

Yinglin Wang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

335
papers

14,291
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67
h-index

96
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346
ext. papers

17,441
ext. citations

7.7
avg, IF

6.86
L-index

#	Paper	IF	Citations
335	Design of Superior Ethanol Gas Sensor Based on Al-Doped NiO Nanorod-Flowers. <i>ACS Sensors</i> , 2016 , 1, 131-136	9.2	245
334	UV-enhanced room temperature NO ₂ sensor using ZnO nanorods modified with SnO ₂ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2012 , 162, 82-88	8.5	224
333	Hierarchical Fe ₂ O ₃ /NiO composites with a hollow structure for a gas sensor. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12031-7	9.5	220
332	Enhanced Gas Sensing Properties of SnO ₂ Hollow Spheres Decorated with CeO ₂ Nanoparticles Heterostructure Composite Materials. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6669-77	9.5	201
331	Nanosheet-assembled ZnFe ₂ O ₄ hollow microspheres for high-sensitive acetone sensor. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15414-21	9.5	197
330	Design of Au@ZnO yolk-shell nanospheres with enhanced gas sensing properties. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18661-7	9.5	190
329	Growth and selective acetone detection based on ZnO nanorod arrays. <i>Sensors and Actuators B: Chemical</i> , 2009 , 143, 93-98	8.5	167
328	Highly selective CO sensor using stabilized zirconia and a couple of oxide electrodes. <i>Sensors and Actuators B: Chemical</i> , 1998 , 47, 84-91	8.5	166
327	Porous SnO ₂ hierarchical nanosheets: hydrothermal preparation, growth mechanism, and gas sensing properties. <i>CrystEngComm</i> , 2011 , 13, 3718	3.3	163
326	Highly sensitive acetone gas sensor based on porous ZnFe ₂ O ₄ nanospheres. <i>Sensors and Actuators B: Chemical</i> , 2015 , 206, 577-583	8.5	160
325	High-temperature hydrogen sensor based on stabilized zirconia and a metal oxide electrode. <i>Sensors and Actuators B: Chemical</i> , 1996 , 35, 130-135	8.5	158
324	Superior acetone gas sensor based on electrospun SnO ₂ nanofibers by Rh doping. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 861-869	8.5	151
323	Porous ZnO/ZnCo ₂ O ₄ hollow spheres: synthesis, characterization, and applications in gas sensing. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17683-17690	13	148
322	High-temperature potentiometric/amperometric NO _x sensors combining stabilized zirconia with mixed-metal oxide electrode. <i>Sensors and Actuators B: Chemical</i> , 1998 , 52, 169-178	8.5	145
321	Acetone gas sensor based on NiO/ZnO hollow spheres: Fast response and recovery, and low (ppb) detection limit. <i>Journal of Colloid and Interface Science</i> , 2017 , 495, 207-215	9.3	143
320	Humidity-sensing properties of urchinlike CuO nanostructures modified by reduced graphene oxide. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3888-95	9.5	142
319	Stabilized zirconia-based sensor using oxide electrode for detection of NO _x in high-temperature combustion-exhausts. <i>Solid State Ionics</i> , 1996 , 86-88, 1069-1073	3.3	141

318	Hollow SnO ₂ /Fe ₂ O ₃ spheres with a double-shell structure for gas sensors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1302-1308	13	132
317	Progress in mixed-potential type devices based on solid electrolyte for sensing redox gases. <i>Solid State Ionics</i> , 2000 , 136-137, 533-542	3.3	128
316	Dual functional N- and S-co-doped carbon dots as the sensor for temperature and Fe ³⁺ ions. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 1272-1280	8.5	125
315	High-temperature sensors for NO and NO ₂ based on stabilized zirconia and spinel-type oxide electrodes. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1445-1449		124
314	NH ₃ gas sensing performance enhanced by Pt-loaded on mesoporous WO ₃ . <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 473-481	8.5	122
313	Enhancement of NO ₂ gas sensing response based on ordered mesoporous Fe-doped In ₂ O ₃ . <i>Sensors and Actuators B: Chemical</i> , 2014 , 191, 806-812	8.5	118
312	Hierarchical Fe ₂ O ₃ /SnO ₂ semiconductor composites: Hydrothermal synthesis and gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2013 , 182, 336-343	8.5	118
311	One step synthesis of branched SnO ₂ /ZnO heterostructures and their enhanced gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 415-423	8.5	117
310	Preparation of NiO nanoparticles in microemulsion and its gas sensing performance. <i>Materials Letters</i> , 2012 , 68, 168-170	3.3	116
309	Double-Shell Architectures of ZnFe ₂ O ₄ Nanosheets on ZnO Hollow Spheres for High-Performance Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17811-8	9.5	106
308	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	8.5	106
307	Ultrasensitive and low detection limit of acetone gas sensor based on W-doped NiO hierarchical nanostructure. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 59-67	8.5	106
306	Hydrothermal synthesis of 3D urchin-like Fe ₂ O ₃ nanostructure for gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2012 , 173, 52-57	8.5	106
305	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	8.5	105
304	The design of excellent xylene gas sensor using Sn-doped NiO hierarchical nanostructure. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 1152-1162	8.5	103
303	Study on TiO ₂ -SnO ₂ core-shell heterostructure nanofibers with different work function and its application in gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 248, 812-819	8.5	102
302	Template-free synthesis of hierarchical ZnFe ₂ O ₄ yolk-shell microspheres for high-sensitivity acetone sensors. <i>Nanoscale</i> , 2016 , 8, 5446-53	7.7	101
301	Hierarchical flower-like WO ₃ nanostructures and their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014 , 204, 224-230	8.5	101

300	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	8.5	99
299	Reduced graphene oxide/Fe ₂ O ₃ composite nanofibers for application in gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017 , 244, 233-242	8.5	97
298	Cu-doped Fe ₂ O ₃ hierarchical microcubes: Synthesis and gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014 , 193, 616-622	8.5	97
297	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	8.5	95
296	Microwave assisted synthesis of hierarchical Pd/SnO ₂ nanostructures for CO gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 257-263	8.5	93
295	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	8.5	93
294	Enhanced gas sensing properties to acetone vapor achieved by Fe ₂ O ₃ particles ameliorated with reduced graphene oxide sheets. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 904-914	8.5	90
293	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	8.5	87
292	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	8.5	86
291	Flower-like InO modified by reduced graphene oxide sheets serving as a highly sensitive gas sensor for trace NO detection. <i>Journal of Colloid and Interface Science</i> , 2017 , 504, 206-213	9.3	85
290	Synthesis of Co-doped SnO ₂ nanofibers and their enhanced gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2016 , 236, 425-432	8.5	85
289	The role of Ce doping in enhancing sensing performance of ZnO-based gas sensor by adjusting the proportion of oxygen species. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 991-998	8.5	85
288	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	8.5	82
287	A highly sensitive and moisture-resistant gas sensor for diabetes diagnosis with Pt@In ₂ O ₃ nanowires and a molecular sieve for protection. <i>NPG Asia Materials</i> , 2018 , 10, 293-308	10.3	81
286	Hierarchical Assembly of FeO Nanorods on Multiwall Carbon Nanotubes as a High-Performance Sensing Material for Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8919-8928	9.5	80
285	Hierarchical Assembly of FeO Nanosheets on SnO ₂ Hollow Nanospheres with Enhanced Ethanol Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19119-25	9.5	79
284	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	8.5	79
283	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	8.5	79

