

Wen Zeng

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257
papers

6,938
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42
h-index

71
g-index

269
ext. papers

8,460
ext. citations

4
avg, IF

6.99
L-index

#	Paper	IF	Citations
257	Room-temperature gas sensing of ZnO-based gas sensor: A review. <i>Sensors and Actuators A: Physical</i> , 2017 , 267, 242-261	3.9	566
256	Gas sensing mechanisms of metal oxide semiconductors: a focus review. <i>Nanoscale</i> , 2019 , 11, 22664-22684	7.4	286
255	Hydrothermal synthesis of hierarchical flower-like ZnO nanostructure and its enhanced ethanol gas-sensing properties. <i>Applied Surface Science</i> , 2018 , 427, 281-287	6.7	221
254	Quasi-one-dimensional metal-oxide-based heterostructural gas-sensing materials: A review. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1570-1585	8.5	171
253	Enhanced gas sensing properties by SnO ₂ nanosphere functionalized TiO ₂ nanobelts. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3544		152
252	Hydroxyl-Dependent Evolution of Oxygen Vacancies Enables the Regeneration of BiOCl Photocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 16620-16626	9.5	129
251	High sensitive and low-concentration sulfur dioxide (SO ₂) gas sensor application of heterostructure NiO-ZnO nanodisks. <i>Sensors and Actuators B: Chemical</i> , 2019 , 298, 126870	8.5	129
250	Gas-sensing performance enhancement in ZnO nanostructures by hierarchical morphology. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 492-499	8.5	128
249	Selective Detection of Formaldehyde Gas Using a Cd-Doped TiO ₂ -SnO ₂ Sensor. <i>Sensors</i> , 2009 , 9, 9029-38	3.8	121
248	Hydrogen sensing and mechanism of M-doped SnO ₂ (M=Cr ³⁺ , Cu ²⁺ and Pd ²⁺) nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2011 , 160, 455-462	8.5	120
247	Growth-controlled NiCo ₂ S ₄ nanosheet arrays with self-decorated nanoneedles for high-performance pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17652-17658	13	97
246	Sensitivity improvement of TiO ₂ -doped SnO ₂ to volatile organic compounds. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 43, 633-638	3	87
245	Self-Assembled Biomolecular 1D Nanostructures for Aqueous Sodium-Ion Battery. <i>Advanced Science</i> , 2018 , 5, 1700634	13.6	82
244	Nanosheet-assembled hierarchical SnO ₂ nanostructures for efficient gas-sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2016 , 231, 120-128	8.5	79
243	The hydrothermal synthesis of 3D hierarchical porous MoS ₂ microspheres assembled by nanosheets with excellent gas sensing properties. <i>Journal of Alloys and Compounds</i> , 2018 , 749, 355-362	5.7	73
242	Hollow, porous, and yttrium functionalized ZnO nanospheres with enhanced gas-sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2013 , 178, 53-62	8.5	72
241	Enhanced carbon monoxide sensing properties of TiO ₂ with exposed (0 0 1) facet: A combined first-principle and experimental study. <i>Applied Surface Science</i> , 2018 , 442, 507-516	6.7	70

