# Zhi-Gang Zhu

List of Publications by Year
in descending order

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|---|---|---|---|
| 71 papers | 3,412 citations | 186209 28 h-index | 143943 57 g-index |
| 74 all docs | 74 docs citations | 74 times ranked | 4252 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Advances of Drugs Electroanalysis Based on Direct Electrochemical Redox on Electrodes: A Review. Critical Reviews in Analytical Chemistry, 2024, 54, 269-314. | 1.8 | 1 |
| 2 | Indium-organic framework CPP-3(In) derived Ag/In2O3 porous hexagonal tubes for H2S detection at low temperature. Chinese Chemical Letters, 2022, 33, 551-556. | 4.8 | 8 |
| 3 | Fabrication of Ti3C2Tx/In2O3 nanocomposites for enhanced ammonia sensing at room temperature. Ceramics International, 2022, 48, 6600-6607. | 2.3 | 21 |
| 4 | Ultrasensitive gas sensor based on nanocube In2O3-CNH composite at low operating temperature. Sensors and Actuators B: Chemical, 2022, 354, 131224. | 4.0 | 9 |
| 5 | Enhanced methanol oxidation on PtNi nanoparticles supported on silane-modified reduced graphene oxide. International Journal of Hydrogen Energy, 2022, 47, 6638-6649. | 3.8 | 13 |
| 6 | MoO<sub>3</sub>/TiO<sub>2</sub>/Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> nanocomposite based gas sensors for highly sensitive and selective isopropanol detection at room temperature. Journal of Materials Chemistry A, 2022, 10, 8283-8292. | 5.2 | 54 |
| 7 | Copper Ion Imprinted Hydrogel Photonic Crystal Sensor Film. ACS Applied Polymer Materials, 2022, 4, 4568-4575. | 2.0 | 7 |
| 8 | Cu<sub>2</sub>O/Ti<sub>3</sub>C<sub>2</sub>T <sub>x</sub> nanocomposites for detection of triethylamine gas at room temperature. Nanotechnology, 2022, 33, 415501. | 1.3 | 12 |
| 9 | MnFe2O4/MoS2 nanocomposite as Oxidase-like for electrochemical simultaneous detection of ascorbic acid, dopamine and uric acid. Microchemical Journal, 2022, 181, 107780. | 2.3 | 20 |
| 10 | Hierarchical WS<sub>2</sub>â€“WO<sub>3</sub> Nanohybrids with Pâ€“N Heterojunctions for NO<sub>2</sub> Detection. ACS Applied Nano Materials, 2021, 4, 1626-1634. | 2.4 | 56 |
| 11 | Octahedral Cuprous Oxide Decorated Flexible Reduced Graphene Oxide Paper for Food Sensing Application. Electroanalysis, 2021, 33, 1461-1470. | 1.5 | 4 |
| 12 | Flexible fabric gas sensors based on reduced graphene-polyaniline nanocomposite for highly sensitive NH <sub>3</sub> detection at room temperature. Nanotechnology, 2021, 32, 305501. | 1.3 | 36 |
| 13 | Water-resistant and flexible all-inorganic perovskite nanocrystals films for white light-emitting applications. Journal of Materials Research, 2021, 36, 1835-1845. | 1.2 | 6 |
| 14 | MnFe2O4 nanoparticles-decorated graphene nanosheets used as an efficient peroxidase minic enable the electrochemical detection of hydrogen peroxide with a low detection limit. Microchemical Journal, 2021, 166, 106240. | 2.3 | 15 |
| 15 | Expanding the portfolio of tribo-positive materials: Aniline formaldehyde condensates for high charge density triboelectric nanogenerators. Nano Energy, 2020, 67, 104291. | 8.2 | 26 |