282	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	8.5	76
281	Flexible resistive NO ₂ gas sensor of three-dimensional crumpled MXene Ti ₃ C ₂ T _x /ZnO spheres for room temperature application. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 128828	8.5	76
280	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	8.5	75
279	Dispersive SnO ₂ nanosheets: Hydrothermal synthesis and gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 779-783	8.5	75
278	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	13	74
277	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	3.3	74
276	Template-free microwave-assisted synthesis of ZnO hollow microspheres and their application in gas sensing. <i>CrystEngComm</i> , 2013 , 15, 2949	3.3	73
275	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	8.5	73
274	Enhanced sensitive and selective xylene sensors using W-doped NiO nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1475-1482	8.5	71
273	The preparation of reduced graphene oxide-encapsulated Fe ₂ O ₃ hybrid and its outstanding NO ₂ gas sensing properties at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2018 , 261, 252-263	8.5	71
272	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	8.5	70
271	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	8.5	70
270	Synthesis and gas sensing properties of bundle-like Fe ₂ O ₃ nanorods. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 368-374	8.5	67
269	Au-loaded mesoporous WO ₃ : Preparation and n-butanol sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2016 , 236, 67-76	8.5	67
268	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	8.5	67
267	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	8.5	66
266	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	8.5	66
265	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	8.5	66

264	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	8.5	64
263	The effects of sintering temperature of MnCr2O4 nanocomposite on the NO2 sensing property for YSZ-based potentiometric sensor. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 397-403	8.5	64
262	Design of Red Emissive Carbon Dots: Robust Performance for Analytical Applications in Pesticide Monitoring. <i>Analytical Chemistry</i> , 2020 , 92, 3198-3205	7.8	63
261	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	9.5	63
260	Ultrasensitive gas sensor based on hollow tungsten trioxide-nickel oxide (WO-NiO) nanoflowers for fast and selective xylene detection. <i>Journal of Colloid and Interface Science</i> , 2019 , 535, 458-468	9.3	63
259	Horseshoe-shaped SnO2 with annulus-like mesoporous for ethanol gas sensing application. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 1321-1329	8.5	62
258	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	8.5	61
257	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	8.5	60
256	Highly selective and sensitive xylene gas sensor fabricated from NiO/NiCr2O4 p-p nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2019 , 284, 305-315	8.5	60
255	Novel Zn-doped SnO2 hierarchical architectures: synthesis, characterization, and gas sensing properties. <i>CrystEngComm</i> , 2012 , 14, 1701-1708	3.3	59
254	Ultra-sensitive sensing platform based on Pt-ZnO-In2O3 nanofibers for detection of acetone. <i>Sensors and Actuators B: Chemical</i> , 2018 , 272, 185-194	8.5	59
253	Enhanced room temperature gas sensor based on Au-loaded mesoporous In2O3 nanospheres@polyaniline core-shell nanohybrid assembled on flexible PET substrate for NH3 detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 276, 526-533	8.5	58
252	Solid-state potentiometric SO2 sensor combining NASICON with V2O5-doped TiO2 electrode. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 25-30	8.5	58
251	Highly Enhanced Sensing Properties for ZnO Nanoparticle-Decorated Round-Edged FeO Hexahedrons. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8743-9	9.5	56
250	Highly-sensitivity acetone sensors based on spinel-type oxide (NiFe2O4) through optimization of porous structure. <i>Sensors and Actuators B: Chemical</i> , 2019 , 291, 266-274	8.5	55
249	Pt-In2O3 mesoporous nanofibers with enhanced gas sensing performance towards ppb-level NO2 at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2018 , 260, 927-936	8.5	55
248	High-performance gas sensing achieved by mesoporous tungsten oxide mesocrystals with increased oxygen vacancies. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8653	13	55
247	Rational design of 3D inverse opal heterogeneous composite microspheres as excellent visible-light-induced NO sensors at room temperature. <i>Nanoscale</i> , 2018 , 10, 4841-4851	7.7	54

246	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	8.5	54
245	High-performance acetone gas sensor based on Ru-doped SnO ₂ nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2020 , 320, 128292	8.5	53
244	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	8.5	53
243	Template-free synthesis and gas sensing properties of hierarchical hollow ZnO microspheres. <i>CrystEngComm</i> , 2013 , 15, 7438	3.3	53
242	One-pot synthesis of In doped NiO nanofibers and their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 584-591	8.5	53
241	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	8.5	52
240	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	8.5	52
239	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	8.5	51
238	Graphene quantum dot-functionalized three-dimensional ordered mesoporous ZnO for acetone detection toward diagnosis of diabetes. <i>Nanoscale</i> , 2019 , 11, 11496-11504	7.7	50
237	Au@In ₂ O ₃ core-shell composites: a metal-semiconductor heterostructure for gas sensing applications. <i>RSC Advances</i> , 2015 , 5, 545-551	3.7	50
236	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	8.5	50
235	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	8.5	48
234	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	8.5	48
233	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	3.6	48
232	High Performance Mixed-Potential Type NO _x Sensor Based On Stabilized Zirconia and Oxide Electrode. <i>Solid State Ionics</i> , 2014 , 262, 292-297	3.3	48
231	High performance mixed potential type acetone sensor based on stabilized zirconia and NiNb ₂ O ₆ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2016 , 229, 200-208	8.5	47
230	Hydrothermal synthesis and gas-sensing properties of flower-like Sn ₃ O ₄ . <i>Sensors and Actuators B: Chemical</i> , 2016 , 224, 128-133	8.5	47
229	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	8.5	47