240	Oxygen Adsorption on Anatase TiO ₂ (101) and (001) Surfaces from First Principles. <i>Materials Transactions</i> , 2010 , 51, 171-175	1.3	70
239	Synthesis of WO ₃ and its gas sensing: a review. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 4698-4707	2.1	69
238	Hydrothermal synthesis and controlled growth of hierarchical 3D flower-like MoS ₂ nanospheres assisted with CTAB and their NO ₂ gas sensing properties. <i>Applied Surface Science</i> , 2018 , 455, 276-282	6.7	69
237	Volatile organic compound sensing based on coral rock-like ZnO. <i>Materials Research Bulletin</i> , 2018 , 100, 259-264	5.1	67
236	Gas sensing mechanism and properties of Ce-doped SnO ₂ sensors for volatile organic compounds. <i>Materials Science in Semiconductor Processing</i> , 2012 , 15, 438-444	4.3	64
235	Assembly of 2D nanosheets into 3D flower-like NiO: Synthesis and the influence of petal thickness on gas-sensing properties. <i>Ceramics International</i> , 2016 , 42, 4567-4573	5.1	63
234	Hydrothermal synthesis of hierarchical flower-like SnO ₂ nanostructures with enhanced ethanol gas sensing properties. <i>Materials Research Bulletin</i> , 2014 , 57, 91-96	5.1	62
233	Competitive adsorption of SF ₆ decompositions on Ni-doped ZnO (100) surface: Computational and experimental study. <i>Applied Surface Science</i> , 2019 , 479, 185-197	6.7	61
232	Gas sensing performances and mechanism at atomic level of Au-MoS ₂ microspheres. <i>Applied Surface Science</i> , 2019 , 490, 124-136	6.7	60
231	Effects of different petal thickness on gas sensing properties of flower-like WO ₃ H ₂ O hierarchical architectures. <i>Applied Surface Science</i> , 2015 , 347, 73-78	6.7	60
230	Impact of Nb doping on gas-sensing performance of TiO ₂ thick-film sensors. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 141-149	8.5	60
229	Characterization and gas-sensing properties of NiO nanowires prepared through hydrothermal method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 52, 40-45	3	57
228	Gas-sensing property improvement of ZnO by hierarchical flower-like architectures. <i>Materials Letters</i> , 2011 , 65, 3384-3387	3.3	57
227	One-step hydrothermal fabrication of nanosheet-assembled NiO/ZnO microflower and its ethanol sensing property. <i>Ceramics International</i> , 2018 , 44, 19825-19830	5.1	56
226	NO ₂ and H ₂ sensing properties for urchin-like hexagonal WO ₃ based on experimental and first-principle investigations. <i>Ceramics International</i> , 2019 , 45, 6043-6050	5.1	55
225	Hydrothermal synthesis of variety low dimensional WS ₂ nanostructures. <i>Materials Letters</i> , 2014 , 129, 205-208	3.3	53
224	SDS-assisted hydrothermal synthesis of NiO flake-flower architectures with enhanced gas-sensing properties. <i>Applied Surface Science</i> , 2016 , 384, 304-310	6.7	52
223	Synthesis of multiple networked NiO nanostructures for enhanced gas sensing performance. <i>Materials Letters</i> , 2017 , 206, 80-83	3.3	52

222	Bimetal-organic framework MIL-53(Co-Fe): an efficient and robust electrocatalyst for the oxygen evolution reaction. <i>Nanoscale</i> , 2020 , 12, 67-71	7.7	50
221	Enhanced ethanol sensing and mechanism of Cr-doped ZnO nanorods: Experimental and computational study. <i>Ceramics International</i> , 2017 , 43, 14873-14879	5.1	49
220	New insight into gas sensing performance of nanoneedle-assembled and nanosheet-assembled hierarchical NiO nanoflowers. <i>Materials Letters</i> , 2017 , 195, 217-219	3.3	48
219	A novel coral rock-like ZnO and its gas sensing. <i>Materials Letters</i> , 2017 , 209, 244-246	3.3	45
218	Atomic-scale structure and electronic property of the LaAlO ₃ /TiO ₂ interface. <i>Journal of Applied Physics</i> , 2010 , 108, 113701	2.5	45
217	Performance of Intrinsic and Modified Graphene for the Adsorption of HS and CH: A DFT Study. <i>Nanomaterials</i> , 2020 , 10,	5.4	43
216	Highly reactive 0D ZnS nanospheres and nanoparticles for formaldehyde gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017 , 239, 1243-1250	8.5	43
215	Large scale hydrothermal synthesis of monodisperse hexagonal WO ₃ nanowire and the growth mechanism. <i>Materials Letters</i> , 2015 , 147, 12-15	3.3	42
214	Controlled synthesis of monodisperse WO ₃ ·H ₂ O square nanoplates and their gas sensing properties. <i>Applied Surface Science</i> , 2015 , 349, 380-386	6.7	42
213	A novel cactus-like WO ₃ -SnO ₂ nanocomposite and its acetone gas sensing properties. <i>Materials Letters</i> , 2018 , 231, 5-7	3.3	42
212	Recognition of carbon monoxide with SnO ₂ /Ti thick-film sensor and its gas-sensing mechanism. <i>Sensors and Actuators B: Chemical</i> , 2014 , 191, 1-8	8.5	41
211	Adsorption of SO ₂ molecule on Ni-doped and Pd-doped graphene based on first-principle study. <i>Applied Surface Science</i> , 2020 , 517, 146180	6.7	40
210	Hydrothermal synthesis of assembled sphere-like WO ₃ architectures and their gas-sensing properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1467-1472	3	39
209	Hydrothermal synthesis, characterization of h-WO ₃ nanowires and gas sensing of thin film sensor based on this powder. <i>Thin Solid Films</i> , 2015 , 584, 294-299	2.2	38
208	Hydrothermal synthesis of novel SnO ₂ nanoflowers and their gas-sensing properties. <i>Materials Letters</i> , 2013 , 104, 34-36	3.3	38
207	Reducing the tension-compression yield asymmetry in a hot-rolled Mg ₉₇ Al ₃ Zn alloy via multidirectional pre-compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 96-101	5.3	38
206	Synthesis of morphology and size-controllable SnO ₂ hierarchical structures and their gas-sensing performance. <i>Applied Surface Science</i> , 2018 , 457, 1064-1071	6.7	36
205	Synthesis of multifarious hierarchical flower-like SnO ₂ and their gas-sensing properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 54, 313-318	3	36

