

Yinglin Wang

List of Publications by Year in descending order

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papers

20,726
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5267

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times ranked

11403
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Superior Ethanol Gas Sensor Based on Al-Doped NiO Nanorod-Flowers. ACS Sensors, 2016, 1, 131-136.	7.8	334
2	Enhanced Gas Sensing Properties of SnO ₂ Hollow Spheres Decorated with CeO ₂ Nanoparticles Heterostructure Composite Materials. ACS Applied Materials & Interfaces, 2016, 8, 6669-6677.	8.0	271
3	Hierarchical Fe ₂ O ₃ /NiO Composites with a Hollow Structure for a Gas Sensor. ACS Applied Materials & Interfaces, 2014, 6, 12031-12037.	8.0	255
4	UV-enhanced room temperature NO ₂ sensor using ZnO nanorods modified with SnO ₂ nanoparticles. Sensors and Actuators B: Chemical, 2012, 162, 82-88.	7.8	251
5	Nanosheet-Assembled ZnFe ₂ O ₄ Hollow Microspheres for High-Sensitive Acetone Sensor. ACS Applied Materials & Interfaces, 2015, 7, 15414-15421.	8.0	234
6	Design of Au@ZnO Yolk-Shell Nanospheres with Enhanced Gas Sensing Properties. ACS Applied Materials & Interfaces, 2014, 6, 18661-18667.	8.0	216
7	Superior acetone gas sensor based on electrospun SnO ₂ nanofibers by Rh doping. Sensors and Actuators B: Chemical, 2018, 256, 861-869.	7.8	211
8	Flexible resistive NO ₂ gas sensor of three-dimensional crumpled MXene Ti ₃ C ₂ T _x /ZnO spheres for room temperature application. Sensors and Actuators B: Chemical, 2021, 326, 128828.	7.8	199
9	Highly selective CO sensor using stabilized zirconia and a couple of oxide electrodes. Sensors and Actuators B: Chemical, 1998, 47, 84-91.	7.8	196
10	Highly sensitive acetone gas sensor based on porous ZnFe ₂ O ₄ nanospheres. Sensors and Actuators B: Chemical, 2015, 206, 577-583.	7.8	192
11	Growth and selective acetone detection based on ZnO nanorod arrays. Sensors and Actuators B: Chemical, 2009, 143, 93-98.	7.8	188
12	One step synthesis of branched SnO ₂ /ZnO heterostructures and their enhanced gas-sensing properties. Sensors and Actuators B: Chemical, 2019, 281, 415-423.	7.8	185
13	Humidity-Sensing Properties of Urchinlike CuO Nanostructures Modified by Reduced Graphene Oxide. ACS Applied Materials & Interfaces, 2014, 6, 3888-3895.	8.0	184
14	High-temperature hydrogen sensor based on stabilized zirconia and a metal oxide electrode. Sensors and Actuators B: Chemical, 1996, 35, 130-135.	7.8	182
15	Acetone gas sensor based on NiO/ZnO hollow spheres: Fast response and recovery, and low (ppb) detection limit. Journal of Colloid and Interface Science, 2017, 495, 207-215.	9.4	182
16	NH ₃ gas sensing performance enhanced by Pt-loaded on mesoporous WO ₃ . Sensors and Actuators B: Chemical, 2017, 238, 473-481.	7.8	181
17	Dual functional N- and S-co-doped carbon dots as the sensor for temperature and Fe ³⁺ ions. Sensors and Actuators B: Chemical, 2017, 242, 1272-1280.	7.8	177
18	Porous ZnO/ZnCo ₂ O ₄ hollow spheres: synthesis, characterization, and applications in gas sensing. Journal of Materials Chemistry A, 2014, 2, 17683-17690.	10.3	175

