

Qidong Zhao

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159
papers

7,522
citations

51
h-index

80
g-index

163
ext. papers

8,409
ext. citations

7.3
avg, IF

6.22
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 159 | Electrochemical Method for Synthesis of a ZnFe ₂ O ₄ /TiO ₂ Composite Nanotube Array Modified Electrode with Enhanced Photoelectrochemical Activity. <i>Advanced Functional Materials</i> , 2010 , 20, 2165-2174 | 21.8 | 278 |
| 158 | Mechanistic investigation of the enhanced NH ₃ -SCR on cobalt-decorated Ce-Ti mixed oxide: In situ FTIR analysis for structure-activity correlation. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 297-308 | 21.8 | 276 |
| 157 | A Study of Quantum Confinement Properties of Photogenerated Charges in ZnO Nanoparticles by Surface Photovoltage Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 3202-3206 | 3.4 | 242 |
| 156 | A general, one-step and template-free synthesis of sphere-like zinc ferrite nanostructures with enhanced photocatalytic activity for dye degradation. <i>Journal of Colloid and Interface Science</i> , 2011 , 358, 102-8 | 9.3 | 217 |
| 155 | Role of hydroxyl radicals and mechanism of Escherichia coli inactivation on Ag/AgBr/TiO ₂ nanotube array electrode under visible light irradiation. <i>Environmental Science & Technology</i> , 2012 , 46, 4042-50 | 10.3 | 209 |
| 154 | Electrochemically assisted photocatalytic degradation of 4-chlorophenol by ZnFe ₂ O ₄ -modified TiO ₂ nanotube array electrode under visible light irradiation. <i>Environmental Science & Technology</i> , 2010 , 44, 5098-103 | 10.3 | 163 |
| 153 | Novel V ₂ O ₅ /BiVO ₄ /TiO ₂ Nanocomposites with High Visible-Light-Induced Photocatalytic Activity for the Degradation of Toluene. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10113-10121 | 3.8 | 153 |
| 152 | ZnFe ₂ O ₄ multi-porous microbricks/graphene hybrid photocatalyst: Facile synthesis, improved activity and photocatalytic mechanism. <i>Applied Catalysis B: Environmental</i> , 2013 , 142-143, 80-88 | 21.8 | 142 |
| 151 | Fabrication of Ag/Ag ₃ PO ₄ /TiO ₂ heterostructure photoelectrodes for efficient decomposition of 2-chlorophenol under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9060 | 13 | 138 |
| 150 | Upconversion carbon quantum dots as visible light responsive component for efficient enhancement of photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2017 , 496, 425-433 | 9.3 | 135 |
| 149 | BiFeO ₃ /TiO ₂ nanotube arrays composite electrode: construction, characterization, and enhanced photoelectrochemical properties. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 671-9 | 9.5 | 135 |
| 148 | Hexagonal microspindle of NH ₂ -MIL-101(Fe) metal-organic frameworks with visible-light-induced photocatalytic activity for the degradation of toluene. <i>RSC Advances</i> , 2016 , 6, 4289-4295 | 3.7 | 132 |
| 147 | Shape-controlled fabrication of the porous Co ₃ O ₄ nanoflower clusters for efficient catalytic oxidation of gaseous toluene. <i>Journal of Hazardous Materials</i> , 2012 , 209-210, 385-91 | 12.8 | 125 |
| 146 | In situ capture of active species and oxidation mechanism of RhB and MB dyes over sunlight-driven Ag/Ag ₃ PO ₄ plasmonic nanocatalyst. <i>Applied Catalysis B: Environmental</i> , 2012 , 125, 538-545 | 21.8 | 120 |
| 145 | Ultraviolet-assisted gas sensing: A potential formaldehyde detection approach at room temperature based on zinc oxide nanorods. <i>Sensors and Actuators B: Chemical</i> , 2009 , 136, 80-85 | 8.5 | 114 |
| 144 | Fabrication of Cu ₂ O/TiO ₂ nanotube heterojunction arrays and investigation of its photoelectrochemical behavior. <i>Applied Physics Letters</i> , 2009 , 95, 093108 | 3.4 | 110 |
| 143 | One-step synthesis of flower-like Ag/AgCl/BiOCl composite with enhanced visible-light photocatalytic activity. <i>Catalysis Communications</i> , 2011 , 16, 229-233 | 3.2 | 109 |

