Zhihua Wang

List of Publications by Year
in descending order

57 papers	3,141 citations	136950 32 h-index	155660 55 g-index
57 all docs	57 docs citations	57 times ranked	3517 citing authors

#	Article	IF	Citations
1	Insights into the effect of Au particle size on triethylamine sensing properties based on a Au–ZnO nanoflower sensor. Journal of Materials Chemistry C, 2022, 10, 3318-3328.	5.5	15
2	Atomically Dispersed Pt on Three-Dimensional Ordered Macroporous SnO_2 for Highly Sensitive and Highly Selective Detection of Triethylamine at a Low Working Temperature. ACS Applied Materials & Interfaces, 2022, 14, 13440-13449.	8.0	14
3	Selective Catalytic Oxidation of Methane to Methanol in Aqueous Medium over Copper Cations Promoted by Atomically Dispersed Rhodium on TiO_2. Angewandte Chemie - International Edition, 2022, 61, e202201540.	13.8	29
4	Humidity-Independent, Highly Sensitive and Selective NO_2 Sensor Based on In_2O_3 Nanoflowers Decorated With Graphite Nanoflakes. IEEE Sensors Journal, 2022, 22, 14753-14761.	4.7	5
5	Bifunctional Bi12O17Cl2/MIL-100(Fe) composites toward photocatalytic Cr(VI) sequestration and activation of persulfate for bisphenol A degradation. Science of the Total Environment, 2021, 752, 141901.	8.0	175
6	Highly Stable and Conductive Multicationic Poly(biphenyl indole) with Extender Side Chains for Anion Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2021, 4, 6154-6165.	5.1	47
7	Construction of direct Z-scheme Bi5O7I/UiO-66-NH2 heterojunction photocatalysts for enhanced degradation of ciprofloxacin: Mechanism insight, pathway analysis and toxicity evaluation. Journal of Hazardous Materials, 2021, 419, 126466.	12.4	169
8	Elastic and durable multi‐cation‐crosslinked anion exchange membrane based on poly(styrene‐*b*‐(ethylene‐*co*‐butylene)‐*b*‐styrene). Journal of Polymer Science, 2020, 58, 2181-2196.	3.8	34
9	Atomically Dispersed Au on In_2O_3 Nanosheets for Highly Sensitive and Selective Detection of Formaldehyde. ACS Sensors, 2020, 5, 2611-2619.	7.8	67
10	α-Fe2O3/NiO heterojunction nanorods with enhanced gas sensing performance for acetone. Sensors and Actuators B: Chemical, 2020, 318, 128191.	7.8	65
11	Au-modified three-dimensionally ordered macroporous ZnO:In for high-performance ethanol sensors. Journal of Materials Chemistry C, 2020, 8, 2812-2819.	5.5	28
12	Atomically dispersed Pt on 3DOM WO3 promoted with cobalt and nickel oxides for highly selective and highly sensitive detection of xylene. Sensors and Actuators B: Chemical, 2019, 297, 126772.	7.8	21
13	Atomically dispersed Pt (II) on WO3 for highly selective sensing and catalytic oxidation of triethylamine. Applied Catalysis B: Environmental, 2019, 256, 117809.	20.2	103
14	Facile synthesis of In 2 O 3 nanoparticles with high response to formaldehyde at low temperature. International Journal of Applied Ceramic Technology, 2019, 16, 1570-1580.	2.1	13
15	Competitive adsorption on gold nanoparticles for human papillomavirus 16 L1 protein detection by LDI-MS. Analyst, The, 2019, 144, 6641-6646.	3.5	9
16	Pd loading induced excellent NO 2 gas sensing of 3DOM In 2 O 3 at room temperature. Sensors and Actuators B: Chemical, 2018, 263, 218-228.	7.8	90
17	Highly sensitive NO2 gas sensor of ppb-level detection based on In2O3 nanobricks at low temperature. Sensors and Actuators B: Chemical, 2018, 262, 655-663.	7.8	151
18	Humidity-Sensing Performance of 3DOM WO_3 with Controllable Structural Modification. ACS Applied Materials & Interfaces, 2018, 10, 3776-3783.	8.0	45