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19	Porous SnO ₂ hierarchical nanosheets: hydrothermal preparation, growth mechanism, and gas sensing properties. CrystEngComm, 2011, 13, 3718.	2.6	174
20	Stabilized zirconia-based sensor using oxide electrode for detection of NO _x in high-temperature combustion-exhausts. Solid State Ionics, 1996, 86-88, 1069-1073.	2.7	163
21	High-temperature potentiometric/amperometric NO _x sensors combining stabilized zirconia with mixed-metal oxide electrode. Sensors and Actuators B: Chemical, 1998, 52, 169-178.	7.8	161
22	Progress in mixed-potential type devices based on solid electrolyte for sensing redox gases. Solid State Ionics, 2000, 136-137, 533-542.	2.7	154
23	Study on TiO ₂ -SnO ₂ core-shell heterostructure nanofibers with different work function and its application in gas sensor. Sensors and Actuators B: Chemical, 2017, 248, 812-819.	7.8	147
24	The design of excellent xylene gas sensor using Sn-doped NiO hierarchical nanostructure. Sensors and Actuators B: Chemical, 2017, 253, 1152-1162.	7.8	147
25	Preparation of NiO nanoparticles in microemulsion and its gas sensing performance. Materials Letters, 2012, 68, 168-170.	2.6	144
26	Hollow SnO ₂ /Fe ₂ O ₃ spheres with a double-shell structure for gas sensors. Journal of Materials Chemistry A, 2014, 2, 1302-1308.	10.3	142
27	Enhancement of NO ₂ gas sensing response based on ordered mesoporous Fe-doped In ₂ O ₃ . Sensors and Actuators B: Chemical, 2014, 191, 806-812.	7.8	141
28	The role of Ce doping in enhancing sensing performance of ZnO-based gas sensor by adjusting the proportion of oxygen species. Sensors and Actuators B: Chemical, 2018, 273, 991-998.	7.8	137
29	Ultrasensitive and low detection limit of acetone gas sensor based on W-doped NiO hierarchical nanostructure. Sensors and Actuators B: Chemical, 2015, 220, 59-67.	7.8	133
30	Gas sensor towards n-butanol at low temperature detection: Hierarchical flower-like Ni-doped Co ₃ O ₄ based on solvent-dependent synthesis. Sensors and Actuators B: Chemical, 2021, 328, 129028.	7.8	133
31	High-temperature sensors for NO and NO ₂ based on stabilized zirconia and spinel-type oxide electrodes. Journal of Materials Chemistry, 1997, 7, 1445-1449.	6.7	130
32	Hydrothermal synthesis of 3D urchin-like Fe ₂ O ₃ nanostructure for gas sensor. Sensors and Actuators B: Chemical, 2012, 173, 52-57.	7.8	130
33	Hierarchical Fe ₂ O ₃ /SnO ₂ semiconductor composites: Hydrothermal synthesis and gas sensing properties. Sensors and Actuators B: Chemical, 2013, 182, 336-343.	7.8	130
34	A highly sensitive and moisture-resistant gas sensor for diabetes diagnosis with Pt@In ₂ O ₃ nanowires and a molecular sieve for protection. NPG Asia Materials, 2018, 10, 293-308.	7.9	129
35	Design of Red Emissive Carbon Dots: Robust Performance for Analytical Applications in Pesticide Monitoring. Analytical Chemistry, 2020, 92, 3198-3205.	6.5	129
36	Double-Shell Architectures of ZnFe ₂ O ₄ Nanosheets on ZnO Hollow Spheres for High-Performance Gas Sensors. ACS Applied Materials & Interfaces, 2015, 7, 17811-17818.	8.0	127