| 16 | Fe3O4/SiO2/CS surface ion-imprinted polymer modified glassy carbon electrode for highly sensitivity and selectivity detection of toxic metal ions. Journal of the Taiwan Institute of Chemical Engineers, 2020, 113, 107-113. | 2.7 | 25 |
| 17 | Improving Stability of Cesium Lead Iodide Perovskite Nanocrystals by Solution Surface Treatments. ACS Omega, 2020, 5, 18013-18020. | 1.6 | 13 |
| 18 | Flexible fabric gas sensors based on PANI/WO3 pâ”n heterojunction for high performance NH3 detection at room temperature. Science China Materials, 2020, 63, 2028-2039. | 3.5 | 50 |

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|---|---|---|---|
| 19 | Impact of heterostructures on hydrogen sulfide sensing: Example of core-shell CuO/CuFe2O4 nanostructures. Sensors and Actuators B: Chemical, 2020, 321, 128523. | 4.0 | 16 |
| 20 | Metal-Organic frameworks-derived bamboo-like CuO/In2O3 Heterostructure for high-performance H2S gas sensor with Low operating temperature. Sensors and Actuators B: Chemical, 2020, 310, 127828. | 4.0 | 140 |
| 21 | Flexible inorganic CsPbI<sub>3</sub> perovskite nanocrystal-PMMA composite films with enhanced stability in air and water for white light-emitting diodes. Nanotechnology, 2020, 31, 225602. | 1.3 | 28 |
| 22 | Low-temperature and highly sensitivity H2S gas sensor based on ZnO/CuO composite derived from bimetal metal-organic frameworks. Ceramics International, 2020, 46, 15858-15866. | 2.3 | 92 |
| 23 | Self-Healable Poly(vinyl alcohol) Photonic Crystal Hydrogel. ACS Applied Polymer Materials, 2020, 2, 2086-2092. | 2.0 | 14 |
| 24 | One-step in situ Controllable Synthesis of MnFe2O4/rGO Nanocomposite and Its Application to Electrochemical Sensing of Hydrogen Peroxide. Sensors and Materials, 2020, 32, 1091. | 0.3 | 5 |
| 25 | Ultrasensitive ciprofloxacin assay based on the use of a fluorescently labeled aptamer and a nanocomposite prepared from carbon nanotubes and MoSe2. Mikrochimica Acta, 2019, 186, 507. | 2.5 | 13 |
| 26 | The enhanced sensing and catalytic activity with polymer-based colloidal photonic crystals. , 2019, , 237-263. | | 0 |
| 27 | Ti<sub>3</sub>C<sub>2</sub> MXene-Based Sensors with High Selectivity for NH<sub>3</sub> Detection at Room Temperature. ACS Sensors, 2019, 4, 2763-2770. | 4.0 | 355 |
| 28 | Applications of Hydrogels with Special Physical Properties in Biomedicine. Polymers, 2019, 11, 1420. | 2.0 | 63 |
| 29 | An ion-imprinted sensor based on chitosan-graphene oxide composite polymer modified glassy carbon electrode for environmental sensing application. Electrochimica Acta, 2019, 317, 93-101. | 2.6 | 65 |
| 30 | Highly sensitive and selective H2S gas sensors based on flower-like WO3/CuO composites operating at low/room temperature. Journal of Alloys and Compounds, 2019, 788, 36-43. | 2.8 | 104 |
| 31 | Application of Electrochemical Aptasensors toward Clinical Diagnostics, Food, and Environmental Monitoring: Review. Sensors, 2019, 19, 5435. | 2.1 | 70 |
| 32 | Ultrathin colloidal crystal layer as transparent photonic films. Micro and Nano Letters, 2019, 14, 1-4. | 0.6 | 38 |
| 33 | A pH-Responsive Molecularly Imprinted Hydrogel for Dexamethasone Release. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 659-666. | 1.9 | 23 |
