

# Zheng Guo

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5185762/publications.pdf>

Version: 2024-02-01

50  
papers

2,199  
citations

218677

26  
h-index

214800

47  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2967  
citing authors

#	ARTICLE	IF	CITATIONS
1	Porous Pb-Doped ZnO Nanobelts with Enriched Oxygen Vacancies: Preparation and Their Chemiresistive Sensing Performance. <i>Chemosensors</i> , 2022, 10, 96.	3.6	9
2	SnO <sub>2</sub> Nanostructures Exposed with Various Crystal Facets for Temperature-Modulated Sensing of Volatile Organic Compounds. <i>ACS Applied Nano Materials</i> , 2022, 5, 10636-10644.	5.0	12
3	Polyoxometalate-assisted in situ growth of ZnMoO <sub>4</sub> on ZnO nanofibers for the selective detection of ppb-level acetone. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132354.	7.8	8
4	Ag nanoparticles anchored onto porous CuO nanobelts for the ultrasensitive electrochemical detection of dopamine in human serum. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128878.	7.8	68
5	Cation-exchange synthesis of PbSe/ZnSe hetero-nanobelts with enhanced near-infrared photoelectronic performance. <i>Nanotechnology</i> , 2021, 32, 335504.	2.6	2
6	Selectively enhanced gas-sensing performance to n-butanol based on uniform CdO-decorated porous ZnO nanobelts. <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129667.	7.8	18
7	PEGylated AdipoRon derivatives improve glucose and lipid metabolism under insulinopenic and high-fat diet conditions. <i>Journal of Lipid Research</i> , 2021, 62, 100095.	4.2	13
8	A Temperature-Modulated Gas Sensor Based on CdO-Decorated Porous ZnO Nanobelts for the Recognizable Detection of Ethanol, Propanol, and Isopropanol. <i>IEEE Sensors Journal</i> , 2021, 21, 25590-25596.	4.7	12
9	Framework-derived Fe <sub>2</sub> O <sub>3</sub> /Mn <sub>3</sub> O <sub>4</sub> nanocubes as electrochemical catalyst for simultaneous analysis of Cu(II) and Hg(II). <i>Electrochimica Acta</i> , 2021, 399, 139412.	5.2	10
10	Porous CuO nanobelts assembly film for nonenzymatic electrochemical determination of glucose with High fabrication repeatability and sensing stability. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127639.	7.8	36
11	Regulation of intrinsic physicochemical properties of metal oxide nanomaterials for energy conversion and environmental detection applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17326-17359.	10.3	33
12	A direct Z-scheme ZnS/Co <sub>9</sub> S <sub>8</sub> heterojunction-based photoelectrochemical sensor for the highly sensitive and selective detection of chlorpyrifos. <i>Environmental Science: Nano</i> , 2020, 7, 753-763.	4.3	26
13	Cation-exchange strategy for a colorimetric paper sensor: Belt-like ZnSe nanoframes toward visual determination of heavy metal ions. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 128013.	7.8	17
14	Enhanced chemiresistive sensing performance of well-defined porous CuO-doped ZnO nanobelts toward VOCs. <i>Nanoscale Advances</i> , 2019, 1, 3900-3908.	4.6	14
15	Electrochemical monitoring of persistent toxic substances using metal oxide and its composite nanomaterials: Design, preparation, and application. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 119, 115636.	11.4	44
16	Porous Single-Crystalline CdSe Nanobelts: Cation-Exchange Synthesis and Highly Selective Photoelectric Sensing toward Cu <sup>2+</sup> . <i>Chemistry - A European Journal</i> , 2018, 24, 9877-9883.	3.3	16
17	Surface Fe(II)/Fe(III) Cycle Promoted Ultra-Highly Sensitive Electrochemical Sensing of Arsenic(III) with Dumbbell-Like Au/Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. <i>Analytical Chemistry</i> , 2018, 90, 4569-4577.	6.5	105
18	Noble-Metal-Free Co <sub>0.6</sub> Fe <sub>2.4</sub> O <sub>4</sub> Nanocubes Self-Assembly Monolayer for Highly Sensitive Electrochemical Detection of As(III) Based on Surface Defects. <i>Analytical Chemistry</i> , 2018, 90, 1263-1272.	6.5	66