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| 142 | Carbon-Rich Nonprecious Metal Single Atom Electrocatalysts for CO ₂ Reduction and Hydrogen Evolution. <i>Small Methods</i> , 2019 , 3, 1900210 | 12.8 | 105 |
| 141 | Improved activity of W-modified MnO _x /TiO ₂ catalysts for the selective catalytic reduction of NO with NH ₃ . <i>Chemical Engineering Journal</i> , 2016 , 288, 216-222 | 14.7 | 104 |
| 140 | Size- and Orientation-Dependent Photovoltaic Properties of ZnO Nanorods. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17136-17145 | 3.8 | 102 |
| 139 | Synthesis and photoinduced charge-transfer properties of a ZnFe ₂ O ₄ -sensitized TiO ₂ nanotube array electrode. <i>Langmuir</i> , 2011 , 27, 3113-20 | 4 | 100 |
| 138 | Photocatalytic degradation of gaseous toluene over ZnAl ₂ O ₄ prepared by different methods: a comparative study. <i>Journal of Hazardous Materials</i> , 2011 , 186, 2089-96 | 12.8 | 96 |
| 137 | Synthesis and optical property of one-dimensional spinel ZnMn ₂ O ₄ nanorods. <i>Nanoscale Research Letters</i> , 2011 , 6, 323 | 5 | 87 |
| 136 | Efficient photocatalytic reduction of aqueous Cr(VI) over flower-like SnIn ₄ S ₈ microspheres under visible light illumination. <i>Journal of Hazardous Materials</i> , 2013 , 244-245, 681-8 | 12.8 | 85 |
| 135 | TiO ₂ nanotube/Ag/AgBr three-component nanojunction for efficient photoconversion. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18067 | | 85 |
| 134 | Capability of novel ZnFe ₂ O ₄ nanotube arrays for visible-light induced degradation of 4-chlorophenol. <i>Chemosphere</i> , 2011 , 82, 581-6 | 8.4 | 83 |
| 133 | A study of the dynamic properties of photo-induced charge carriers at nanoporous TiO ₂ /conductive substrate interfaces by the transient photovoltage technique. <i>Nanotechnology</i> , 2008 , 19, 275707 | 3.4 | 80 |
| 132 | Preparation of AgInS ₂ /TiO ₂ composites for enhanced photocatalytic degradation of gaseous o-dichlorobenzene under visible light. <i>Applied Catalysis B: Environmental</i> , 2016 , 185, 1-10 | 21.8 | 79 |
| 131 | Photocatalytic degradation of gaseous toluene over Ag-doping TiO ₂ nanotube powder prepared by anodization coupled with impregnation method. <i>Chemosphere</i> , 2011 , 83, 674-9 | 8.4 | 77 |
| 130 | Novel phosphorus doped carbon nitride modified TiO ₂ nanotube arrays with improved photoelectrochemical performance. <i>Nanoscale</i> , 2015 , 7, 16282-9 | 7.7 | 76 |
| 129 | Construction of p-n heterojunction Bi ₂ O ₃ /BiVO ₄ nanocomposite with improved photoinduced charge transfer property and enhanced activity in degradation of ortho-dichlorobenzene. <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 259-268 | 21.8 | 76 |
| 128 | Facile and Controllable Modification of 3D In ₂ O ₃ Microflowers with In ₂ S ₃ Nanoflakes for Efficient Photocatalytic Degradation of Gaseous ortho-Dichlorobenzene. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19113-19123 | 3.8 | 75 |
| 127 | Self-templated formation of ZnFe ₂ O ₄ double-shelled hollow microspheres for photocatalytic degradation of gaseous o-dichlorobenzene. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8909-8915 | 13 | 73 |
| 126 | Ultrasensitive quantum dot fluorescence quenching assay for selective detection of mercury ions in drinking water. <i>Scientific Reports</i> , 2014 , 4, 5624 | 4.9 | 73 |
| 125 | Structural and photovoltaic properties of highly ordered ZnFe ₂ O ₄ nanotube arrays fabricated by a facile sol-gel template method. <i>Acta Materialia</i> , 2009 , 57, 2684-2690 | 8.4 | 72 |