204	Synthesis of boron nitride nanosheets with a few atomic layers and their gas-sensing performance. <i>Ceramics International</i> , 2016 , 42, 971-975	5.1	35
203	Hydrothermal synthesis of controlled morphologies of MoO ₃ nanobelts and hierarchical structures. <i>Materials Letters</i> , 2015 , 154, 170-172	3.3	35
202	New insight into gas sensing property of ZnO nanorods and nanosheets. <i>Materials Letters</i> , 2018 , 228, 331-333	3.3	35
201	Hydrothermal synthesis and gas sensing properties of WO ₃ H ₂ O with different morphologies. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 56, 183-188	3	35
200	Rapid and sensitive ethanol sensor based on hollow Au/V ₂ O ₅ nanotubes via emulsion-electrospinning route. <i>Materials Research Bulletin</i> , 2015 , 65, 157-162	5.1	34
199	Adsorption of H ₂ O molecule on TM (Au, Ag) doped-MoS ₂ monolayer: A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 113, 72-78	3	33
198	A simple preparation of ZnO nanocones and exposure to formaldehyde. <i>Materials Letters</i> , 2014 , 128, 35-38	3.3	33
197	Preparation, characterization and gas sensing properties of sub-micron porous WO ₃ spheres. <i>Materials Letters</i> , 2014 , 117, 41-44	3.3	33
196	Gas sensing mechanism of dissolved gases in transformer oil on Ag/MoS ₂ monolayer: A DFT study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 118, 113947	3	33
195	Hydrothermal synthesis of different TiO ₂ nanostructures: structure, growth and gas sensor properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 2024-2029	2.1	32
194	Facile synthesis of NiO nanowires and their gas sensing performance. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, s100-s104	3.3	32
193	Synthesis of NiO nanostructures from 1D to 3D and researches of their gas-sensing properties. <i>Materials Research Bulletin</i> , 2013 , 48, 449-454	5.1	32
192	Nanobelt-assembled nest-like MoO ₃ hierarchical structure: Hydrothermal synthesis and gas-sensing properties. <i>Materials Letters</i> , 2015 , 160, 476-479	3.3	31
191	New insight into gas sensing performance of nanorods assembled and nanosheets assembled hierarchical WO ₃ H ₂ O structures. <i>Materials Letters</i> , 2019 , 235, 49-52	3.3	31
190	Hydrothermal synthesis of SnO ₂ nanocorals, nanofragments and nanograss and their formaldehyde gas-sensing properties. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 1495-1501	4.3	30
189	Adsorption of SF ₆ decomposition gases (H ₂ S, SO ₂ , SOF ₂ and SO ₂ F ₂) on Sc-doped MoS ₂ surface: A DFT study. <i>Applied Surface Science</i> , 2021 , 549, 149271	6.7	30
188	A non-oxygen adsorption mechanism for hydrogen detection of nanostructured SnO ₂ based sensors. <i>Materials Research Bulletin</i> , 2019 , 109, 108-116	5.1	29
187	Polyhedral Cu ₂ O crystal: Morphology evolution from meshed nanocube to solid and gas-sensing performance. <i>Journal of Alloys and Compounds</i> , 2017 , 712, 50-58	5.7	28