228	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	9.5	47
227	Stabilized zirconia-based mixed potential type sensors utilizing MnNb2O6 sensing electrode for detection of low-concentration SO2. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 1024-1031	8.5	47
226	Synthesis of novel SnO2/ZnSnO3 core-shell microspheres and their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 606-611	8.5	47
225	Visible light activated excellent NO2 sensing based on 2D/2D ZnO/g-C3N4 heterojunction composites. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127287	8.5	47
224	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	9.5	46
223	Tripartite Layered Photoanode from Hierarchical Anatase TiO2 Urchin-Like Spheres and P25: A Candidate for Enhanced Efficiency Dye Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24150-24156	3.8	46
222	Solid-state potentiometric H2S sensor combining NASICON with Pr6O11-doped SnO2 electrode. <i>Sensors and Actuators B: Chemical</i> , 2007 , 125, 544-549	8.5	46
221	Enhanced NO2 gas sensing properties by Ag-doped hollow urchin-like In2O3 hierarchical nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 418-427	8.5	44
220	Realizing the Control of Electronic Energy Level Structure and Gas-Sensing Selectivity over Heteroatom-Doped InO Spheres with an Inverse Opal Microstructure. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9600-9611	9.5	44
219	Nanosheet-assembled NiO microspheres modified by Sn2+ ions isovalent interstitial doping for xylene gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2018 , 269, 210-222	8.5	44
218	Enhanced sensing response towards NO2 based on ordered mesoporous Zr-doped In2O3 with low operating temperature. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 806-813	8.5	43
217	Highly sensitive sensors based on quasi-2D rGO/SnS2 hybrid for rapid detection of NO2 gas. <i>Sensors and Actuators B: Chemical</i> , 2019 , 291, 216-225	8.5	43
216	Study on highly selective sensing behavior of ppb-level oxidizing gas sensors based on Zn2SnO4 nanoparticles immobilized on reduced graphene oxide under humidity conditions. <i>Sensors and Actuators B: Chemical</i> , 2019 , 285, 590-600	8.5	42
215	Facile synthesis and the enhanced sensing properties of Pt-loaded Fe2O3 porous nanospheres. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 1153-1162	8.5	42
214	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	8.5	41
213	Anchoring ultrafine Pd nanoparticles and SnO nanoparticles on reduced graphene oxide for high-performance room temperature NO sensing. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 599-608	9.3	41
212	Biosensors based on fluorescence carbon nanomaterials for detection of pesticides. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 134, 116126	14.6	41
211	Facile synthesis of La-doped In2O3 hollow microspheres and enhanced hydrogen sulfide sensing characteristics. <i>Sensors and Actuators B: Chemical</i> , 2018 , 276, 413-420	8.5	41

210	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	8.5	40
209	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	10.8	40
208	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	8.5	40
207	UV-activated room temperature metal oxide based gas sensor attached with reflector. <i>Sensors and Actuators B: Chemical</i> , 2012 , 169, 291-296	8.5	40
206	Gas sensor towards n-butanol at low temperature detection: Hierarchical flower-like Ni-doped Co ₃ O ₄ based on solvent-dependent synthesis. <i>Sensors and Actuators B: Chemical</i> , 2021 , 328, 129028	8.5	40
205	Protein-Inorganic Hybrid Nanoflower-Rooted Agarose Hydrogel Platform for Point-of-Care Detection of Acetylcholine. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11857-11864	9.5	39
204	Vitamin C-assisted synthesis and gas sensing properties of coaxial In ₂ O ₃ nanorod bundles. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 68-74	8.5	39
203	Octahedral-Like CuO/InO Mesocages with Double-Shell Architectures: Rational Preparation and Application in Hydrogen Sulfide Detection. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44632-44640	9.5	38
202	Enhanced hydrogen sulfide sensing properties of Pt-functionalized Fe ₂ O ₃ nanowires prepared by one-step electrospinning. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1015-1023	8.5	38
201	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	8.5	37
200	Highly sensitive mixed-potential-type NO ₂ sensor with YSZ processed using femtosecond laser direct writing technology. <i>Sensors and Actuators B: Chemical</i> , 2014 , 198, 110-113	8.5	37
199	High-temperature NO ₂ gas sensor based on stabilized zirconia and CoTa ₂ O ₆ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 148-157	8.5	37
198	Gas sensing with hollow Fe ₂ O ₃ urchin-like spheres prepared via template-free hydrothermal synthesis. <i>CrystEngComm</i> , 2012 , 14, 8335	3.3	37
197	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	8.5	36
196	Switchable fluorescence immunoassay using gold nanoclusters anchored cobalt oxyhydroxide composite for sensitive detection of imidacloprid. <i>Sensors and Actuators B: Chemical</i> , 2019 , 283, 207-214	8.5	35
195	Dispersed WO ₃ nanoparticles with porous nanostructure for ultrafast toluene sensing. <i>Sensors and Actuators B: Chemical</i> , 2019 , 289, 195-206	8.5	34
194	Design of Fe ₂ O ₃ nanorods functionalized tubular NiO nanostructure for discriminating toluene molecules. <i>Scientific Reports</i> , 2016 , 6, 26432	4.9	34
193	Novel cage-like Fe ₂ O ₃ /SnO ₂ composite nanofibers by electrospinning for rapid gas sensing properties. <i>RSC Advances</i> , 2014 , 4, 27552-27555	3.7	34

192	Microwave hydrothermal synthesis and gas sensing application of porous ZnO core-shell microstructures. <i>RSC Advances</i> , 2014 , 4, 32538	3.7	34
191	YSZ-based NO ₂ sensor utilizing hierarchical In ₂ O ₃ electrode. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 698-706	8.5	33
190	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	8.5	33
189	Fabrication of Well-Ordered Three-Phase Boundary with Nanostructure Pore Array for Mixed Potential-Type Zirconia-Based NO ₂ Sensor. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16752-60	9.5	33
188	High performance mixed-potential type NO ₂ sensors based on three-dimensional TPB and Co ₃ V ₂ O ₈ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2015 , 216, 121-127	8.5	33
187	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	8.5	33
186	Mesoporous ZnFe ₂ O ₄ prepared through hard template and its acetone sensing properties. <i>Materials Letters</i> , 2016 , 183, 378-381	3.3	33
185	Xylene gas sensing properties of hydrothermal synthesized SnO ₂ -Co ₃ O ₄ microstructure. <i>Sensors and Actuators B: Chemical</i> , 2020 , 310, 127780	8.5	32
184	Rational synthesis of molybdenum disulfide nanoparticles decorated reduced graphene oxide hybrids and their application for high-performance NO ₂ sensing. <i>Sensors and Actuators B: Chemical</i> , 2018 , 260, 508-518	8.5	32
183	Mixed-potential type NO _x sensor using stabilized zirconia and MoO ₃ /In ₂ O ₃ nanocomposites. <i>Ceramics International</i> , 2016 , 42, 12503-12507	5.1	32
182	A pulse-driven sensor based on ordered mesoporous Ag ₂ O/SnO ₂ with improved H ₂ S-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2016 , 228, 529-538	8.5	32
181	A low temperature operating gas sensor with high response to NO ₂ based on ordered mesoporous Ni-doped In ₂ O ₃ . <i>New Journal of Chemistry</i> , 2016 , 40, 2376-2382	3.6	32
180	Hierarchical nanorod-flowers indium oxide microspheres and their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2016 , 227, 547-553	8.5	32
179	Growth of SnO ₂ nanowire arrays by ultrasonic spray pyrolysis and their gas sensing performance. <i>RSC Advances</i> , 2014 , 4, 43429-43435	3.7	32
178	Template-free synthesis of novel In ₂ O ₃ nanostructures and their application to gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 32-38	8.5	32
177	Sub-ppb SO ₂ gas sensor based on NASICON and La _x Sm _{1-x} FeO ₃ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 648-655	8.5	31
176	Highly selective and stable mixed-potential type gas sensor based on stabilized zirconia and Cd ₂ V ₂ O ₇ sensing electrode for NH ₃ detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 279, 213-222	8.5	31
175	Highly sensitive and humidity-independent ethanol sensors based on In ₂ O ₃ nanoflower/SnO ₂ nanoparticle composites. <i>RSC Advances</i> , 2015 , 5, 52252-52258	3.7	30

