

# 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	A Critical Review of Glucose Biosensors Based on Carbon Nanomaterials: Carbon Nanotubes and Graphene. <i>Sensors</i> , 2012, 12, 5996-6022.	2.1	451
2	Ti <sub>3</sub> C <sub>2</sub> MXene-Based Sensors with High Selectivity for NH <sub>3</sub> Detection at Room Temperature. <i>ACS Sensors</i> , 2019, 4, 2763-2770.	4.0	355
3	Current and Emerging Technology for Continuous Glucose Monitoring. <i>Sensors</i> , 2017, 17, 182.	2.1	193
4	Metal-Organic frameworks-derived bamboo-like CuO/In <sub>2</sub> O <sub>3</sub> Heterostructure for high-performance H <sub>2</sub> S gas sensor with Low operating temperature. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127828.	4.0	140
5	Emulsion Electrospinning of Polytetrafluoroethylene (PTFE) Nanofibrous Membranes for High-Performance Triboelectric Nanogenerators. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 5880-5891.	4.0	137
6	Highly sensitive H <sub>2</sub> S gas sensors based on Pd-doped CuO nanoflowers with low operating temperature. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 809-817.	4.0	115
7	Highly sensitive and selective H <sub>2</sub> S gas sensors based on flower-like WO <sub>3</sub> /CuO composites operating at low/room temperature. <i>Journal of Alloys and Compounds</i> , 2019, 788, 36-43.	2.8	104
8	Heterostructure of CuO microspheres modified with CuFe <sub>2</sub> O <sub>4</sub> nanoparticles for highly sensitive H <sub>2</sub> S gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 139-149.	4.0	103
9	Disposable electrochemical aptasensor based on carbon nanotubes-V <sub>2</sub> O <sub>5</sub> -chitosan nanocomposite for detection of ciprofloxacin. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 278-286.	4.0	100
10	Nano-yarn carbon nanotube fiber based enzymatic glucose biosensor. <i>Nanotechnology</i> , 2010, 21, 165501.	1.3	92
11	Low-temperature and highly sensitivity H <sub>2</sub> S gas sensor based on ZnO/CuO composite derived from bimetal metal-organic frameworks. <i>Ceramics International</i> , 2020, 46, 15858-15866.	2.3	92
12	2D Photonic Crystal Hydrogel Sensor for Tear Glucose Monitoring. <i>ACS Omega</i> , 2018, 3, 3211-3217.	1.6	87
13	Pinning and depinning mechanism of defect dipoles in PMnN <sub>3</sub> PZT ceramics. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 1107-1111.	1.3	75
14	Application of Electrochemical Aptasensors toward Clinical Diagnostics, Food, and Environmental Monitoring: Review. <i>Sensors</i> , 2019, 19, 5435.	2.1	70
15	A Gelated Colloidal Crystal Attached Lens for Noninvasive Continuous Monitoring of Tear Glucose. <i>Polymers</i> , 2017, 9, 125.	2.0	65
16	An ion-imprinted sensor based on chitosan-graphene oxide composite polymer modified glassy carbon electrode for environmental sensing application. <i>Electrochimica Acta</i> , 2019, 317, 93-101.	2.6	65
17	Graphene based silicone thermal greases. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 207-211.	0.9	64
18	Applications of Hydrogels with Special Physical Properties in Biomedicine. <i>Polymers</i> , 2019, 11, 1420.	2.0	63

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19	Hierarchical WS <sub>2</sub> /WO <sub>3</sub> Nanohybrids with P-N Heterojunctions for NO <sub>2</sub> Detection. ACS Applied Nano Materials, 2021, 4, 1626-1634.	2.4	56
20	Enzyme-free glucose biosensor based on low density CNT forest grown directly on a Si/SiO <sub>2</sub> substrate. Sensors and Actuators B: Chemical, 2013, 178, 586-592.	4.0	55
21	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
22	Flexible fabric gas sensors based on PANI/WO <sub>3</sub> p-n heterojunction for high performance NH <sub>3</sub> detection at room temperature. Science China Materials, 2020, 63, 2028-2039.	3.5	50