| 34 | Data Analysis and Accuracy Evaluation of a Continuous Glucose-Monitoring Device. Journal of Sensors, 2019, 2019, 1-8. | 0.6 | 6 |
| 35 | Heterostructure of CuO microspheres modified with CuFe2O4 nanoparticles for highly sensitive H2S gas sensor. Sensors and Actuators B: Chemical, 2018, 264, 139-149. | 4.0 | 103 |
| 36 | Disposable electrochemical aptasensor based on carbon nanotubes- V2O5-chitosan nanocomposite for detection of ciprofloxacin. Sensors and Actuators B: Chemical, 2018, 268, 278-286. | 4.0 | 100 |

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|---|---|---|---|
| 37 | An enhanced Nonenzymatic Electrochemical Glucose Sensor Based on Copperâ€Palladium Nanoparticles Modified Glassy Carbon Electrodes. Electroanalysis, 2018, 30, 1811-1819. | 1.5 | 29 |
| 38 | Emulsion Electrospinning of Polytetrafluoroethylene (PTFE) Nanofibrous Membranes for High-Performance Triboelectric Nanogenerators. ACS Applied Materials & Interfaces, 2018, 10, 5880-5891. | 4.0 | 137 |
| 39 | Control of oleylamine to perovskite ratio in synthesis of MAPbBr3 nanoparticles. Chemical Physics Letters, 2018, 702, 21-25. | 1.2 | 23 |
| 40 | 2D Photonic Crystal Hydrogel Sensor for Tear Glucose Monitoring. ACS Omega, 2018, 3, 3211-3217. | 1.6 | 87 |
| 41 | Free-standing palladium modified reduced graphene oxide paper based on one-pot co-reduction and its sensing application. Chemical Physics Letters, 2018, 712, 71-77. | 1.2 | 12 |
| 42 | Effect of Platinum Doping on the Morphology and Sensing Performance for CuO-Based Gas Sensor. Applied Sciences (Switzerland), 2018, 8, 1091. | 1.3 | 27 |
| 43 | Flexible Hydrogen Peroxide Sensors Based on Platinum Modified Free-Standing Reduced Graphene Oxide Paper. Applied Sciences (Switzerland), 2018, 8, 848. | 1.3 | 19 |
| 44 | A Novel Biomimetic Hydrogen Peroxide Biosensor Based on Pt Flowersâ€decorated Fe<sub>3</sub>O<sub>4</sub>/Graphene Nanocomposite. Electroanalysis, 2017, 29, 1518-1523. | 1.5 | 42 |
| 45 | Highly sensitive H2S gas sensors based on Pd-doped CuO nanoflowers with low operating temperature. Sensors and Actuators B: Chemical, 2017, 253, 809-817. | 4.0 | 115 |
| 46 | A Gelated Colloidal Crystal Attached Lens for Noninvasive Continuous Monitoring of Tear Glucose. Polymers, 2017, 9, 125. | 2.0 | 65 |
| 47 | Current and Emerging Technology for Continuous Glucose Monitoring. Sensors, 2017, 17, 182. | 2.1 | 193 |
| 48 | Preparation and Characterization of Nanoscale Cobalt Blue Pigment for Ceramic Inkjet Printing by Sol-Gel Self-Propagating Combustion. Materials Research, 2017, 20, 1340-1344. | 0.6 | 19 |
| 49 | Surface Properties Contrast between Al Films and TiO2 Films Coated on Magnesium Alloys by Magnetron Sputtering. Materials Research, 2017, 20, 481-486. | 0.6 | 7 |
| 50 | A Comparative Investigation on Various Platinum Nanoparticles Decorated Carbon Supports for Oxygen Reduction Reaction. Current Nanoscience, 2017, 13, 136-148. | 0.7 | 5 |
| 51 | Polymerized Crystalline Colloidal Array Photonic Crystal with Enhanced Mechanical Property. Chemistry Letters, 2015, 44, 1566-1568. | 0.7 | 3 |
| 52 | Facile Preparation and Self-Assembly of Monodisperse Polystyrene Nanospheres for Photonic Crystals. Journal of Nanoscience and Nanotechnology, 2015, 15, 3239-3243. | 0.9 | 25 |