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37	Preparation of Ag-loaded mesoporous WO ₃ and its enhanced NO ₂ sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 544-552.	7.8	127
38	Template-free synthesis of hierarchical ZnFe ₂ O ₄ shell microspheres for high-sensitivity acetone sensors. <i>Nanoscale</i> , 2016, 8, 5446-5453.	5.6	125
39	Reduced graphene oxide/Î±-Fe ₂ O ₃ composite nanofibers for application in gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 233-242.	7.8	124
40	Enhanced gas sensing properties to acetone vapor achieved by Î±-Fe ₂ O ₃ particles ameliorated with reduced graphene oxide sheets. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 904-914.	7.8	124
41	High-performance acetone gas sensor based on Ru-doped SnO ₂ nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128292.	7.8	124
42	Ultrasensitive and ultrasensitive detection of H ₂ S using electrospun CuO-loaded In ₂ O ₃ nanofiber sensors assisted by pulse heating. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 934-942.	7.8	123
43	Highly sensitive and selective triethylamine gas sensor based on porous SnO ₂ /Zn ₂ SnO ₄ composites. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 213-220.	7.8	123
44	One-step synthesis and gas sensing properties of hierarchical Cd-doped SnO ₂ nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 32-39.	7.8	122
45	Biosensors based on fluorescence carbon nanomaterials for detection of pesticides. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 134, 116126.	11.4	121
46	Synthesis of Co-doped SnO ₂ nanofibers and their enhanced gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 425-432.	7.8	120
47	Cu-doped Î±-Fe ₂ O ₃ hierarchical microcubes: Synthesis and gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 616-622.	7.8	115
48	Microwave assisted synthesis of hierarchical Pd/SnO ₂ nanostructures for CO gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 257-263.	7.8	113
49	Flower-like In ₂ O ₃ modified by reduced graphene oxide sheets serving as a highly sensitive gas sensor for trace NO ₂ detection. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 206-213.	9.4	113
50	Hierarchical flower-like WO ₃ nanostructures and their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 224-230.	7.8	111
51	Oxygen vacancy engineering for enhanced sensing performances: A case of SnO ₂ nanoparticles-reduced graphene oxide hybrids for ultrasensitive ppb-level room-temperature NO ₂ sensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 812-822.	7.8	109
52	Hierarchical Assembly of Î±-Fe ₂ O ₃ Nanorods on Multiwall Carbon Nanotubes as a High-Performance Sensing Material for Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8919-8928.	8.0	108
53	Sn doping effect on NiO hollow nanofibers based gas sensors about the humidity dependence for triethylamine detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129971.	7.8	108
54	Ultrasensitive and low detection limit of nitrogen dioxide gas sensor based on flower-like ZnO hierarchical nanostructure modified by reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 715-724.	7.8	107

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55	The gas sensor utilizing polyaniline/ MoS ₂ nanosheets/ SnO ₂ nanotubes for the room temperature detection of ammonia. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129444.	7.8	107
56	Nanosheets assembled hierarchical flower-like WO ₃ nanostructures: Synthesis, characterization, and their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 75-81.	7.8	106
57	Highly selective and sensitive xylene gas sensor fabricated from NiO/NiCr ₂ O ₄ p-p nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 305-315.	7.8	106
58	Hydrothermal synthesis of Ce-doped hierarchical flower-like In ₂ O ₃ microspheres and their excellent gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1211-1219.	7.8	103
59	Mixed-potential-type zirconia-based NO ₂ sensor with high-performance three-phase boundary. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 1-8.	7.8	102
60	Facile synthesis and gas sensing properties of In ₂ O ₃ @WO ₃ heterojunction nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 622-629.	7.8	102
61	Improvement of NO ₂ gas sensing performance based on discoid tin oxide modified by reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 419-426.	7.8	102
62	Enhanced sensitive and selective xylene sensors using W-doped NiO nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1475-1482.	7.8	101
63	Preparation and gas-sensing performances of ZnO/CuO rough nanotubular arrays for low-working temperature H ₂ S detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 834-841.	7.8	101
64	Ti ₃ C ₂ MXene quantum dots/TiO ₂ inverse opal heterojunction electrode platform for superior photoelectrochemical biosensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 131-137.	7.8	101
65	APTES-functionalized thin-walled porous WO ₃ nanotubes for highly selective sensing of NO ₂ in a polluted environment. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10976-10989.	10.3	100
66	High-performance reduced graphene oxide-based room-temperature NO ₂ sensors: A combined surface modification of SnO ₂ nanoparticles and nitrogen doping approach. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 269-279.	7.8	99
67	Highly efficient ethanol gas sensor based on hierarchical SnO ₂ /Zn ₂ SnO ₄ porous spheres. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 339-346.	7.8	97
68	Enhanced room temperature gas sensor based on Au-loaded mesoporous In ₂ O ₃ nanospheres@polyaniline core-shell nanohybrid assembled on flexible PET substrate for NH ₃ detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 526-533.	7.8	95
69	Highly-sensitivity acetone sensors based on spinel-type oxide (NiFe ₂ O ₄) through optimization of porous structure. <i>Sensors and Actuators B: Chemical</i> , 2019, 291, 266-274.	7.8	94
70	Acetone sensors with high stability to humidity changes based on Ru-doped NiO flower-like microspheres. <i>Sensors and Actuators B: Chemical</i> , 2020, 313, 127965.	7.8	94
71	Au-loaded mesoporous WO ₃ : Preparation and n-butanol sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 67-76.	7.8	92
72	Ultrasensitive and low detection limit of toluene gas sensor based on SnO ₂ -decorated NiO nanostructure. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3505-3515.	7.8	92