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| 124 | Rational Design of ZnFe ₂ O ₄ /In ₂ O ₃ Nanoheterostructures: Efficient Photocatalyst for Gaseous 1,2-Dichlorobenzene Degradation and Mechanistic Insight. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4554-4562 | 8.3 | 70 |
| 123 | Surface photovoltage study of photogenerated charges in ZnO nanorods array grown on ITO. <i>Chemical Physics Letters</i> , 2007 , 434, 96-100 | 2.5 | 69 |
| 122 | Quantum-sized BiVO ₄ modified TiO ₂ microflower composite heterostructures: efficient production of hydroxyl radicals towards visible light-driven degradation of gaseous toluene. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21655-21663 | 13 | 66 |
| 121 | One-pot synthesis of MgFe ₂ O ₄ nanospheres by solvothermal method. <i>Materials Letters</i> , 2013 , 96, 85-88 | 3.3 | 65 |
| 120 | Preparation and Characterization of Polypyrrole/TiO ₂ Coaxial Nanocables. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 430-434 | 4.8 | 63 |
| 119 | Correlations of WO ₃ species and structure with the catalytic performance of the selective oxidation of cyclopentene to glutaraldehyde on WO ₃ /TiO ₂ catalysts. <i>Chemical Engineering Journal</i> , 2010 , 159, 242-246 | 14.7 | 61 |
| 118 | Fabrication of Fe ₂ O ₃ /In ₂ O ₃ composite hollow microspheres: A novel hybrid photocatalyst for toluene degradation under visible light. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 18-26 | 9.3 | 58 |
| 117 | Insight into the mechanism of photocatalytic degradation of gaseous o-dichlorobenzene over flower-type V ₂ O ₅ hollow spheres. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15163-15170 | 13 | 57 |
| 116 | A novel CuTi-containing catalyst derived from hydrotalcite-like compounds for selective catalytic reduction of NO with C ₃ H ₆ under lean-burn conditions. <i>Journal of Catalysis</i> , 2014 , 309, 268-279 | 7.3 | 57 |
| 115 | A facile and highly sensitive probe for Hg(II) based on metal-induced aggregation of ZnSe/ZnS quantum dots. <i>Nanoscale</i> , 2012 , 4, 4996-5001 | 7.7 | 57 |
| 114 | Emerging nanostructured carbon-based non-precious metal electrocatalysts for selective electrochemical CO ₂ reduction to CO. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25191-25202 | 13 | 57 |
| 113 | Fabrication of n-type CuInS ₂ modified TiO ₂ nanotube arrays heterostructure photoelectrode with enhanced photoelectrocatalytic properties. <i>Applied Catalysis B: Environmental</i> , 2014 , 156-157, 362-370 | 21.8 | 55 |
| 112 | Facile synthesis of tube-shaped Mn-Ni-Ti solid solution and preferable Langmuir-Hinshelwood mechanism for selective catalytic reduction of NO _x by NH ₃ . <i>Applied Catalysis A: General</i> , 2018 , 549, 289-301 | 5.1 | 53 |
| 111 | Influence of adsorbed oxygen on the surface photovoltage and photoluminescence of ZnO nanorods. <i>Nanotechnology</i> , 2006 , 17, 2110-2115 | 3.4 | 52 |
| 110 | L-cysteine-modified gold nanostars for SERS-based copper ions detection in aqueous media. <i>Langmuir</i> , 2014 , 30, 13491-7 | 4 | 51 |
| 109 | Large-Scale Synthesis of Necklace-Like Single-Crystalline PbTiO ₃ Nanowires. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 76-80 | 4.8 | 51 |
| 108 | Effect of surface Lewis acidity on selective catalytic reduction of NO by C ₃ H ₆ over calcined hydrotalcite. <i>Applied Catalysis A: General</i> , 2013 , 451, 176-183 | 5.1 | 49 |
| 107 | Synthesis of Bimetallic MOFs MIL-100(Fe-Mn) as an Efficient Catalyst for Selective Catalytic Reduction of NO _x with NH ₃ . <i>Catalysis Letters</i> , 2016 , 146, 1956-1964 | 2.8 | 47 |