186	Porous MoS ₂ microspheres decorated with Cu ₂ O nanoparticles for ammonia sensing property. <i>Materials Letters</i> , 2019 , 241, 223-226	3-3	28
185	Urchinlike hex-WO ₃ microspheres: Hydrothermal synthesis and gas-sensing properties. <i>Materials Letters</i> , 2015 , 144, 106-109	3-3	28
184	Hydrothermal synthesis of WO ₃ ·H ₂ O with different nanostructures from 0D to 3D and their gas sensing properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 79, 127-132	3	28
183	Fabrication of hierarchical hollow NiO/ZnO microspheres for ethanol sensing property. <i>Materials Letters</i> , 2018 , 230, 297-299	3-3	28
182	Hydrothermal Synthesis of SnO Nanoneedle-Anchored NiO Microsphere and its Gas Sensing Performances. <i>Nanomaterials</i> , 2019 , 9,	5-4	27
181	HMT assisted hydrothermal synthesis of various ZnO nanostructures: Structure, growth and gas sensor properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011 , 44, 680-685	3	27
180	Gas-sensing properties and mechanisms of Cu-doped SnO ₂ spheres towards H ₂ S. <i>Ceramics International</i> , 2016 , 42, 10006-10013	5-1	26
179	Hydrothermal synthesis and gas sensing properties of variety low dimensional nanostructures of SnO ₂ . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 47, 116-121	3	26
178	The n-butanol gas-sensing properties of monoclinic scheelite BiVO ₄ nanoplates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 103, 71-75	3	26
177	Hydrothermal synthesis of novel NiO nanoflowers assisted with CTAB and SDS respectively and their gas-sensing properties. <i>Materials Letters</i> , 2017 , 186, 175-177	3-3	25
176	Synthesis of multifarious hierarchical flower-like NiO and their gas-sensing properties. <i>Materials Research Bulletin</i> , 2013 , 48, 2730-2736	5-1	25
175	Enhanced ethanol gas-sensing property based on hollow MoO ₃ microcages. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 106, 170-175	3	24
174	Recent developments on anode materials for magnesium-ion batteries: a review. <i>Rare Metals</i> , 2021 , 40, 290-308	5-5	24
173	Hydrothermal fabrication of uniform hexagonal NiO nanosheets: Structure, growth and response. <i>Materials Letters</i> , 2013 , 102-103, 43-46	3-3	23
172	Enhanced hydrogen gas sensing properties of Pd-doped SnO ₂ nanofibres by Ar plasma treatment. <i>Ceramics International</i> , 2020 , 46, 1609-1614	5-1	23
171	Volatile Organic Compounds Gas Sensors Based on Molybdenum Oxides: A Mini Review. <i>Frontiers in Chemistry</i> , 2020 , 8, 339	5	22
170	In situ formation of CoO hollow nanocubes on carbon cloth-supported NiCoO nanowires and their enhanced performance in non-enzymatic glucose sensing. <i>Nanotechnology</i> , 2020 , 31, 265501	3-4	22
169	Hierarchical WO ₃ -NiO microflower for high sensitivity detection of SF decomposition byproduct HS. <i>Nanotechnology</i> , 2020 , 31, 215701	3-4	22

168	New insights into multi-hierarchical nanostructures with size-controllable blocking units for their gas sensing performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 10847-10852	2.1	21
167	Hydrothermal synthesis of assembled WO ₃ ·H ₂ O nanoflowers with enhanced gas sensing performance. <i>Materials Letters</i> , 2016 , 171, 162-165	3.3	20
166	Hydrothermal synthesis of flower-like SnO ₂ architectures with superior gas sensing properties. <i>Materials Letters</i> , 2015 , 145, 133-136	3.3	20
165	Embedded ZnO nanorods and gas-sensing properties. <i>Ceramics International</i> , 2015 , 41, 4861-4866	5.1	19
164	A novel approach for fabricating NiO hollow spheres for gas sensors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 97, 314-316	3	19
163	Shape control of Co ₃ O ₄ micro-structures for high-performance gas sensor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 95, 121-124	3	19
162	Hydrothermal synthesis of flake-flower NiO architectures: Structure, growth and gas-sensing properties. <i>Materials Letters</i> , 2016 , 171, 200-203	3.3	19
161	Large scale synthesis of flower-like SnO ₂ nanostructures via a facile hydrothermal route. <i>Materials Letters</i> , 2013 , 113, 42-45	3.3	19
160	Ni-doped SnO ₂ /g-C ₃ N ₄ nanocomposite with enhanced gas sensing performance for the effective detection of acetone in diabetes diagnosis. <i>Sensors and Actuators B: Chemical</i> , 2021 , 334, 129666	8.5	19
159	Hierarchical composites of MoS ₂ nanoflower anchored on SnO ₂ nanofiber for methane sensing. <i>Ceramics International</i> , 2019 , 45, 22981-22986	5.1	18
158	UV-enhanced ethanol sensor based on nanorod-assembled flower-like ZnO. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 94, 123-125	3	18
157	Synthesis of hierarchical flower-like NiO and the influence of surfactant. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 85, 13-18	3	18
156	Synthesis of unique ZnO/SnO ₂ core-shell structural microspheres and their gas-sensing properties. <i>Materials Letters</i> , 2012 , 89, 5-8	3.3	18
155	A novel porous NiO nanosheet and its H ₂ sensing performance. <i>Materials Letters</i> , 2019 , 245, 166-169	3.3	17
154	Adsorption behavior of Rh-doped MoS ₂ monolayer towards SO ₂ , SOF ₂ , SO ₂ F ₂ based on DFT study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 122, 114224	3	17
153	Synthesis of multifarious hierarchical flower-like NiO and their gas-sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 9410-9416	2.1	17
152	Cr-doped MnO ₂ nanostructure: morphology evolution and electrochemical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 3265-3270	2.1	17
151	Synthesis and controlled growth of monodisperse WO ₃ ·H ₂ O square nanoplates with the assistance of malic acid. <i>Materials Letters</i> , 2013 , 113, 13-16	3.3	17

