Zheng Guo

List of Publications by Year
in descending order

50	2,199	218677	214800
papers	citations	26	47
		h-index	g-index

50	50	50	2967
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hierarchical Morphology-Dependent Gas-Sensing Performances of Three-Dimensional SnO_2 Nanostructures. ACS Sensors, 2017, 2, 102-110.	7.8	138
2	Novel porous single-crystalline ZnO nanosheets fabricated by annealing $ZnS(en)_{0.5}$ (en =) Tj ETQq0 0 0 rgBT /Overlock 10 T Nanotechnology, 2009, 20, 125501.	2.6	137
3	Templating Synthesis of SnO_2 Nanotubes Loaded with Ag_2O Nanoparticles and Their Enhanced Gas Sensing Properties. Advanced Functional Materials, 2011, 21, 2049-2056.	14.9	130
4	Template synthesis, organic gas-sensing and optical properties of hollow and porous In_2O_3 nanospheres. Nanotechnology, 2008, 19, 345704.	2.6	106
5	Surface Fe(II)/Fe(III) Cycle Promoted Ultra-Highly Sensitive Electrochemical Sensing of Arsenic(III) with Dumbbell-Like Au/Fe_3O_4 Nanoparticles. Analytical Chemistry, 2018, 90, 4569-4577.	6.5	105
6	Highly porous CdO nanowires: preparation based on hydroxy- and carbonate-containing cadmium compound precursor nanowires, gas sensing and optical properties. Nanotechnology, 2008, 19, 245611.	2.6	102
7	Flower-like hierarchical structures consisting of porous single-crystalline ZnO nanosheets and their gas sensing properties to volatile organic compounds (VOCs). Journal of Alloys and Compounds, 2015, 626, 124-130.	5.5	99
8	Electrochemical Detection of Trace Arsenic(III) by Nanocomposite of Nanorod-Like α-MnO_2 Decorated with ∼5 nm Au Nanoparticles: Considering the Change of Arsenic Speciation. Analytical Chemistry, 2016, 88, 9720-9728.	6.5	98
9	Adsorbent Assisted *in Situ* Electrocatalysis: An Ultra-Sensitive Detection of As(III) in Water at Fe_3O_4 Nanosphere Densely Decorated with Au Nanoparticles. Analytical Chemistry, 2016, 88, 1154-1161.	6.5	90
10	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
11	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
12	Sensitive and selective electrochemical detection of dopamine using an electrode modified with carboxylated carbonaceous spheres. Analyst, The, 2013, 138, 2683.	3.5	70
13	Ag nanoparticles anchored onto porous CuO nanobelts for the ultrasensitive electrochemical detection of dopamine in human serum. Sensors and Actuators B: Chemical, 2021, 327, 128878.	7.8	68
14	Noble-Metal-Free $Co_{0.6}Fe_{2.4}O_4$ Nanocubes Self-Assembly Monolayer for Highly Sensitive Electrochemical Detection of As(III) Based on Surface Defects. Analytical Chemistry, 2018, 90, 1263-1272.	6.5	66
15	Ultrasensitive and Ultraselective Impedimetric Detection of Cr(VI) Using Crown Ethers as High-Affinity Targeting Receptors. Analytical Chemistry, 2015, 87, 1991-1998.	6.5	61
16	Effects of the oxygen vacancy concentration in InGaZnO-based resistance random access memory. Applied Physics Letters, 2012, 101, .	3.3	55
17	Hollow CuO nanospheres uniformly anchored on porous Si nanowires: preparation and their potential use as electrochemical sensors. Nanoscale, 2012, 4, 7525.	5.6	55
18	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