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19	One-Step Synthesis of Co-Doped In_2O_3 Nanorods for High Response of Formaldehyde Sensor at Low Temperature. ACS Sensors, 2018, 3, 468-475.	7.8	199
20	Manipulating the Defect Structure (V_O) of In_2O_3 Nanoparticles for Enhancement of Formaldehyde Detection. ACS Applied Materials & Interfaces, 2018, 10, 933-942.	8.0	146
21	Sensitization of Pd loading for remarkably enhanced hydrogen sensing performance of 3DOM WO3. Sensors and Actuators B: Chemical, 2018, 262, 577-587.	7.8	58
22	Mass Spectrometry Genotyping of Human Papillomavirus Based on High-Efficiency Selective Enrichment of Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 41178-41184.	8.0	14
23	Cobalt oxide nanorods with special pore structure for enhanced ethanol sensing performance. Journal of Colloid and Interface Science, 2018, 531, 320-330.	9.4	32
24	Photocatalytic degradation of DOM in urban stormwater runoff with TiO2 nanoparticles under UV light irradiation: EEM-PARAFAC analysis and influence of co-existing inorganic ions. Environmental Pollution, 2018, 243, 177-188.	7.5	53
25	Enhanced acetone sensing performance of Au nanoparticle modified porous tube-like ZnO derived from rod-like ZIF-L. Dalton Transactions, 2018, 47, 9014-9020.	3.3	35
26	Electron compensation in p-type 3DOM NiO by Sn doping for enhanced formaldehyde sensing performance. Journal of Materials Chemistry C, 2017, 5, 3254-3263.	5.5	88
27	Facile preparation of rod-like Au/In2O3 nanocomposites exhibiting high response to CO at room temperature. Sensors and Actuators B: Chemical, 2017, 243, 516-524.	7.8	33
28	Structural and electronic engineering of 3DOM WO_3 by alkali metal doping for improved NO_2 sensing performance. Nanoscale, 2016, 8, 10622-10631.	5.6	62
29	Effects of rare earth element doping on the ethanol gas-sensing performance of three-dimensionally ordered macroporous In_2O_3. RSC Advances, 2016, 6, 45085-45092.	3.6	44
30	Investigation on polyvinyl-alcohol-based rapidly gelling hydrogels for containment of hazardous chemicals. RSC Advances, 2016, 6, 71425-71430.	3.6	14
31	Metal–organic framework derived Au@ZnO yolk–shell nanostructures and their highly sensitive detection of acetone. RSC Advances, 2016, 6, 29727-29733.	3.6	26
32	Highly Sensitive and Selective Ethanol Sensor Fabricated with In-Doped 3DOM ZnO. ACS Applied Materials & Interfaces, 2016, 8, 5466-5474.	8.0	179
33	Oxidative treatment of fentanyl compounds in water by sodium bromate combined with sodium sulphite. Water Science and Technology, 2015, 72, 38-44.	2.5	2
34	Orderly Arranged Fluorescence Dyes as a Highly Efficient Chemiluminescence Resonance Energy Transfer Probe for Peroxynitrite. Analytical Chemistry, 2015, 87, 3412-3418.	6.5	51
35	Multifunctional sandwich-like mesoporous silica–Fe_3O_4–graphene oxide nanocomposites for removal of methylene blue from water. RSC Advances, 2015, 5, 39964-39972.	3.6	34
36	Luminol chemiluminescence actuated by modified natural sepiolite material and its analytical application. Analytical Methods, 2015, 7, 2779-2785.	2.7	11