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73	Hierarchical Assembly of Fe_2O_3 Nanosheets on SnO_2 Hollow Nanospheres with Enhanced Ethanol Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19119-19125.	8.0	91
74	Ultra-sensitive sensing platform based on Pt-ZnO-In ₂ O ₃ nanofibers for detection of acetone. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 185-194.	7.8	90
75	Ultrasensitive gas sensor based on hollow tungsten trioxide-nickel oxide (WO ₃ -NiO) nanoflowers for fast and selective xylene detection. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 458-468.	9.4	90
76	Ordered mesoporous Pd/SnO ₂ synthesized by a nanocasting route for high hydrogen sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 604-608.	7.8	89
77	Visible light activated excellent NO ₂ sensing based on 2D/2D ZnO/g-C ₃ N ₄ heterojunction composites. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127287.	7.8	89
78	Facile synthesis and gas sensing properties of the flower-like NiO-decorated ZnO microstructures. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 294-301.	7.8	88
79	A fluorescent biosensor based on molybdenum disulfide nanosheets and protein aptamer for sensitive detection of carcinoembryonic antigen. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 185-190.	7.8	88
80	Fabrication of highly sensitive and selective room-temperature nitrogen dioxide sensors based on the ZnO nanoflowers. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 191-198.	7.8	88
81	The preparation of reduced graphene oxide-encapsulated Fe_2O_3 hybrid and its outstanding NO ₂ gas sensing properties at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 252-263.	7.8	87
82	Yellow-Emissive Carbon Dot-Based Optical Sensing Platforms: Cell Imaging and Analytical Applications for Biocatalytic Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7737-7744.	8.0	87
83	Design and preparation of the WO ₃ hollow spheres@ PANI conducting films for room temperature flexible NH ₃ sensing device. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 252-259.	7.8	87
84	Selective detection of NO by using an amperometric sensor based on stabilized zirconia and oxide electrode. <i>Solid State Ionics</i> , 1999, 117, 283-290.	2.7	85
85	Dispersive SnO ₂ nanosheets: Hydrothermal synthesis and gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 779-783.	7.8	85
86	Preparation and gas sensing properties of hierarchical flower-like In ₂ O ₃ microspheres. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 405-412.	7.8	84
87	Flower-like ZnO hollow microspheres loaded with CdO nanoparticles as high performance sensing material for gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 692-702.	7.8	84
88	Pt-In ₂ O ₃ mesoporous nanofibers with enhanced gas sensing performance towards ppb-level NO ₂ at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 927-936.	7.8	84
89	One-pot synthesis of In doped NiO nanofibers and their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 584-591.	7.8	79
90	Template-free microwave-assisted synthesis of ZnO hollow microspheres and their application in gas sensing. <i>CrystEngComm</i> , 2013, 15, 2949.	2.6	78