174	Mixed potential type sensor based on stabilized zirconia and Co _{1-x} Zn _x Fe ₂ O ₄ sensing electrode for detection of acetone. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1173-1181	8.5	30
173	Preparation of Au-loaded TiO ₂ pecan-kernel-like and its enhanced toluene sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 2240-2247	8.5	30
172	High specific surface area urchin-like hierarchical ZnO-TiO ₂ architectures: Hydrothermal synthesis and photocatalytic properties. <i>Materials Letters</i> , 2016 , 175, 52-55	3.3	30
171	Hollow zinc oxide microspheres functionalized by Au nanoparticles for gas sensors. <i>RSC Advances</i> , 2014 , 4, 28005	3.7	30
170	Preparation of Pd/PdO loaded WO ₃ microspheres for H ₂ S detection. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128629	8.5	30
169	Solvothermal synthesis of porous CuFe ₂ O ₄ nanospheres for high performance acetone sensor. <i>Sensors and Actuators B: Chemical</i> , 2018 , 270, 538-544	8.5	30
168	Metal-organic frameworks derived tin-doped cobalt oxide yolk-shell nanostructures and their gas sensing properties. <i>Journal of Colloid and Interface Science</i> , 2018 , 528, 53-62	9.3	30
167	Highly enhanced NO ₂ sensing performances of Cu-doped In ₂ O ₃ hierarchical flowers. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 297-304	8.5	29
166	Highly dispersed Metal-Organic-Framework-Derived Pt nanoparticles on three-dimensional macroporous ZnO for trace-level H ₂ S sensing. <i>Sensors and Actuators B: Chemical</i> , 2020 , 309, 127802	8.5	29
165	CeO ₂ -based mixed potential type acetone sensor using MFeO ₃ (M: Bi, La and Sm) sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2018 , 276, 489-498	8.5	29
164	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	8.5	29
163	Detection of Methanol with Fast Response by Monodispersed Indium Tungsten Oxide Ellipsoidal Nanospheres. <i>ACS Sensors</i> , 2017 , 2, 648-654	9.2	28
162	Highly sensitive amperometric Nafion-based CO sensor using Pt/C electrodes with different kinds of carbon materials. <i>Sensors and Actuators B: Chemical</i> , 2017 , 239, 696-703	8.5	28
161	Facile synthesis and gas-sensing properties of monodisperse Fe ₂ O ₃ discoid crystals. <i>RSC Advances</i> , 2012 , 2, 9824	3.7	28
160	One-step synthesis and gas sensing characteristics of urchin-like In ₂ O ₃ . <i>Sensors and Actuators B: Chemical</i> , 2013 , 186, 61-66	8.5	28
159	Revealing the relationship between the Au decoration method and the enhanced acetone sensing performance of a mesoporous In ₂ O ₃ -based gas sensor. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 78-88	7.1	28
158	High-temperature stabilized zirconia-based sensors utilizing MNb ₂ O ₆ (M: Co, Ni and Zn) sensing electrodes for detection of NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 523-530	8.5	28
157	Gas sniffer (YSZ-based electrochemical gas phase sensor) toward acetone detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 278, 1-7	8.5	28

156	Novel Self-Assembly Route Assisted Ultra-Fast Trace Volatile Organic Compounds Gas Sensing Based on Three-Dimensional Opal Microspheres Composites for Diabetes Diagnosis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32913-32921	9.5	28
155	Fabrication of flexible room-temperature NO ₂ sensors by direct laser writing of In ₂ O ₃ and graphene oxide composites. <i>Sensors and Actuators B: Chemical</i> , 2018 , 277, 114-120	8.5	28
154	Fabrication of well-ordered porous array mounted with gold nanoparticles and enhanced sensing properties for mixed potential-type zirconia-based NH ₃ sensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 1083-1091	8.5	27
153	Pt-Cr ₂ O ₃ -WO ₃ composite nanofibers as gas sensors for ultra-high sensitive and selective xylene detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 300, 127008	8.5	27
152	On-site monitoring of thiram via aggregation-induced emission enhancement of gold nanoclusters based on electronic-eye platform. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126641	8.5	27
151	High-response and low-temperature nitrogen dioxide gas sensor based on gold-loaded mesoporous indium trioxide. <i>Journal of Colloid and Interface Science</i> , 2018 , 524, 368-378	9.3	27
150	Effect of the dispersants on the performance of fuel cell type CO sensor with Pt/C/Nafion electrodes. <i>Sensors and Actuators B: Chemical</i> , 2016 , 230, 61-69	8.5	27
149	Preparation of silver-loaded titanium dioxide hedgehog-like architecture composed of hundreds of nanorods and its fast response to xylene. <i>Journal of Colloid and Interface Science</i> , 2019 , 536, 215-223	9.3	26
148	Highly sensitive gas sensor based on stabilized zirconia and CdMoO ₄ sensing electrode for detection of acetone. <i>Sensors and Actuators B: Chemical</i> , 2017 , 248, 9-18	8.5	25
147	Hydrothermal synthesis of Au@SnO ₂ hierarchical hollow microspheres for ethanol detection. <i>Sensors and Actuators B: Chemical</i> , 2020 , 319, 128299	8.5	25
146	Facile synthesis of nitrogen and sulfur co-doped carbon dots for multiple sensing capacities: alkaline fluorescence enhancement effect, temperature sensing, and selective detection of Fe ³⁺ ions. <i>New Journal of Chemistry</i> , 2018 , 42, 13147-13156	3.6	24
145	Facile synthesis of controllable TiO ₂ composite nanotubes via templating route: Highly sensitive detection of toluene by double driving from Pt@ZnO NPs. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 1676-1686	8.5	24
144	Porous FeO microflowers: Synthesis, structure, and enhanced acetone sensing performances. <i>Journal of Colloid and Interface Science</i> , 2017 , 505, 1039-1046	9.3	24
143	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	8.5	24
142	The DNA controllable peroxidase mimetic activity of MoS ₂ nanosheets for constructing a robust colorimetric biosensor. <i>Nanoscale</i> , 2020 , 12, 19420-19428	7.7	24
141	Hierarchical core/shell ZnO/NiO nanoheterojunctions synthesized by ultrasonic spray pyrolysis and their gas-sensing performance. <i>CrystEngComm</i> , 2016 , 18, 8101-8107	3.3	24
140	Sensitive fluorescence sensor for point-of-care detection of trypsin using glutathione-stabilized gold nanoclusters. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 366-372	8.5	24
139	Aluminum-doped NiO nanofibers as chemical sensors for selective and sensitive methanol detection. <i>Analytical Methods</i> , 2019 , 11, 575-581	3.2	23