23	Design of carbon nanotube fiber microelectrode for glucose biosensing. Journal of Chemical Technology and Biotechnology, 2012, 87, 256-262.	1.6	46
24	AlN-based BAW resonators with CNT electrodes for gravimetric biosensing. Sensors and Actuators B: Chemical, 2011, 160, 1386-1393.	4.0	42
25	A Novel Biomimetic Hydrogen Peroxide Biosensor Based on Pt Flowers-decorated Fe <sub>3</sub> O <sub>4</sub> /Graphene Nanocomposite. Electroanalysis, 2017, 29, 1518-1523.	1.5	42
26	Ultrathin colloidal crystal layer as transparent photonic films. Micro and Nano Letters, 2019, 14, 1-4.	0.6	38
27	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
28	Room-temperature remote-plasma sputtering of c-axis oriented zinc oxide thin films. Journal of Applied Physics, 2012, 112, .	1.1	30
29	An enhanced Nonenzymatic Electrochemical Glucose Sensor Based on Copper-Palladium Nanoparticles Modified Glassy Carbon Electrodes. Electroanalysis, 2018, 30, 1811-1819.	1.5	29
30	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
31	Effect of Platinum Doping on the Morphology and Sensing Performance for CuO-Based Gas Sensor. Applied Sciences (Switzerland), 2018, 8, 1091.	1.3	27
32	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
33	Expanding the portfolio of tribo-positive materials: Aniline formaldehyde condensates for high charge density triboelectric nanogenerators. Nano Energy, 2020, 67, 104291.	8.2	26
34	Facile Preparation and Self-Assembly of Monodisperse Polystyrene Nanospheres for Photonic Crystals. Journal of Nanoscience and Nanotechnology, 2015, 15, 3239-3243.	0.9	25
35	Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> /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
36	Control of oleylamine to perovskite ratio in synthesis of MAPbBr <sub>3</sub> nanoparticles. Chemical Physics Letters, 2018, 702, 21-25.	1.2	23

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37	A pH-Responsive Molecularly Imprinted Hydrogel for Dexamethasone Release. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 659-666.	1.9	23
38	The influence of Yb and Nd substituents on high-power piezoelectric properties of PMS/PZT ceramics. <i>Ceramics International</i> , 2008, 34, 2067-2072.	2.3	21
39	A soft moulding process for manufacture of net-shape ceramic microcomponents. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 47, 147-152.	1.5	21
40	Fabrication of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /In <sub>2</sub> O <sub>3</sub> nanocomposites for enhanced ammonia sensing at room temperature. <i>Ceramics International</i> , 2022, 48, 6600-6607.	2.3	21
41	MnFe <sub>2</sub> O <sub>4</sub> /MoS <sub>2</sub> nanocomposite as Oxidase-like for electrochemical simultaneous detection of ascorbic acid, dopamine and uric acid. <i>Microchemical Journal</i> , 2022, 181, 107780.	2.3	20
42	Preparation and Characterization of Nanoscale Cobalt Blue Pigment for Ceramic Inkjet Printing by Sol-Gel Self-Propagating Combustion. <i>Materials Research</i> , 2017, 20, 1340-1344.	0.6	19
43	Flexible Hydrogen Peroxide Sensors Based on Platinum Modified Free-Standing Reduced Graphene Oxide Paper. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 848.	1.3	19
44	Dielectric and Electrical Conductivity Properties of PMS-PZT Ceramics. <i>Journal of the American Ceramic Society</i> , 2006, 89, 717-719.	1.9	18
45	Impact of heterostructures on hydrogen sulfide sensing: Example of core-shell CuO/CuFe <sub>2</sub> O <sub>4</sub> nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128523.	4.0	16
46	MnFe <sub>2</sub> O <sub>4</sub> nanoparticles-decorated graphene nanosheets used as an efficient peroxidase mimic enable the electrochemical detection of hydrogen peroxide with a low detection limit. <i>Microchemical Journal</i> , 2021, 166, 106240.	2.3	15