#	Article	IF	Citations
19	A pH sensor with a double-gate silicon nanowire field-effect transistor. Applied Physics Letters, 2013, 102, .	3.3	46
20	Electrochemical monitoring of persistent toxic substances using metal oxide and its composite nanomaterials: Design, preparation, and application. TrAC - Trends in Analytical Chemistry, 2019, 119, 115636.	11.4	44
21	Porous CuO nanobelts assembly film for nonenzymatic electrochemical determination of glucose with High fabrication repeatability and sensing stability. Sensors and Actuators B: Chemical, 2020, 307, 127639.	7.8	36
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	Insights into diverse performance for the electroanalysis of Pb(II) on Fe_2O_3 nanorods and hollow nanocubes: Toward analysis of adsorption sites. Electrochimica Acta, 2018, 288, 42-51.	5.2	34
24	Regulation of intrinsic physicochemical properties of metal oxide nanomaterials for energy conversion and environmental detection applications. Journal of Materials Chemistry A, 2020, 8, 17326-17359.	10.3	33
25	Porous and single-crystalline ZnO nanobelts: fabrication with annealing precursor nanobelts, and gas-sensing and optoelectronic performance. Nanotechnology, 2016, 27, 355702.	2.6	32
26	Cation Exchange Synthesis and Unusual Resistive Switching Behaviors of Ag_2Se Nanobelts. Small, 2015, 11, 6285-6294.	10.0	26
27	A direct Z-scheme ZnS/Co_9S_8 heterojunction-based photoelectrochemical sensor for the highly sensitive and selective detection of chlorpyrifos. Environmental Science: Nano, 2020, 7, 753-763.	4.3	26
28	Cation-Exchange Synthesis of Cu_2Se Nanobelts and Thermal Conversion to Porous CuO Nanobelts with Highly Selective Sensing toward H_2S. ACS Applied Nano Materials, 2018, 1, 245-253.	5.0	25
29	A molecular-gap device for specific determination of mercury ions. Scientific Reports, 2013, 3, 3115.	3.3	24
30	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
31	Electroadsorption-Assisted Direct Determination of Trace Arsenic without Interference Using Transmission X-ray Fluorescence Spectroscopy. Analytical Chemistry, 2015, 87, 8503-8509.	6.5	18
32	Selectively enhanced gas-sensing performance to n-butanol based on uniform CdO-decorated porous ZnO nanobelts. Sensors and Actuators B: Chemical, 2021, 334, 129667.	7.8	18
33	Hydroxylation/carbonylation carbonaceous microspheres: A route without the need for an external functionalization to a â€œhunterâ€•of lead(II) for electrochemical detection. Electrochimica Acta, 2013, 87, 46-52.	5.2	17
34	Cation-exchange strategy for a colorimetric paper sensor: Belt-like ZnSe nanoframes toward visual determination of heavy metal ions. Sensors and Actuators B: Chemical, 2020, 312, 128013.	7.8	17
35	Porous Singleâ€Crystalline CdSe Nanobelts: Cationâ€Exchange Synthesis and Highly Selective Photoelectric Sensing toward Cu^{2+}. Chemistry - A European Journal, 2018, 24, 9877-9883.	3.3	16
36	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

#	ARTICLE	IF	CITATIONS
37	Enhanced chemiresistive sensing performance of well-defined porous CuO-doped ZnO nanobelts toward VOCs. Nanoscale Advances, 2019, 1, 3900-3908.	4.6	14
38	PEGylated AdipoRon derivatives improve glucose and lipid metabolism under insulinopenic and high-fat diet conditions. Journal of Lipid Research, 2021, 62, 100095.	4.2	13
39	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
40	A Temperature-Modulated Gas Sensor Based on CdO-Decorated Porous ZnO Nanobelts for the Recognizable Detection of Ethanol, Propanol, and Isopropanol. IEEE Sensors Journal, 2021, 21, 25590-25596.	4.7	12
41	SnO_2 Nanostructures Exposed with Various Crystal Facets for Temperature-Modulated Sensing of Volatile Organic Compounds. ACS Applied Nano Materials, 2022, 5, 10636-10644.	5.0	12
42	An atomically thick titanium phosphate thin layer with enhancing electrochemical sensitivity toward Pb(ii). RSC Advances, 2016, 6, 72975-72984.	3.6	11
43	Framework-derived $Fe2O3/Mn3O4$ nanocubes as electrochemical catalyst for simultaneous analysis of Cu(II) and Hg(II). Electrochimica Acta, 2021, 399, 139412.	5.2	10
44	Tunable nanogap devices for ultra-sensitive electrochemical impedance biosensing. Analytica Chimica Acta, 2016, 905, 58-65.	5.4	9
45	Porous Pb-Doped ZnO Nanobelts with Enriched Oxygen Vacancies: Preparation and Their Chemiresistive Sensing Performance. Chemosensors, 2022, 10, 96.	3.6	9
46	Polyoxometalate-assisted in situ growth of ZnMoO4 on ZnO nanofibers for the selective detection of ppb-level acetone. Sensors and Actuators B: Chemical, 2022, 369, 132354.	7.8	8
47	Transport Phenomena and Conduction Mechanism of Individual Cross-Junction SnO_2 Nanobelts. Small, 2013, 9, 2678-2683.	10.0	6
48	T-shaped SnO2 nanowire current splitter. Materials Today, 2011, 14, 42-49.	14.2	5
49	Cation-exchange synthesis of PbSe/ZnSe hetero-nanobelts with enhanced near-infrared photoelectronic performance. Nanotechnology, 2021, 32, 335504.	2.6	2
50	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