#	ARTICLE	IF	CITATIONS
19	Cation-Exchange Synthesis of Cu <sub>2</sub> Se Nanobelts and Thermal Conversion to Porous CuO Nanobelts with Highly Selective Sensing toward H <sub>2</sub> S. ACS Applied Nano Materials, 2018, 1, 245-253.	5.0	25
20	Insights into diverse performance for the electroanalysis of Pb(II) on Fe <sub>2</sub> O <sub>3</sub> nanorods and hollow nanocubes: Toward analysis of adsorption sites. Electrochimica Acta, 2018, 288, 42-51.	5.2	34
21	Size-tunable Ag nanoparticles sensitized porous ZnO nanobelts: controllably partial cation-exchange synthesis and selective sensing toward acetic acid. Nanotechnology, 2018, 29, 445501.	2.6	14
22	In Situ Underwater Laser-Induced Breakdown Spectroscopy Analysis for Trace Cr(VI) in Aqueous Solution Supported by Electrosorption Enrichment and a Gas-Assisted Localized Liquid Discharge Apparatus. Analytical Chemistry, 2017, 89, 5557-5564.	6.5	35
23	Competitive adsorption behavior toward metal ions on nano-Fe/Mg/Ni ternary layered double hydroxide proved by XPS: Evidence of selective and sensitive detection of Pb(II). Journal of Hazardous Materials, 2017, 338, 1-10.	12.4	72
24	A simplified electrochemical instrument equipped with automated flow-injection system and network communication technology for remote online monitoring of heavy metal ions. Journal of Electroanalytical Chemistry, 2017, 791, 49-55.	3.8	21
25	Hierarchical Morphology-Dependent Gas-Sensing Performances of Three-Dimensional SnO <sub>2</sub> Nanostructures. ACS Sensors, 2017, 2, 102-110.	7.8	138
26	Functionalized porous Si nanowires for selective and simultaneous electrochemical detection of Cd(II) and Pb(II) ions. Electrochimica Acta, 2016, 211, 998-1005.	5.2	55
27	Porous and single-crystalline ZnO nanobelts: fabrication with annealing precursor nanobelts, and gas-sensing and optoelectronic performance. Nanotechnology, 2016, 27, 355702.	2.6	32
28	Electrochemical Detection of Trace Arsenic(III) by Nanocomposite of Nanorod-Like $\text{I}^{\pm}\text{-MnO}_2$ Decorated with $\sim 45$ nm Au Nanoparticles: Considering the Change of Arsenic Speciation. Analytical Chemistry, 2016, 88, 9720-9728.	6.5	98
29	An atomically thick titanium phosphate thin layer with enhancing electrochemical sensitivity toward Pb(II). RSC Advances, 2016, 6, 72975-72984.	3.6	11
30	Tunable nanogap devices for ultra-sensitive electrochemical impedance biosensing. Analytica Chimica Acta, 2016, 905, 58-65.	5.4	9
31	Adsorbent Assisted <i>In Situ</i> Electrocatalysis: An Ultra-Sensitive Detection of As(III) in Water at Fe <sub>3</sub> O <sub>4</sub> Nanosphere Densely Decorated with Au Nanoparticles. Analytical Chemistry, 2016, 88, 1154-1161.	6.5	90
32	Organic Pollutants: A Versatile Environmental Impedimetric Sensor for Ultrasensitive Determination of Persistent Organic Pollutants (POPs) and Highly Toxic Inorganic Ions (Adv. Sci. 5/2015). Advanced Science, 2015, 2, .	11.2	0
33	Cation Exchange Synthesis and Unusual Resistive Switching Behaviors of Ag <sub>2</sub> Se Nanobelts. Small, 2015, 11, 6285-6294.	10.0	26
34	Ag-decorated ultra-thin porous single-crystalline ZnO nanosheets prepared by sunlight induced solvent reduction and their highly sensitive detection of ethanol. Sensors and Actuators B: Chemical, 2015, 209, 975-982.	7.8	87
35	Ultrasensitive and Ultraspecific Impedimetric Detection of Cr(VI) Using Crown Ethers as High-Affinity Targeting Receptors. Analytical Chemistry, 2015, 87, 1991-1998.	6.5	61
36	New Strategy for Rapid Detection of the Simulants of Persistent Organic Pollutants Using Gas Sensor Based on 3-D Porous Single-Crystalline ZnO Nanosheets. IEEE Sensors Journal, 2015, 15, 3668-3674.	4.7	12