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37	Three-dimensional ordered macroporous In2O3-supported Au for high-performance ethanol sensing. RSC Advances, 2015, 5, 99018-99022.	3.6	9
38	Controllable Defect Redistribution of ZnO Nanopyramids with Exposed {101Ì…1} Facets for Enhanced Gas Sensing Performance. ACS Applied Materials & Interfaces, 2015, 7, 308-317.	8.0	108
39	Assay of multiplex proteins from cell metabolism based on tunable aptamer and microchip electrophoresis. Biosensors and Bioelectronics, 2015, 63, 105-111.	10.1	47
40	Evolution of biogenic amine concentrations in foods through their induced chemiluminescence inactivation of layered double hydroxide nanosheet colloids. Biosensors and Bioelectronics, 2014, 60, 237-243.	10.1	23
41	Fine-tuning the structure of cubic indium oxide and their ethanol-sensing properties. Sensors and Actuators B: Chemical, 2014, 193, 669-678.	7.8	23
42	High specific surface area LaMO$_3$ (M = Co, Mn) hollow spheres: synthesis, characterization and catalytic properties in methane combustion. RSC Advances, 2014, 4, 58699-58707.	3.6	15
43	The effects of Au species and surfactant on the catalytic reduction of 4-nitrophenol by Au@SiO$_2$. Journal of Materials Chemistry A, 2014, 2, 20374-20381.	10.3	41
44	Functionalization of Flower-Like ZnO Nanostructures With Au@CuO Nanoparticles for Detection of Ethanol. IEEE Sensors Journal, 2014, 14, 1797-1804.	4.7	5
45	The important role of quinic acid in the formation of phenolic compounds from pyrolysis of chlorogenic acid. Journal of Thermal Analysis and Calorimetry, 2013, 114, 1231-1238.	3.6	11
46	Synthesis, characterization and alcohol-sensing properties of rare earth doped In2O3 hollow spheres. Sensors and Actuators B: Chemical, 2013, 177, 1180-1188.	7.8	93
47	Universal Chemiluminescence Flow-Through Device Based on Directed Self-Assembly of Solid-State Organic Chromophores on Layered Double Hydroxide Matrix. Analytical Chemistry, 2013, 85, 2436-2442.	6.5	36
48	Alcohol Sensing Properties of Er-Doped In2O3 Hollow Spheres. Integrated Ferroelectrics, 2012, 138, 117-122.	0.7	6
49	Chemiluminescence flow biosensor for glucose using Mg-Al carbonate layered double hydroxides as catalysts and buffer solutions. Biosensors and Bioelectronics, 2012, 38, 284-288.	10.1	36
50	Carbonate interlayered hydrotalcites-enhanced peroxynitrous acid chemiluminescence for high selectivity sensing of ascorbic acid. Analyst, The, 2012, 137, 1876.	3.5	60
51	Mgâ€"Alâ€"carbonate layered double hydroxides as a novel catalyst of luminol chemiluminescence. Chemical Communications, 2011, 47, 5479-5481.	4.1	62
52	Detection of hydrogen peroxide in rainwater based on Mg-Al-carbonate layered double hydroxides-catalyzed luminol chemiluminescence. Analyst, The, 2011, 136, 4986.	3.5	37
53	Porous ZnO Polygonal Nanoflakes: Synthesis, Use in High-Sensitivity NO$_2$ Gas Sensor, and Proposed Mechanism of Gas Sensing. Journal of Physical Chemistry C, 2011, 115, 12763-12773.	3.1	350
54	Biomimetic synthesis of calcium-strontium apatite hollow nanospheres. Science China Chemistry, 2010, 53, 1723-1727.	8.2	7

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55	Enantiomeric Separation of Two Antiparkinsonian Drugs by Electrokinetic Chromatography Using Dextran Sulfate. Chromatographia, 2009, 70, 817-824.	1.3	4
56	Determination of cadmium in paint samples by graphite furnace atomic absorption spectrometry with optical temperature control. Talanta, 2007, 72, 1723-1727.	5.5	4
57	Selective Catalytic Oxidation of Methane to Methanol in Aqueous Medium over Copper Cations Promoted by Atomically Dispersed Rhodium on TiO$_2$. Angewandte Chemie, 0, , .	2.0	3