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91	Integrating Target-Responsive Hydrogels with Smartphone for On-Site ppb-Level Quantitation of Organophosphate Pesticides. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27605-27614.	8.0	77
92	Sensing characteristics and mechanisms of hydrogen sulfide sensor using stabilized zirconia and oxide sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 1996, 34, 367-372.	7.8	76
93	Flower-like WO ₃ architectures synthesized via a microwave-assisted method and their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 734-740.	7.8	76
94	Horseshoe-shaped SnO ₂ with annulus-like mesoporous for ethanol gas sensing application. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 1321-1329.	7.8	76
95	Realizing the Control of Electronic Energy Level Structure and Gas-Sensing Selectivity over Heteroatom-Doped In ₂ O ₃ Spheres with an Inverse Opal Microstructure. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9600-9611.	8.0	76
96	Room temperature gas sensor based on tin dioxide@ polyaniline nanocomposite assembled on flexible substrate: ppb-level detection of NH ₃ . <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126970.	7.8	75
97	Solid-state potentiometric SO ₂ sensor combining NASICON with V ₂ O ₅ -doped TiO ₂ electrode. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 25-30.	7.8	73
98	The effects of sintering temperature of MnCr ₂ O ₄ nanocomposite on the NO ₂ sensing property for YSZ-based potentiometric sensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 397-403.	7.8	73
99	The facile synthesis of MoO ₃ microsheets and their excellent gas-sensing performance toward triethylamine: high selectivity, excellent stability and superior repeatability. <i>New Journal of Chemistry</i> , 2018, 42, 15111-15120.	2.8	73
100	Highly sensitive sensors based on quasi-2D rGO/SnS ₂ hybrid for rapid detection of NO ₂ gas. <i>Sensors and Actuators B: Chemical</i> , 2019, 291, 216-225.	7.8	73
101	MOF-Derived Mesoporous and Hierarchical Hollow-Structured In ₂ O ₃ -NiO Composites for Enhanced Triethylamine Sensing. <i>ACS Sensors</i> , 2021, 6, 3451-3461.	7.8	72
102	Design of highly sensitive and selective xylene gas sensor based on Ni-doped MoO ₃ nano-pompon. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126888.	7.8	71
103	Graphene quantum dot-functionalized three-dimensional ordered mesoporous ZnO for acetone detection toward diagnosis of diabetes. <i>Nanoscale</i> , 2019, 11, 11496-11504.	5.6	71
104	Synthesis and gas sensing properties of bundle-like γ -Fe ₂ O ₃ nanorods. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 368-374.	7.8	70
105	Study on highly selective sensing behavior of ppb-level oxidizing gas sensors based on Zn ₂ SnO ₄ nanoparticles immobilized on reduced graphene oxide under humidity conditions. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 590-600.	7.8	70
106	UV-activated ultrasensitive and fast reversible ppb NO ₂ sensing based on ZnO nanorod modified by constructing interfacial electric field with In ₂ O ₃ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127498.	7.8	70
107	Understanding the noble metal modifying effect on In ₂ O ₃ nanowires: highly sensitive and selective gas sensors for potential early screening of multiple diseases. <i>Nanoscale Horizons</i> , 2019, 4, 1361-1371.	8.0	69
108	Self-Assembly Template Driven 3D Inverse Opal Microspheres Functionalized with Catalyst Nanoparticles Enabling a Highly Efficient Chemical Sensing Platform. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5835-5844.	8.0	67