138	High-response mixed-potential type planar YSZ-based NO ₂ sensor coupled with CoTiO ₃ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2019 , 287, 185-190	8.5	23
137	Humidity sensor based on solution processible microporous silica nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018 , 266, 131-138	8.5	23
136	Low operating temperature toluene sensor based on novel Fe ₂ O ₃ /SnO ₂ heterostructure nanowire arrays. <i>RSC Advances</i> , 2016 , 6, 52604-52610	3.7	23
135	Gas sensor based on samarium oxide loaded mulberry-shaped tin oxide for highly selective and sub ppm-level acetone detection. <i>Journal of Colloid and Interface Science</i> , 2018 , 531, 74-82	9.3	23
134	NASICON-based potentiometric Cl ₂ sensor combining NASICON with Cr ₂ O ₃ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2013 , 180, 66-70	8.5	23
133	Template-free synthesis of cubic-rhombohedral-In ₂ O ₃ flower for ppb level acetone detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 290, 459-466	8.5	22
132	One-pot synthesis of hierarchical WO ₃ hollow nanospheres and their gas sensing properties. <i>RSC Advances</i> , 2015 , 5, 29698-29703	3.7	22
131	3D inverse opal nanostructured multilayer films of two-component heterostructure composites: A new-generation synthetic route and potential application as high-performance acetone detector. <i>Sensors and Actuators B: Chemical</i> , 2018 , 276, 262-270	8.5	22
130	The influence of different ZnO nanostructures on NO ₂ sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129145	8.5	22
129	A rapid-response room-temperature planar type gas sensor based on DPA-Ph-DBPzDCN for the sensitive detection of NH ₃ . <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4744-4750	13	21
128	Sub-ppm YSZ-based mixed potential type acetone sensor utilizing columbite type composite oxide sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 928-937	8.5	21
127	New type of ammonia/toluene sensor combining NASICON with a couple of oxide electrodes. <i>Sensors and Actuators B: Chemical</i> , 2010 , 150, 355-359	8.5	21
126	Nafion-based amperometric H ₂ S sensor using Pt-Rh/C sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 635-641	8.5	21
125	The mixed potential type gas sensor based on stabilized zirconia and molybdate MMoO ₄ (M: Ni, Co and Zn) sensing electrode aiming at detecting triethylamine. <i>Sensors and Actuators B: Chemical</i> , 2018 , 267, 430-437	8.5	20
124	Fluorescent hydrogel test kit coordination with smartphone: Robust performance for on-site dimethoate analysis. <i>Biosensors and Bioelectronics</i> , 2019 , 145, 111706	11.8	20
123	Carbon dots decorated hierarchical litchi-like In ₂ O ₃ nanospheres for highly sensitive and selective NO ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127272	8.5	20
122	AuRh Alloy Nanocrystal-Decorated WO for Enhanced Detection of <i>n</i> -Butanol. <i>ACS Sensors</i> , 2019 , 4, 2662-2670	9.7	19
121	Highly sensitive detection of Pb and Cu based on ZIF-67/MWCNT/Nafion-modified glassy carbon electrode. <i>Analytica Chimica Acta</i> , 2020 , 1124, 166-175	6.6	19

120	Sb-doped three-dimensional ZnFe ₂ O ₄ macroporous spheres for N-butanol chemiresistive gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2020 , 320, 128384	8.5	19
119	Hydrothermally growth of novel hierarchical structures titanium dioxide for high efficiency dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 268, 19-24	8.9	19
118	Controlled synthesis of hierarchical Sn-doped Fe ₂ O ₃ with novel sheaf-like architectures and their gas sensing properties. <i>RSC Advances</i> , 2013 , 3, 7112	3.7	19
117	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	8.5	19
116	Polyaniline @ porous nanosphere SnO ₂ /Zn ₂ SnO ₄ nanohybrid for selective room temperature flexible NH ₃ sensor. <i>Sensors and Actuators B: Chemical</i> , 2020 , 317, 128218	8.5	18
115	Synthesis of hierarchical ZnO orientation-ordered film by chemical bath deposition and its gas sensing properties. <i>Materials Letters</i> , 2012 , 81, 145-147	3.3	18
114	Organic-inorganic hybrid materials based on mesoporous silica derivatives for humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2017 , 248, 803-811	8.5	18
113	Construction of multienzyme-hydrogel sensor with smartphone detector for on-site monitoring of organophosphorus pesticide. <i>Sensors and Actuators B: Chemical</i> , 2021 , 327, 128922	8.5	18
112	SnO ₂ /ZnSnO ₃ double-shelled hollow microspheres based high-performance acetone gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2021 , 332, 129212	8.5	18
111	Ultrafast-response stabilized zirconia-based mixed potential type triethylamine sensor utilizing CoMoO ₄ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2018 , 272, 433-440	8.5	18
110	NASICON-based gas sensor utilizing MMnO ₃ (M: Gd, Sm, La) sensing electrode for triethylamine detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 295, 56-64	8.5	17
109	Solid state electrolyte type gas sensor using stabilized zirconia and MTiO ₃ (M: Zn, Co and Ni)-SE for detection of low concentration of SO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126644	8.5	17
108	Mixed-potential-type YSZ-based sensor with nano-structured NiO and porous TPB processed with pore-formers using coating technique. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1321-1329	8.5	17
107	Monodisperse TiO ₂ mesoporous spheres with core-shell structure: candidate photoanode materials for enhanced efficiency dye sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 23396	3.7	17
106	Design of Ag@C@SnO ₂ @TiO ₂ yolk-shell nanospheres with enhanced photoelectric properties for dye sensitized solar cells. <i>Journal of Power Sources</i> , 2016 , 318, 49-56	8.9	17
105	Synthesis, characterization and gas sensing properties of porous flower-like indium oxide nanostructures. <i>RSC Advances</i> , 2015 , 5, 30297-30302	3.7	16
104	A Red-Emissive Fluorescent Probe with a Compact Single-Benzene-Based Skeleton for Cell Imaging of Lipid Droplets. <i>Advanced Optical Materials</i> , 2020 , 8, 1902123	8.1	16
103	Cobalt-doped ZnO nanoparticles derived from zeolite imidazole frameworks: Synthesis, characterization, and application for the detection of an exhaled diabetes biomarker. <i>Journal of Colloid and Interface Science</i> , 2020 , 569, 358-365	9.3	16

