 147 |
| 115 | Magnetic Fe2O3/mesoporous black TiO2 hollow sphere heterojunctions with wide-spectrum response and magnetic separation. Applied Catalysis B: Environmental, 2018, 221, 235-242. | 20.2 | 92 |
| 116 | Ti3+-TiO2/g-C3N4 mesostructured nanosheets heterojunctions as efficient visible-light-driven photocatalysts. Journal of Catalysis, 2018, 357, 90-99. | 6.2 | 157 |
| 117 | Ti3+-TiO2/Ce3+-CeO2 Nanosheet heterojunctions as efficient visible-light-driven photocatalysts. Materials Research Bulletin, 2018, 100, 191-197. | 5.2 | 43 |
| 118 | Recent advances in floating TiO2-based photocatalysts for environmental application. Applied Catalysis B: Environmental, 2018, 225, 452-467. | 20.2 | 443 |
| 119 | Surface plasmon resonance-enhanced solar-driven photocatalytic performance from Ag nanoparticle-decorated self-floating porous black TiO2 foams. Applied Catalysis B: Environmental, 2018, 220, 111-117. | 20.2 | 78 |
| 120 | Hydrogenated Cu<sub>2</sub>OAu@CeO<sub>2</sub> Z-scheme catalyst for photocatalytic oxidation of amines to imines. Catalysis Science and Technology, 2018, 8, 5535-5543. | 4.1 | 23 |
| 121 | Biomass carbon materials derived from macadamia nut shells for high-performance supercapacitors. Bulletin of Materials Science, 2018, 41, 1. | 1.7 | 11 |
| 122 | Fineâ€Tuning Surface Properties of Perovskites via Nanocompositing with Inert Oxide toward Developing Superior Catalysts for Advanced Oxidation. Advanced Functional Materials, 2018, 28, 1804654. | 14.9 | 80 |
| 123 | Surface Modulation of Hierarchical MoS<sub>2</sub> Nanosheets by Ni Single Atoms for Enhanced Electrocatalytic Hydrogen Evolution. Advanced Functional Materials, 2018, 28, 1807086. | 14.9 | 314 |
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