| 53 | Structural, Infrared and Magnetic Properties of Nanosized Ni<sub>x</sub>Zn<sub>1â^'x</sub>Fe<sub>2</sub>O<sub>4</sub> Powders Synthesized by Solâ€“Gel Technique. Journal of Nanoscience and Nanotechnology, 2015, 15, 3182-3186. | 0.9 | 7 |
| 54 | Hydrogel-based photonic crystal materials for sensing application. , 2015, , . | | 0 |

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|---|---|---|---|
| 55 | A composite hydrogels-based photonic crystal multi-sensor. Materials Research Express, 2015, 2, 046201. | 0.8 | 6 |
| 56 | Effects of Ni Deposition on the Electrochemical Properties of CNT/Ni Electrode and Its Application for Glucose Sensing. Journal of Nanoscience and Nanotechnology, 2015, 15, 3196-3199. | 0.9 | 5 |
| 57 | Graphene based silicone thermal greases. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 207-211. | 0.9 | 64 |
| 58 | Enzyme-free glucose biosensor based on low density CNT forest grown directly on a Si/SiO2 substrate. Sensors and Actuators B: Chemical, 2013, 178, 586-592. | 4.0 | 55 |
| 59 | Hysteresis and vertical anisotropy of magnetoresistance in La0.67A0.33MnOz (A=Ca, Sr) polycrystalline films deposited on amorphous quartz substrates. Ceramics International, 2013, 39, 9025-9031. | 2.3 | 3 |
| 60 | Room-temperature remote-plasma sputtering of c-axis oriented zinc oxide thin films. Journal of Applied Physics, 2012, 112, . | 1.1 | 30 |
| 61 | A Critical Review of Glucose Biosensors Based on Carbon Nanomaterials: Carbon Nanotubes and Graphene. Sensors, 2012, 12, 5996-6022. | 2.1 | 451 |
| 62 | Design of carbon nanotube fiber microelectrode for glucose biosensing. Journal of Chemical Technology and Biotechnology, 2012, 87, 256-262. | 1.6 | 46 |
| 63 | AlN-based BAW resonators with CNT electrodes for gravimetric biosensing. Sensors and Actuators B: Chemical, 2011, 160, 1386-1393. | 4.0 | 42 |
| 64 | A soft moulding process for manufacture of net-shape ceramic microcomponents. International Journal of Advanced Manufacturing Technology, 2010, 47, 147-152. | 1.5 | 21 |
| 65 | Nano-yarn carbon nanotube fiber based enzymatic glucose biosensor. Nanotechnology, 2010, 21, 165501. | 1.3 | 92 |
| 66 | The influence of Yb and Nd substituents on high-power piezoelectric properties of PMSâ€“PZT ceramics. Ceramics International, 2008, 34, 2067-2072. | 2.3 | 21 |
| 67 | A net-shape fabrication process of alumina micro-components using a soft lithography technique. Journal of Micromechanics and Microengineering, 2007, 17, 193-198. | 1.5 | 26 |
| 68 | Dielectric and Electrical Conductivity Properties of PMS-PZT Ceramics. Journal of the American Ceramic Society, 2006, 89, 717-719. | 1.9 | 18 |
| 69 | Dielectric relaxation behavior in Pb(Mn1/3Sb2/3)O3â€“Pb(Zr,Ti)O3systems. Smart Materials and Structures, 2006, 15, 1249-1254. | 1.8 | 6 |
| 70 | Pinning and depinning mechanism of defect dipoles in PMnNâ€“PZT ceramics. Journal Physics D: Applied Physics, 2005, 38, 1107-1111. | 1.3 | 75 |
| 71 | Peculiar Hysteresis Loop of Pb(Mn1/3Nb2/3)O3â€“Pb(Ti, Zr)O3Ceramics. Japanese Journal of Applied Physics, 2004, 43, 1458-1463. | 0.8 | 14 |