102	Interface interaction of MoS ₂ nanosheets with DNA based aptameric biosensor for carbohydrate antigen 15B detection. <i>Microchemical Journal</i> , 2020 , 155, 104675	4.8	16
101	Mixed-potential-type NO ₂ sensors based on stabilized zirconia and CeO ₂ -B ₂ O ₃ (B = Fe, Cr) binary nanocomposites sensing electrodes. <i>Sensors and Actuators B: Chemical</i> , 2018 , 266, 793-804	8.5	16
100	Gas sensing properties of flower-like ZnO prepared by a microwave-assisted technique. <i>RSC Advances</i> , 2014 , 4, 47319-47324	3.7	16
99	Direct growth of NiO films on Al ₂ O ₃ ceramics by electrochemical deposition and its excellent H ₂ S sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126619	8.5	15
98	Enhanced nitrogen oxide sensing performance based on tin-doped tungsten oxide nanoplates by a hydrothermal method. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 740-749	9.3	15
97	Three-dimensional flake-flower Co/Sn oxide composite and its excellent ethanol sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2016 , 230, 17-24	8.5	15
96	NASICON-based acetone sensor using three-dimensional three-phase boundary and Cr-based spinel oxide sensing electrode. <i>Solid State Ionics</i> , 2014 , 262, 283-287	3.3	15
95	Room temperature flexible NH ₃ sensor based on polyaniline coated Rh-doped SnO ₂ hollow nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2021 , 330, 129313	8.5	15
94	Facile synthesis of hollow In ₂ O ₃ microspheres and their gas sensing performances. <i>RSC Advances</i> , 2015 , 5, 4609-4614	3.7	14
93	High performance mixed-potential-type Zirconia-based NO ₂ sensor with self-organizing surface structures fabricated by low energy ion beam etching. <i>Sensors and Actuators B: Chemical</i> , 2018 , 263, 445-451	8.5	14
92	Solution-processed SnO ₂ nanoparticle interfacial layers for efficient electron transport in ZnO-based polymer solar cells. <i>Organic Electronics</i> , 2018 , 62, 373-381	3.5	14
91	Enhanced chlorine sensing performance of the sensor based NAISCON and Cr-series spinel-type oxide electrode with aging treatment. <i>Sensors and Actuators B: Chemical</i> , 2014 , 198, 26-32	8.5	14
90	High sensitivity and low detection limit of acetone sensor based on NiO/Zn ₂ SnO ₄ p-n heterojunction octahedrons. <i>Sensors and Actuators B: Chemical</i> , 2021 , 339, 129912	8.5	14
89	Highly sensitive C ₂ H ₂ gas sensor based on Ag modified ZnO nanorods. <i>Ceramics International</i> , 2020 , 46, 15764-15771	5.1	13
88	Hierarchical flower-like NiCo ₂ O ₄ applied in n-butanol detection at low temperature. <i>Sensors and Actuators B: Chemical</i> , 2020 , 320, 128577	8.5	13
87	Excellent gas sensing of hierarchical urchin-shaped Zn doped cadmium sulfide. <i>Journal of Alloys and Compounds</i> , 2019 , 773, 299-304	5.7	13
86	Mixed potential gas phase sensor using YSZ solid electrolyte and spinel-type oxides AMn ₂ O ₄ (A = Co, Zn and Cd) sensing electrodes. <i>Sensors and Actuators B: Chemical</i> , 2020 , 302, 127206	8.5	13
85	YSZ-based mixed-potential type highly sensitive acetylene sensor based on porous SnO ₂ /Zn ₂ SnO ₄ as sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2019 , 293, 166-172	8.5	12

84	Sub-ppm H ₂ S sensor based on NASICON and CoCr ₂ Mn _x O ₄ sensing electrode. <i>RSC Advances</i> , 2014 , 4, 55334-55340	3.7	12
83	Enhanced acetone sensing properties based on in-situ growth SnO ₂ nanotube arrays. <i>Nanotechnology</i> , 2021 ,	3.4	12
82	Acetone sensing with a mixed potential sensor based on Ce _{0.8} Gd _{0.2} O _{1.95} solid electrolyte and Sr ₂ MMoO ₆ (M: Fe, Mg, Ni) sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2019 , 284, 751-758	8.5	12
81	Enhanced resistive acetone sensing by using hollow spherical composites prepared from MoO and InO. <i>Mikrochimica Acta</i> , 2019 , 186, 359	5.8	11
80	Nafion-based methanol gas sensor for fuel cell vehicles. <i>Sensors and Actuators B: Chemical</i> , 2020 , 311, 127905	8.5	11
79	Novel three-dimensional TiO ₂ nanomesh synthesized by a one-pot hydrothermal method for application in dye sensitized solar cells. <i>RSC Advances</i> , 2013 , 3, 23389	3.7	11
78	3D TiO ₂ /ZnO composite nanospheres as an excellent electron transport anode for efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 51320-51326	3.7	11
77	YSZ-based solid electrolyte type sensor utilizing ZnMoO ₄ sensing electrode for fast detection of ppb-level H ₂ S. <i>Sensors and Actuators B: Chemical</i> , 2020 , 302, 127205	8.5	11
76	Mixed potential type acetone sensor based on GDC used for breath analysis. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 128846	8.5	11
75	Mixed potential type H ₂ S sensor based on stabilized zirconia and a Co ₂ SnO ₄ sensing electrode for halitosis monitoring. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128587	8.5	10
74	Enhanced gas sensing performance based on the PtCu octahedral alloy nanocrystals decorated SnO ₂ nanoclusters. <i>Sensors and Actuators B: Chemical</i> , 2021 , 330, 129375	8.5	10
73	Double shell Cu ₂ O hollow microspheres as sensing material for high performance n-propanol sensor. <i>Sensors and Actuators B: Chemical</i> , 2021 , 333, 129540	8.5	10
72	Preparation of Ce-doped SnO ₂ cuboids with enhanced 2-butanone sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2021 , 341, 130039	8.5	10
71	Unexpected and enhanced electrostatic adsorption capacity of oxygen vacancy-rich cobalt-doped In ₂ O ₃ for high-sensitive MEMS toluene sensor. <i>Sensors and Actuators B: Chemical</i> , 2021 , 342, 129949	8.5	10
70	Fuel cell type H ₂ S sensor utilizing Pt-Sn-C/Nafion sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2019 , 299, 126972	8.5	9
69	Mixed-potential type triethylamine sensor based on NASICON utilizing SmMO ₃ (M = Al, Cr, Co) sensing electrodes. <i>Sensors and Actuators B: Chemical</i> , 2019 , 284, 110-117	8.5	9
68	Mixed potential type acetone sensor based on Ce _{0.8} Gd _{0.2} O _{1.95} and Bi _{0.5} La _{0.5} FeO ₃ sensing electrode used for the detection of diabetic ketosis. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126688	8.5	9
67	Stabilized zirconia-based acetone sensor utilizing Fe ₂ TiO ₅ -TiO ₂ sensing electrode for noninvasive diagnosis of diabetics. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128489	8.5	9