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| 106 | Size- and photoelectric characteristics-dependent formaldehyde sensitivity of ZnO irradiated with UV light. <i>Sensors and Actuators B: Chemical</i> , 2010 , 148, 66-73 | 8.5 | 47 |
| 105 | Synthesis, characterization and adsorptive performance of MgFe ₂ O ₄ nanospheres for SO ₂ removal. <i>Journal of Hazardous Materials</i> , 2010 , 184, 704-709 | 12.8 | 47 |
| 104 | Fabrication of metallic charge transfer channel between photoanode Ti/Fe ₂ O ₃ and cocatalyst CoOx: an effective strategy for promoting photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16661-16669 | 13 | 47 |
| 103 | Ultrathin nanoflake-assembled hierarchical BiOBr microflower with highly exposed {001} facets for efficient photocatalytic degradation of gaseous ortho-dichlorobenzene. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119478 | 21.8 | 45 |
| 102 | Facile solvothermal synthesis of MnFe ₂ O ₄ hollow nanospheres and their photocatalytic degradation of benzene investigated by in situ FTIR. <i>Catalysis Communications</i> , 2015 , 68, 11-14 | 3.2 | 44 |
| 101 | Porous Brick-like NiFe ₂ O ₄ nanocrystals loaded with Ag species towards effective degradation of toluene. <i>Chemical Engineering Journal</i> , 2010 , 165, 64-70 | 14.7 | 44 |
| 100 | Water-Plasma Assisted Synthesis of Oxygen-Enriched NiFe Layered Double Hydroxide Nanosheets for Efficient Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4247-4254 | 8.3 | 43 |
| 99 | Polydopamine-assisted decoration of TiO ₂ nanotube arrays with enzyme to construct a novel photoelectrochemical sensing platform. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 133-139 | 8.5 | 43 |
| 98 | Efficient visible light-induced photoelectrocatalytic degradation of rhodamine B by polyaniline-sensitized TiO ₂ nanotube arrays. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 6813-6820 | 2.3 | 43 |
| 97 | Facile preparation of sphere-like copper ferrite nanostructures and their enhanced visible-light-induced photocatalytic conversion of benzene. <i>Materials Research Bulletin</i> , 2013 , 48, 4216-4222 | 5.1 | 39 |
| 96 | Surface photovoltage characterization of an oriented Fe ₂ O ₃ nanorod array. <i>Chemical Physics Letters</i> , 2008 , 459, 159-163 | 2.5 | 39 |
| 95 | The selective catalytic reduction of NO with propene over Cu-supported TiCe mixed oxide catalysts: Promotional effect of ceria. <i>Journal of Molecular Catalysis A</i> , 2013 , 378, 115-123 | | 38 |
| 94 | Construction of Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ modified TiO ₂ nanotube array nanocomposite electrodes and their photoelectrocatalytic performance in the degradation of 2,4-DCP. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6025-6034 | 7.1 | 38 |
| 93 | Photovoltaic properties of a ZnO nanorod array affected by ethanol and liquid-crystalline porphyrin. <i>Nanotechnology</i> , 2008 , 19, 245706 | 3.4 | 38 |
| 92 | Surface photocurrent gas sensor with properties dependent on Ru(dcbpy) ₂ (NCS) ₂ -sensitized ZnO nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2006 , 117, 80-85 | 8.5 | 38 |
| 91 | One-step synthesis and Gd ³⁺ decoration of BiOBr microspheres consisting of nanosheets toward improving photocatalytic reduction of CO ₂ into hydrocarbon fuel. <i>Chemical Engineering Journal</i> , 2020 , 400, 125944 | 14.7 | 36 |
| 90 | High-performance In ₂ O ₃ @PANI core@shell architectures with ultralong charge carriers lifetime for photocatalytic degradation of gaseous 1,2-dichlorobenzene. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118278 | 21.8 | 36 |
| 89 | A new type Ni-MOF catalyst with high stability for selective catalytic reduction of NO _x with NH ₃ . <i>Catalysis Communications</i> , 2018 , 114, 104-108 | 3.2 | 36 |