150	New insight into the gas sensing performance of SnO ₂ Nanorod-assembled urchins based on their assembly density. <i>Ceramics International</i> , 2017 , 43, 728-735	5.1	17
149	Enhanced H ₂ S sensor based on electrospun mesoporous SnO ₂ nanotubes. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 9152-9157	2.1	16
148	Enhancement of NH ₃ sensing performance in flower-like ZnO nanostructures and their growth mechanism. <i>Applied Surface Science</i> , 2015 , 357, 31-36	6.7	16
147	UV-enhanced hydrogen sensor based on nanocone-assembled 3D SnO ₂ at low temperature. <i>Materials Letters</i> , 2015 , 161, 648-651	3.3	16
146	Dissolved gas analysis in transformer oil using Sb-doped graphene: A DFT study. <i>Applied Surface Science</i> , 2020 , 533, 147509	6.7	16
145	A novel WO ₃ ·H ₂ O nanostructure assembled with nanorods: Hydrothermal synthesis, growth and their gas sensing properties. <i>Materials Letters</i> , 2016 , 180, 51-54	3.3	16
144	A Review of Electrode for Rechargeable Magnesium Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 12-25	1.3	16
143	Highly sensitive non-enzymatic glucose sensor based on porous NiCo ₂ O ₄ nanowires grown on nickel foam. <i>Materials Letters</i> , 2019 , 256, 126603	3.3	15
142	Assembly of 2D nanosheets into flower-like MoO ₃ : New insight into the petal thickness affect on gas-sensing properties. <i>Materials Research Bulletin</i> , 2019 , 118, 110476	5.1	15
141	Nanosheet-assembled hierarchical WO ₃ flower-like nanostructures: Hydrothermal synthesis and NH ₃ -sensing properties. <i>Materials Letters</i> , 2019 , 250, 155-158	3.3	15
140	Hydrothermal synthesis of SnO ₂ nanocubes and nanospheres and their gas sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 2871-2878	2.1	15
139	Controllability of assemblage from WO ₃ ·H ₂ O nanoplates to nanoflowers with the assistance of oxalic acid. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 6676-6682	2.1	15
138	Hydrothermal synthesis of NiO nanobelts and the effect of sodium oxalate. <i>Materials Letters</i> , 2015 , 156, 25-27	3.3	15
137	Novel NiO flower-like microspheres with abundant nanoparticles adhering to the petals: Hydrothermal synthesis and their gas sensing properties. <i>Materials Letters</i> , 2016 , 173, 107-110	3.3	15
136	Theoretical and experimental investigations on H ₂ sensing properties of flower-like titanium dioxide. <i>Materials Research Bulletin</i> , 2018 , 107, 139-146	5.1	15
135	Synthesis and characterization of flower-like WS ₂ nanospheres via a facile hydrothermal route. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 4300-4305	2.1	15
134	Substrate-free synthesis of WO ₃ nanorod arrays and their superb NH ₃ -sensing performance. <i>Materials Letters</i> , 2017 , 209, 342-344	3.3	15
133	Highly sensitive and selective acetylene sensors based on p-n heterojunction of NiO nanoparticles on flower-like ZnO structures. <i>Ceramics International</i> , 2019 , 45, 19635-19643	5.1	14