47	Peculiar Hysteresis Loop of Pb(Mn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> /Pb(Ti, Zr)O <sub>3</sub> Ceramics. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 1458-1463.	0.8	14
48	Self-Healable Poly(vinyl alcohol) Photonic Crystal Hydrogel. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2086-2092.	2.0	14
49	Ultrasensitive ciprofloxacin assay based on the use of a fluorescently labeled aptamer and a nanocomposite prepared from carbon nanotubes and MoSe <sub>2</sub> . <i>Mikrochimica Acta</i> , 2019, 186, 507.	2.5	13
50	Improving Stability of Cesium Lead Iodide Perovskite Nanocrystals by Solution Surface Treatments. <i>ACS Omega</i> , 2020, 5, 18013-18020.	1.6	13
51	Enhanced methanol oxidation on PtNi nanoparticles supported on silane-modified reduced graphene oxide. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 6638-6649.	3.8	13
52	Free-standing palladium modified reduced graphene oxide paper based on one-pot co-reduction and its sensing application. <i>Chemical Physics Letters</i> , 2018, 712, 71-77.	1.2	12
53	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. <i>Nanotechnology</i> , 2022, 33, 415501.	1.3	12
54	Ultrasensitive gas sensor based on nanocube In <sub>2</sub> O <sub>3</sub> -CNH composite at low operating temperature. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131224.	4.0	9

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55	Indium-organic framework CPP-3(In) derived Ag/In <sub>2</sub> O <sub>3</sub> porous hexagonal tubes for H <sub>2</sub> S detection at low temperature. Chinese Chemical Letters, 2022, 33, 551-556.	4.8	8
56	Structural, Infrared and Magnetic Properties of Nanosized Ni <sub>x</sub> Zn <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> Powders Synthesized by Sol-Gel Technique. Journal of Nanoscience and Nanotechnology, 2015, 15, 3182-3186.	0.9	7
57	Surface Properties Contrast between Al Films and TiO <sub>2</sub> Films Coated on Magnesium Alloys by Magnetron Sputtering. Materials Research, 2017, 20, 481-486.	0.6	7
58	Copper Ion Imprinted Hydrogel Photonic Crystal Sensor Film. ACS Applied Polymer Materials, 2022, 4, 4568-4575.	2.0	7
59	Dielectric relaxation behavior in Pb(Mn <sub>1/3</sub> Sb <sub>2/3</sub> )O <sub>3</sub> -Pb(Zr,Ti)O <sub>3</sub> systems. Smart Materials and Structures, 2006, 15, 1249-1254.	1.8	6
60	A composite hydrogels-based photonic crystal multi-sensor. Materials Research Express, 2015, 2, 046201.	0.8	6
61	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
62	Data Analysis and Accuracy Evaluation of a Continuous Glucose-Monitoring Device. Journal of Sensors, 2019, 2019, 1-8.	0.6	6
63	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
64	A Comparative Investigation on Various Platinum Nanoparticles Decorated Carbon Supports for Oxygen Reduction Reaction. Current Nanoscience, 2017, 13, 136-148.	0.7	5
65	One-step in situ Controllable Synthesis of MnFe <sub>2</sub> O <sub>4</sub> /rGO Nanocomposite and Its Application to Electrochemical Sensing of Hydrogen Peroxide. Sensors and Materials, 2020, 32, 1091.	0.3	5
66	Octahedral Cuprous Oxide Decorated Flexible Reduced Graphene Oxide Paper for Food Sensing Application. Electroanalysis, 2021, 33, 1461-1470.	1.5	4
67	Hysteresis and vertical anisotropy of magnetoresistance in La <sub>0.67</sub> A <sub>0.33</sub> MnO <sub>3</sub> (A=Ca, Sr) polycrystalline films deposited on amorphous quartz substrates. Ceramics International, 2013, 39, 9025-9031.	2.3	3
68	Polymerized Crystalline Colloidal Array Photonic Crystal with Enhanced Mechanical Property. Chemistry Letters, 2015, 44, 1566-1568.	0.7	3
69	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
70	Hydrogel-based photonic crystal materials for sensing application. , 2015, , .		0
71	The enhanced sensing and catalytic activity with polymer-based colloidal photonic crystals. , 2019, , 237-263.		0