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| 88 | Low temperature CO oxidation over Ag/SBA-15 nanocomposites prepared via in-situ pH-adjusting method. <i>Catalysis Communications</i> , 2011 , 16, 11-14 | 3.2 | 35 |
| 87 | In-situ synthesis of Ag/SBA-15 nanocomposites by the pH-adjusting method. <i>Materials Letters</i> , 2011 , 65, 1892-1895 | 3.3 | 34 |
| 86 | Combined Spectroscopic and Theoretical Approach to Sulfur-Poisoning on Cu-Supported TiZr Mixed Oxide Catalyst in the Selective Catalytic Reduction of NOx. <i>ACS Catalysis</i> , 2014 , 4, 2426-2436 | 13.1 | 33 |
| 85 | Surface photovoltage properties and photocatalytic activities of nanocrystalline CoFe ₂ O ₄ particles with porous superstructure fabricated by a modified chemical coprecipitation method. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 2147-2155 | 2.3 | 33 |
| 84 | Gold nanostars: Benzyltrimethylammonium chloride-assisted synthesis, plasmon tuning, SERS and catalytic activity. <i>Journal of Colloid and Interface Science</i> , 2016 , 462, 341-50 | 9.3 | 32 |
| 83 | Current Progress of Electrocatalysts for Ammonia Synthesis Through Electrochemical Nitrogen Reduction Under Ambient Conditions. <i>ChemSusChem</i> , 2020 , 13, 3766 | 8.3 | 32 |
| 82 | Triple-shelled NiMnO hollow spheres as an efficient catalyst for low-temperature selective catalytic reduction of NO with NH ₃ . <i>Chemical Communications</i> , 2018 , 54, 9797-9800 | 5.8 | 32 |
| 81 | Facile solution synthesis and characterization of porous cubic-shaped superstructure of ZnAl ₂ O ₄ . <i>Materials Letters</i> , 2011 , 65, 194-197 | 3.3 | 32 |
| 80 | Inorganic-organic photocatalyst BiPO ₄ /g-C ₃ N ₄ for efficient removal of gaseous toluene under visible light irradiation. <i>Catalysis Communications</i> , 2015 , 69, 109-113 | 3.2 | 31 |
| 79 | Photocatalytic performances and activities of Ag-doped CuFe ₂ O ₄ nanoparticles. <i>Materials Research Bulletin</i> , 2013 , 48, 2927-2932 | 5.1 | 31 |
| 78 | Enhanced visible-light induced degradation of benzene on Mg-ferrite/hematite/PANI nanospheres: in situ FTIR investigation. <i>Journal of Hazardous Materials</i> , 2012 , 241-242, 472-7 | 12.8 | 30 |
| 77 | Insight into the mechanism of selective catalytic reduction of NO(x) by propene over the Cu/Ti(0.7)Zr(0.3)O ₂ catalyst by Fourier transform infrared spectroscopy and density functional theory calculations. <i>Environmental Science & Technology</i> , 2013 , 47, 4528-35 | 10.3 | 30 |
| 76 | Facile synthesis of ZnO/Zn ₂ TiO ₄ core/shell nanowires for photocatalytic oxidation of acetone. <i>Journal of Hazardous Materials</i> , 2010 , 184, 864-868 | 12.8 | 30 |
| 75 | The NiAl mixed oxides: The relation between basicity and SO ₂ removal capacity. <i>Separation and Purification Technology</i> , 2011 , 80, 345-350 | 8.3 | 28 |
| 74 | Preparation of PVP/MEH-PPV composite polymer fibers by electrospinning and study of their photoelectronic character. <i>Materials Letters</i> , 2007 , 61, 2159-2163 | 3.3 | 28 |
| 73 | Study of magnetic properties of ZnO nanoparticles codoped with Co and Cu. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 615-621 | 2.3 | 27 |
| 72 | FT-IR study of the photocatalytic degradation of gaseous toluene over UV-irradiated TiO ₂ microballs: enhanced performance by hydrothermal treatment in alkaline solution. <i>Applied Surface Science</i> , 2011 , 257, 4709-4714 | 6.7 | 26 |
| 71 | Cu-BTC metal-organic framework as a novel catalyst for low temperature selective catalytic reduction (SCR) of NO by NH ₃ : Promotional effect of activation temperature. <i>Integrated Ferroelectrics</i> , 2016 , 172, 169-179 | 0.8 | 24 |