132	Hydrothermal synthesis of novel flower-needle NiO architectures: Structure, growth and gas response. <i>Materials Letters</i> , 2015 , 159, 385-388	3.3	14
131	Enhanced ethanol sensing performance using Co ₃ O ₄ /ZnSnO ₃ arrays prepared on alumina substrates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 117, 113825	3	14
130	The solvothermal synthesis of the cobweb-like WO ₃ and its enhanced gas-sensing property. <i>Materials Letters</i> , 2017 , 188, 334-337	3.3	13
129	A novel seawave-like hierarchical WO ₃ nanocomposite and its ammonia gas properties. <i>Materials Letters</i> , 2019 , 248, 86-88	3.3	13
128	Density-dependent of gas-sensing properties of Co ₃ O ₄ nanowire arrays. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 118, 113956	3	13
127	Hydrothermal synthesis of different SnO ₂ nanosheets with CO gas sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 3701-3706	2.1	13
126	The potential application of VS ₂ as an electrode material for Mg ion battery: A DFT study. <i>Applied Surface Science</i> , 2021 , 544, 148775	6.7	13
125	CdO-ZnO nanorices for enhanced and selective formaldehyde gas sensing applications. <i>Environmental Research</i> , 2021 , 200, 111377	7.9	13
124	Computational study of surface orientation effect of rutile TiO ₂ on H ₂ S and CO sensing mechanism. <i>Applied Surface Science</i> , 2019 , 495, 143619	6.7	12
123	Unique hierarchical Ce-doped NiO microflowers with enhanced gas sensing performance. <i>Materials Letters</i> , 2019 , 251, 61-64	3.3	12
122	CoMoO ₄ nanosheets assembled 3D-frameworks for high-performance energy storage. <i>Ceramics International</i> , 2018 , 44, 2446-2452	5.1	12
121	Hierarchical WO ₃ porous microspheres and their sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 1512-1516	2.1	12
120	Hydrothermal synthesis of ultrathin ZnO nanosheets and their gas-sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 1764-1769	2.1	12
119	Hydrothermal synthesis of the sealed ZnO nanotube and its growth mechanism. <i>Materials Letters</i> , 2015 , 143, 12-15	3.3	12
118	Hydrothermal synthesis and growth mechanisms of different ZnO nanostructures and their gas-sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 1347-1353	2.1	12
117	Carbon monoxide sensing mechanism of highly oriented TiO ₂ from first principles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1567-1571	3	12
116	Atomic and electronic structures of Mg-doped perfect SrTiO ₃ and crystals containing oxygen vacancies from first principles. <i>Physica B: Condensed Matter</i> , 2011 , 406, 1420-1428	2.8	12
115	Metal oxide-based composite for non-enzymatic glucose sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 16111-16136	2.1	12

114	Nanomaterials for Sensing Applications. <i>Journal of Nanotechnology</i> , 2016 , 2016, 1-2	3.5	12
113	Preparation and Application of 2D MXene-Based Gas Sensors: A Review. <i>Chemosensors</i> , 2021 , 9, 225	4	12
112	Metal oxide gas sensors for detecting NO ₂ in industrial exhaust gas: Recent developments. <i>Sensors and Actuators B: Chemical</i> , 2022 , 359, 131579	8.5	12
111	A nest-like TiO ₂ nanostructures for excellent performance ethanol sensor. <i>Materials Letters</i> , 2019 , 248, 82-85	3.3	11
110	Synthesis of carbon fiber@nickel oxide nanosheet core@shells for high-performance supercapacitors. <i>RSC Advances</i> , 2015 , 5, 84238-84244	3.7	11
109	First principles study of oxygen adsorption on the anatase TiO ₂ (101) surface. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 67, 59-64	3	11
108	Ar plasma treatment on ZnO@SnO ₂ heterojunction nanofibers and its enhancement mechanism of hydrogen gas sensing. <i>Ceramics International</i> , 2020 , 46, 21439-21447	5.1	11
107	Hydrothermal synthesis of different 3D SnO ₂ nanostructures and their gas-sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2390-2397	2.1	11
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