66	Pyrochlore Ca-doped Gd ₂ Zr ₂ O ₇ solid state electrolyte type sensor coupled with ZnO sensing electrode for sensitive detection of HCHO. <i>Sensors and Actuators B: Chemical</i> , 2020 , 309, 127768	8.5	9
65	Novel NASICON-based H ₂ sensor with insensitive reference electrode and buried Au sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 77-83	8.5	9
64	Ni-based tantalate sensing electrode for fast and low detection limit of acetone sensor combining stabilized zirconia. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127375	8.5	9
63	Microwave-assisted hydrothermal synthesis of Pt/SnO ₂ gas sensor for CO detection. <i>Chinese Chemical Letters</i> , 2020 , 31, 2029-2032	8.1	9
62	Design of SnO ₂ @Air@TiO ₂ hierarchical urchin-like double-hollow nanospheres for high performance dye-sensitized solar cells. <i>Solar Energy</i> , 2019 , 189, 412-420	6.8	8
61	Progress in NASICON-based mixed-potential type gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 187, 522-532	8.5	8
60	Synthesis and NO ₂ gas-sensing properties of coral-like indium oxide via a facile solvothermal method. <i>RSC Advances</i> , 2017 , 7, 49273-49278	3.7	8
59	Effect of the matrix plasticization behavior on mechanical properties of PVC/ABS blends. <i>Journal of Polymer Engineering</i> , 2017 , 37, 239-245	1.4	8
58	Investigation of doping effects of different noble metals for ethanol gas sensors based on mesoporous InO. <i>Nanotechnology</i> , 2021 , 32,	3.4	8
57	MOF-Derived Mesoporous and Hierarchical Hollow-Structured InO-NiO Composites for Enhanced Triethylamine Sensing. <i>ACS Sensors</i> , 2021 , 6, 3451-3461	9.2	8
56	Co-PBA MOF-derived hierarchical hollow Co ₃ O ₄ @NiO microcubes functionalized with Pt for superior H ₂ S sensing. <i>Sensors and Actuators B: Chemical</i> , 2021 , 342, 130028	8.5	8
55	Ethanol sensor using gadolinia-doped ceria solid electrolyte and double perovskite structure sensing material. <i>Sensors and Actuators B: Chemical</i> , 2021 , 349, 130771	8.5	8
54	Amperometric H ₂ S sensor based on a Pt-Ni alloy electrode and a proton conducting membrane. <i>Sensors and Actuators B: Chemical</i> , 2020 , 311, 127900	8.5	7
53	Au anchored three-dimensional macroporous NiO@CuO inverse opals for in-situ sensing of hydrogen peroxide secretion from living cells. <i>Sensors and Actuators B: Chemical</i> , 2019 , 297, 126729	8.5	7
52	Improvement of NO ₂ sensing characteristic for mixed potential type gas sensor based on YSZ and Rh/Co ₃ V ₂ O ₈ sensing electrode. <i>RSC Advances</i> , 2017 , 7, 49440-49445	3.7	7
51	A multi-platform sensor for selective and sensitive HS monitoring: Three-dimensional macroporous ZnO encapsulated by MOFs with small Pt nanoparticles.. <i>Journal of Hazardous Materials</i> , 2021 , 426, 128075	12.8	7
50	Stimulated Emission Depletion (STED) Super-Resolution Imaging with an Advanced Organic Fluorescent Probe: Visualizing the Cellular Lipid Droplets at the Unprecedented Nanoscale Resolution 2021 , 3, 516-524		7
49	N-pentanol sensor based on ZnO nanorods functionalized with Au catalysts. <i>Sensors and Actuators B: Chemical</i> , 2021 , 339, 129888	8.5	7

48	Triethylamine sensing with a mixed potential sensor based on Ce _{0.8} Gd _{0.2} O _{1.95} solid electrolyte and La _{1-x} Sr _x MnO ₃ (x = 0.1, 0.2, 0.3) sensing electrodes. <i>Sensors and Actuators B: Chemical</i> , 2021 , 327, 128830	8.5	7
47	Mixed potential type ppb-level acetaldehyde gas sensor based on stabilized zirconia electrolyte and a NiTiO ₃ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2020 , 320, 128329	8.5	6
46	Insight into the effect of the continuous testing and aging on the SO sensing characteristics of a YSZ (Yttria-stabilized Zirconia)-based sensor utilizing ZnGaO and Pt electrodes. <i>Journal of Hazardous Materials</i> , 2020 , 388, 121772	12.8	6
45	Sensitive sensing of enzyme-regulated biocatalytic reactions using gold nanoclusters-melanin-like polymer nanosystem. <i>Sensors and Actuators B: Chemical</i> , 2019 , 279, 281-288	8.5	6
44	Gas Sensor Based on Cobalt-Doped 3D Inverse Opal SnO ₂ for Air Quality Monitoring. <i>Sensors and Actuators B: Chemical</i> , 2021 , 130807	8.5	6
43	High performance flexible dye-sensitized solar cells base on multiple functional optimizations. <i>Solar Energy</i> , 2019 , 180, 423-428	6.8	5
42	Stabilized zirconia-based solid state electrochemical gas sensor coupled with CdTiO ₃ for acetylene detection. <i>Sensors and Actuators B: Chemical</i> , 2020 , 316, 128199	8.5	5
41	Ultrathin BiVO ₄ nanosheets sensing electrode for isopropanol sensor based on pyrochlore-Gd ₂ Zr ₂ O ₇ solid state electrolyte. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128478	8.5	5
40	Fast detection of alcohols by novel sea cucumber-like indium tungsten oxide. <i>Sensors and Actuators B: Chemical</i> , 2020 , 319, 128158	8.5	5
39	One-Pot Synthesis and Gas Sensitivities of SnO ₂ Hollow Microspheres. <i>Sensor Letters</i> , 2011 , 9, 856-860	0.9	5
38	Compact and planar type rapid response ppb-level SO ₂ sensor based on stabilized zirconia and SrMoO ₄ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2020 , 307, 127655	8.5	5
37	A dense diffusion barrier limiting current oxygen sensor for detecting full concentration range. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127521	8.5	5
36	Microwave-assisted synthesis of La/ZnO hollow spheres for trace-level H ₂ S detection. <i>Sensors and Actuators B: Chemical</i> , 2021 , 334, 129514	8.5	5
35	A TPA-DCPP organic semiconductor film-based room temperature NH ₃ sensor for insight into the sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2021 , 327, 128940	8.5	5
34	YSZ-based acetone sensor using a Cd ₂ SnO ₄ sensing electrode for exhaled breath detection in medical diagnosis. <i>Sensors and Actuators B: Chemical</i> , 2021 , 345, 130321	8.5	5
33	Toluene sensor combining NASICON with ZnTiO ₃ electrode. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 1103-1108	8.5	4
32	Production of MFe ₂ O ₄ (M = Zn, Ni, Cu, Co and Mn) multiple cavities microspheres with salt template to assemble a high-performance acetone gas sensor. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164054	5.7	4
31	Bimetallic PtRu alloy nanocrystal-functionalized flower-like WO ₃ for fast detection of xylene. <i>Sensors and Actuators B: Chemical</i> , 2022 , 351, 130950	8.5	4