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| 70 | Facile fabrication, characterization, and enhanced photoelectrocatalytic degradation performance of highly oriented TiO ₂ nanotube arrays. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 2153-2162 | 2.3 | 24 |
| 69 | TPD and TPSR studies of formaldehyde adsorption and surface reaction activity over Ag/MCM-41 catalysts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 379, 136-142 | 5.1 | 24 |
| 68 | Work function engineering derived all-solid-state Z-scheme semiconductor-metal-semiconductor system towards high-efficiency photocatalytic H ₂ evolution. <i>RSC Advances</i> , 2016 , 6, 66783-66787 | 3.7 | 24 |
| 67 | A NiP modified Ti doped FeO photoanode for efficient solar water oxidation by promoting hole injection. <i>Dalton Transactions</i> , 2017 , 46, 10549-10552 | 4.3 | 23 |
| 66 | Hollow porous zinc cobaltate nanocubes photocatalyst derived from bimetallic zeolitic imidazolate frameworks towards enhanced gaseous toluene degradation. <i>Journal of Colloid and Interface Science</i> , 2018 , 516, 76-85 | 9.3 | 23 |
| 65 | Photocatalytic performances and activities in Ag-doped ZnAl ₂ O ₄ nanorods studied by FTIR spectroscopy. <i>Catalysis Science and Technology</i> , 2013 , 3, 788-796 | 5.5 | 23 |
| 64 | Photocatalytic performances and activities of ZnAl ₂ O ₄ nanorods loaded with Ag towards toluene. <i>Chemical Engineering Journal</i> , 2012 , 203, 43-51 | 14.7 | 23 |
| 63 | 2D Porous graphitic C ₃ N ₄ nanosheets/Ag ₃ PO ₄ nanocomposites for enhanced visible-light photocatalytic degradation of 4-chlorophenol. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1 | 2.3 | 22 |
| 62 | Synthesis of LaVO ₄ /TiO ₂ heterojunction nanotubes by sol-gel coupled with hydrothermal method for photocatalytic air purification. <i>Journal of Colloid and Interface Science</i> , 2012 , 383, 13-8 | 9.3 | 22 |
| 61 | The optical properties of ZnO hexagonal prisms grown from poly (vinylpyrrolidone)-assisted electrochemical assembly onto Si (111) substrate. <i>Journal of Chemical Physics</i> , 2005 , 122, 174703 | 3.9 | 22 |
| 60 | Photocatalytic degradation of gaseous toluene over bcc-In ₂ O ₃ hollow microspheres. <i>Applied Surface Science</i> , 2015 , 337, 27-32 | 6.7 | 21 |
| 59 | Surface photovoltage property of magnesium ferrite/hematite heterostructured hollow nanospheres prepared with one-pot strategy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 403, 35-40 | 5.1 | 21 |
| 58 | Uniform Fe ₂ O ₃ nanotubes fabricated for adsorption and photocatalytic oxidation of naphthalene. <i>Materials Chemistry and Physics</i> , 2011 , 129, 683-687 | 4.4 | 21 |
| 57 | Photocatalytic degradation of gaseous toluene with multiphase Ti(x)Zr(1-x)O ₂ synthesized via co-precipitation route. <i>Journal of Colloid and Interface Science</i> , 2015 , 438, 1-6 | 9.3 | 20 |
| 56 | Enhanced photocatalytic activity of degrading short chain chlorinated paraffins over reduced graphene oxide/CoFe ₂ O ₄ /Ag nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2016 , 479, 89-97 | 9.3 | 20 |
| 55 | Preparation and hydrothermal annealing of pure metastable EMnS thin films by chemical bath deposition (CBD). <i>Materials Research Bulletin</i> , 2011 , 46, 483-486 | 5.1 | 20 |
| 54 | Copper-ion exchanged Ti-pillared clays for selective catalytic reduction of NO by propylene. <i>Chemical Engineering Journal</i> , 2011 , 168, 1128-1133 | 14.7 | 20 |
| 53 | Multifunctional Plasmonic Co-Doped Fe ₂ O ₃ @polydopamine-Au for Adsorption, Photocatalysis, and SERS-based Sensing. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 602-609 | 3.1 | 20 |