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109	Preparation of Pd/PdO loaded WO ₃ microspheres for H ₂ S detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128629.	7.8	67
110	Xylene gas sensing properties of hydrothermal synthesized SnO ₂ -Co ₃ O ₄ microstructure. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127780.	7.8	66
111	In-situ generated TiO ₂ /Fe ₂ O ₃ heterojunction arrays for batch manufacturing of conductometric acetone gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129926.	7.8	66
112	Novel Zn-doped SnO ₂ hierarchical architectures: synthesis, characterization, and gas sensing properties. <i>CrystEngComm</i> , 2012, 14, 1701-1708.	2.6	65
113	Enhanced NO ₂ gas sensing properties by Ag-doped hollow urchin-like In ₂ O ₃ hierarchical nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 418-427.	7.8	65
114	Enhanced gas sensing properties of monodisperse Zn ₂ SnO ₄ octahedron functionalized by PdO nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 302-310.	7.8	65
115	Nanosheet-assembled NiO microspheres modified by Sn ²⁺ ions isovalent interstitial doping for xylene gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 210-222.	7.8	64
116	Rational design of 3D inverse opal heterogeneous composite microspheres as excellent visible-light-induced NO ₂ sensors at room temperature. <i>Nanoscale</i> , 2018, 10, 4841-4851.	5.6	63
117	Room temperature high performance NH ₃ sensor based on GO-rambutan-like polyaniline hollow nanosphere hybrid assembled to flexible PET substrate. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 726-734.	7.8	63
118	Mixed potential type acetone sensor using stabilized zirconia and M ₃ V ₂ O ₈ (M: Zn, Co and Ni) sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 673-680.	7.8	62
119	Highly Enhanced Sensing Properties for ZnO Nanoparticle-Decorated Round-Edged Fe ₂ O ₃ Hexahedrons. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8743-8749.	8.0	62
120	Enhanced sensing response towards NO ₂ based on ordered mesoporous Zr-doped In ₂ O ₃ with low operating temperature. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 806-813.	7.8	62
121	Fluorometric and colorimetric analysis of carbamate pesticide via enzyme-triggered decomposition of Gold nanoclusters-anchored MnO ₂ nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 640-647.	7.8	62
122	SnO ₂ /ZnSnO ₃ double-shelled hollow microspheres based high-performance acetone gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129212.	7.8	62
123	Au@In ₂ O ₃ core-shell composites: a metal-semiconductor heterostructure for gas sensing applications. <i>RSC Advances</i> , 2015, 5, 545-551.	3.6	61
124	High-performance gas sensing achieved by mesoporous tungsten oxide mesocrystals with increased oxygen vacancies. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8653.	10.3	60
125	Hydrothermal synthesis and gas-sensing properties of flower-like Sn ₃ O ₄ . <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 128-133.	7.8	60
126	Anchoring ultrafine Pd nanoparticles and SnO ₂ nanoparticles on reduced graphene oxide for high-performance room temperature NO ₂ sensing. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 599-608.	9.4	60

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127	Facile synthesis of La-doped In ₂ O ₃ hollow microspheres and enhanced hydrogen sulfide sensing characteristics. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 413-420.	7.8	60
128	Ultrasonic spray pyrolysis synthesis of three-dimensional ZnFe ₂ O ₄ -based macroporous spheres for excellent sensitive acetone gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126755.	7.8	60
129	Improved NH ₃ , C ₂ H ₅ OH, and CH ₃ COCH ₃ sensing properties of SnO ₂ nanofibers by adding block copolymer P123. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 174-178.	7.8	59
130	Mixed-potential-type NO ₂ sensor using stabilized zirconia and Cr ₂ O ₃ •WO ₃ nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2013, 180, 90-95.	7.8	59
131	Template-free synthesis and gas sensing properties of hierarchical hollow ZnO microspheres. <i>CrystEngComm</i> , 2013, 15, 7438.	2.6	59
132	Facile synthesis and gas sensing properties of La ₂ O ₃ •WO ₃ nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 434-442.	7.8	59
133	Dispersed WO ₃ nanoparticles with porous nanostructure for ultrafast toluene sensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 195-206.	7.8	59
134	Au@ZnO functionalized three-dimensional macroporous WO ₃ : A application of selective H ₂ S gas sensor for exhaled breath biomarker detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128725.	7.8	59
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