#	ARTICLE	IF	CITATIONS
37	Electroadsorption-Assisted Direct Determination of Trace Arsenic without Interference Using Transmission X-ray Fluorescence Spectroscopy. <i>Analytical Chemistry</i> , 2015, 87, 8503-8509.	6.5	18
38	Flower-like hierarchical structures consisting of porous single-crystalline ZnO nanosheets and their gas sensing properties to volatile organic compounds (VOCs). <i>Journal of Alloys and Compounds</i> , 2015, 626, 124-130.	5.5	99
39	A molecular-gap device for specific determination of mercury ions. <i>Scientific Reports</i> , 2013, 3, 3115.	3.3	24
40	Hydroxylation/carbonylation carbonaceous microspheres: A route without the need for an external functionalization to a $\mu$ -hunter of lead(II) for electrochemical detection. <i>Electrochimica Acta</i> , 2013, 87, 46-52.	5.2	17
41	Sensitive and selective electrochemical detection of dopamine using an electrode modified with carboxylated carbonaceous spheres. <i>Analyst</i> , 2013, 138, 2683.	3.5	70
42	A pH sensor with a double-gate silicon nanowire field-effect transistor. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	46
43	Transport Phenomena and Conduction Mechanism of Individual Cross-junction $\text{SnO}_2$ Nanobelts. <i>Small</i> , 2013, 9, 2678-2683.	10.0	6
44	Effects of the oxygen vacancy concentration in InGaZnO-based resistance random access memory. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	55
45	Hollow CuO nanospheres uniformly anchored on porous Si nanowires: preparation and their potential use as electrochemical sensors. <i>Nanoscale</i> , 2012, 4, 7525.	5.6	55
46	T-shaped $\text{SnO}_2$ nanowire current splitter. <i>Materials Today</i> , 2011, 14, 42-49.	14.2	5
47	Templating Synthesis of $\text{SnO}_2$ Nanotubes Loaded with $\text{Ag}_2\text{O}$ Nanoparticles and Their Enhanced Gas Sensing Properties. <i>Advanced Functional Materials</i> , 2011, 21, 2049-2056.	14.9	130
48	Novel porous single-crystalline ZnO nanosheets fabricated by annealing $\text{ZnS}(\text{en})_{0.5}$ ( $\text{en} = \text{Tj ETQq0 0 0 rgBT /Overlock 10 T$ ). <i>Nanotechnology</i> , 2009, 20, 125501.	2.6	137
49	Template synthesis, organic gas-sensing and optical properties of hollow and porous $\text{In}_2\text{O}_3$ nanospheres. <i>Nanotechnology</i> , 2008, 19, 345704.	2.6	106
50	Highly porous CdO nanowires: preparation based on hydroxy- and carbonate-containing cadmium compound precursor nanowires, gas sensing and optical properties. <i>Nanotechnology</i> , 2008, 19, 245611.	2.6	102