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| 52 | Fabrication, characterization, and photocatalytic property of Fe ₂ O ₃ /graphene oxide composite. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1 | 2.3 | 19 |
| 51 | Fe/Mn Mixed Oxide Catalysts Synthesized by One-Step Urea-Precipitation Method for the Selective Catalytic Reduction of NO _x with NH ₃ at Low Temperatures. <i>Catalysis Letters</i> , 2018 , 148, 227-234 | 2.8 | 19 |
| 50 | Photocatalytic degradation of gaseous toluene over hollow spindle-like Fe ₂ O ₃ loaded with Ag. <i>Materials Research Bulletin</i> , 2012 , 47, 1459-1466 | 5.1 | 18 |
| 49 | A novel approach to synthesize ultrasmall Cu doped Zn-In-Se nanocrystal emitters in a colloidal system. <i>Nanoscale</i> , 2014 , 6, 3403-9 | 7.7 | 17 |
| 48 | Structure sensitivity of selective catalytic reduction of NO with propylene over Cu-doped Ti _{0.5} Zr _{0.5} O ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 519-528 | 21.8 | 16 |
| 47 | W/Mn _{1-x} Catalysts Synthesized by a One-Step Urea Co-precipitation Method for Selective Catalytic Reduction of NO _x with NH ₃ at Low Temperatures. <i>Energy & Fuels</i> , 2016 , 30, 1810-1814 | 4.1 | 16 |
| 46 | FTIR study of the photocatalytic degradation of gaseous benzene over UV-irradiated TiO ₂ nanoballs synthesized by hydrothermal treatment in alkaline solution. <i>Materials Research Bulletin</i> , 2010 , 45, 1889-1893 | 5.1 | 16 |
| 45 | Facile solution synthesis and characterization of CaCO ₃ microspheres with urchin-shaped structure. <i>Materials Letters</i> , 2010 , 64, 71-73 | 3.3 | 16 |
| 44 | Acid-treated Ti ⁴⁺ doped hematite photoanode for efficient solar water oxidation: Insight into surface states and charge separation. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 943-951 | 5.7 | 16 |
| 43 | Noble metal-free two dimensional carbon-based electrocatalysts for water splitting. <i>BMC Materials</i> , 2019 , 1, | 6.7 | 15 |
| 42 | AgInS ₂ nanoparticles modified TiO ₂ nanotube array electrodes: Ultrasonic-assisted SILAR preparation and mechanism of enhanced photoelectrocatalytic activity. <i>Molecular Catalysis</i> , 2017 , 442, 97-106 | 3.3 | 14 |
| 41 | Preparation of CuInS ₂ /TiO ₂ nanotube heterojunction arrays electrode and investigation of its photoelectrochemical properties. <i>Materials Research Bulletin</i> , 2014 , 59, 227-233 | 5.1 | 14 |
| 40 | Facile synthesis and characterization of ZnFe ₂ O ₄ /Fe ₂ O ₃ composite hollow nanospheres. <i>Materials Research Bulletin</i> , 2011 , 46, 2235-2239 | 5.1 | 14 |
| 39 | Synthesis, structures and photocatalytic properties of a mononuclear copper complex with pyridine-carboxylate ligands. <i>Inorganic Chemistry Communication</i> , 2010 , 13, 526-528 | 3.1 | 14 |
| 38 | Effects of hydrothermal annealing on characteristics of CuInS ₂ thin films by SILAR method. <i>Applied Surface Science</i> , 2012 , 258, 7465-7469 | 6.7 | 13 |
| 37 | Insight into the photocatalytic mineralization of short chain chlorinated paraffins boosted by polydopamine and Ag nanoparticles. <i>Journal of Hazardous Materials</i> , 2018 , 359, 186-193 | 12.8 | 12 |
| 36 | Fabrication and surface photovoltage study of hematite microparticles with hollow spindle-shaped structure. <i>Applied Surface Science</i> , 2012 , 258, 7099-7104 | 6.7 | 12 |
| 35 | Branch number matters: Promoting catalytic reduction of 4-nitrophenol over gold nanostars by raising the number of branches and coating with mesoporous SiO ₂ . <i>Journal of Colloid and Interface Science</i> , 2016 , 477, 1-7 | 9.3 | 11 |

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| 34 | Rational design and synthesis of highly oriented copper-zinc ferrite QDs/titania NAE nano-heterojunction composites with novel photoelectrochemical and photoelectrocatalytic behaviors. <i>Dalton Transactions</i> , 2018 , 47, 12769-12782 | 4.3 | 11 |
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