30	Interface passivation and electron transport improvement via employing calcium fluoride for polymer solar cells. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 142-148	9.3	4
29	Highly sensitive mixed-potential type ethanol sensors based on stabilized zirconia and ZnNb ₂ O ₆ sensing electrode. <i>RSC Advances</i> , 2016 , 6, 27197-27204	3.7	4
28	The Introduction of Defects in Ti ₃ C ₂ T _x and Ti ₃ C ₂ T _x -Assisted Reduction of Graphene Oxide for Highly Selective Detection of ppb-Level NO ₂ . <i>Advanced Functional Materials</i> , 2108959	15.6	4
27	Detection of low concentration acetone utilizing semiconductor gas sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 5478-5484	2.1	3
26	Hydrothermal and sintering synthesis of porous sheet-like NiO for xylene gas sensor. <i>Materials Research Express</i> , 2019 , 6, 1150e6	1.7	3
25	Lower coordination Co ₃ O ₄ mesoporous hierarchical microspheres for comprehensive sensitization of triethylamine vapor sensor. <i>Journal of Hazardous Materials</i> , 2022 , 128469	12.8	3
24	Highly sensitive and selective xylene sensor based on p-p heterojunctions composites derived from off-stoichiometric cobalt tungstate. <i>Sensors and Actuators B: Chemical</i> , 2022 , 351, 130973	8.5	3
23	Highly efficient MoS ₂ /rGO electrocatalysts for triiodide reduction as Pt-free counter electrode for dye-sensitized solar cells. <i>Solar Energy</i> , 2021 , 220, 788-795	6.8	3
22	Solvent-controlled synthesis of full-color carbon dots and its application as a fluorescent food-tasting sensor for specific recognition of jujube species. <i>Sensors and Actuators B: Chemical</i> , 2021 , 342, 129963	8.5	3
21	Ultra-fast and low detection limit of H ₂ S sensor based on hydrothermal synthesized Cu ₇ S ₄ -CuO microflowers. <i>Sensors and Actuators B: Chemical</i> , 2021 , 350, 130847	8.5	3
20	High-performance ethanol sensor of wrinkled microspheres by spray pyrolysis. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130309	8.5	3
19	Hierarchical mesoporous zinc oxide microspheres for ethanol gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2022 , 357, 131333	8.5	2
18	Mixed potential type YSZ-based NO ₂ sensors with efficient three-dimensional three-phase boundary processed by electrospinning. <i>Sensors and Actuators B: Chemical</i> , 2022 , 354, 131219	8.5	2
17	Enhanced n-pentanol sensing performance by RuCu alloy nanoparticles decorated SnO ₂ nanoclusters. <i>Sensors and Actuators B: Chemical</i> , 2022 , 351, 130900	8.5	2
16	Novel quaternary oxide semiconductor for the application of gas sensors with long-term stability. <i>Journal of Colloid and Interface Science</i> , 2021 , 592, 186-194	9.3	2
15	Based Nafion gas sensor utilizing Pt-MO _x (MO _x = SnO ₂ , In ₂ O ₃ , CuO) sensing electrode for CH ₃ OH detection at room temperature in FCVs. <i>Sensors and Actuators B: Chemical</i> , 2021 , 346, 130543	8.5	2
14	Introduction of MWCNT for enhancing sensitivity of room-temperature mixed-potential type NO sensor attached with Ni-MOF sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2022 , 361, 131736	8.5	2
13	Ultra-high response acetone gas sensor based on ZnFe ₂ O ₄ pleated hollow microspheres prepared by green NaCl template. <i>Sensors and Actuators B: Chemical</i> , 2022 , 358, 131490	8.5	1

12	Revealing the correlation between gas selectivity and semiconductor energy band structure derived from off-stoichiometric spinel CdGa ₂ O ₄ . <i>Sensors and Actuators B: Chemical</i> , 2021 , 352, 131039	8.5	1
11	Room-Temperature Mixed-Potential Type ppb-Level NO Sensors Based on KFeO Electrolyte and Ni/Fe-MOF Sensing Electrodes. <i>ACS Sensors</i> , 2021 ,	9.2	1
10	PtCu nanocrystals with crystalline control: Twin defect-driven enhancement of acetone sensing. <i>Sensors and Actuators B: Chemical</i> , 2022 , 354, 131210	8.5	1
9	Machine Learning-Assisted Development of Sensitive Electrode Materials for Mixed Potential-Type NO Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50121-50131	9.5	1
8	Solvent-Dependent Synthesis of Okra-Shaped Co ₃ O ₄ for Acetone Gas Detection at Low Operation Temperatures. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3400-3410	4	1
7	High sensitivity and low detection limit of acetone sensor based on Ru-doped Co ₃ O ₄ flower-like hollow microspheres. <i>Sensors and Actuators B: Chemical</i> , 2022 , 363, 131839	8.5	1
6	Highly sensitive and selective NO ₂ gas sensor fabricated from Cu ₂ O-CuO microflowers. <i>Sensors and Actuators B: Chemical</i> , 2022 , 362, 131803	8.5	1
5	Bioinspired laccase-mimicking catalyst for on-site monitoring of thiram in paper-based colorimetric platform.. <i>Biosensors and Bioelectronics</i> , 2022 , 207, 114199	11.8	1
4	MOF-derived porous NiO/NiFe ₂ O ₄ nanocubes for improving the acetone detection. <i>Sensors and Actuators B: Chemical</i> , 2022 , 366, 131985	8.5	1
3	3-Aminopropyltriethoxysilane functionalized ZnO materials for improving the gas sensitivity to 2-butanone. <i>Sensors and Actuators B: Chemical</i> , 2022 , 363, 131845	8.5	0
2	NASICON-based H ₂ sensor using CoCrMnO ₄ insensitive reference electrode and buried Au sensing electrode. <i>Chemical Research in Chinese Universities</i> , 2014 , 30, 965-970	2.2	
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