

Synthesis of fast response, highly sensitive and selective

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Mesoporous WN/WO <sub>3</sub> -Composite Nanosheets for the Chemiresistive Detection of NO <sub>2</sub> at Room Temperature. <i>Inorganics</i> , 2016, 4, 24.	1.2	8
2	High sensitivity NO <sub>2</sub> sensor based on CuO/p-porous silicon heterojunction at room temperature. <i>Journal of Alloys and Compounds</i> , 2016, 685, 364-369.	2.8	59
3	Hydrothermally grown ZnO nanorods arrays for selective NO <sub>2</sub> gas sensing: Effect of anion generating agents. <i>Ceramics International</i> , 2016, 42, 12807-12814.	2.3	38
4	A mesoporous Ni <sub>3</sub> N/NiO composite with a core-shell structure for room temperature, selective and sensitive NO <sub>2</sub> gas sensing. <i>RSC Advances</i> , 2016, 6, 42917-42922.	1.7	6
5	Sr- and Ni-doping in ZnO nanorods synthesized by a simple wet chemical method as excellent materials for CO and CO <sub>2</sub> gas sensing. <i>RSC Advances</i> , 2016, 6, 82733-82742.	1.7	68
6	Synthesis of Co-doped SnO <sub>2</sub> nanofibers and their enhanced gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 425-432.	4.0	120
7	Multifunctional zinc oxide thin films for high-performance UV photodetectors and nitrogen dioxide gas sensors. <i>RSC Advances</i> , 2016, 6, 25641-25650.	1.7	77
8	Preparation and characterization of Cu <sub>x</sub> O <sub>1-y</sub> @ZnO <sub>1-<math>\hat{z}</math></sub> nanocomposites for enhanced room-temperature NO <sub>2</sub> sensing applications. <i>Applied Surface Science</i> , 2017, 401, 248-255.	3.1	26
9	Fabrication of hollow In <sub>2</sub> O <sub>3</sub> @ZnO microtubules by a simple biotemplate method and their gas-sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 958-962.	1.1	13
10	Light assisted room-temperature NO <sub>2</sub> sensors with enhanced performance based on black SnO <sub>1-<math>\hat{z}</math></sub> @ZnO <sub>1-<math>\hat{z}</math></sub> @SnO <sub>2-<math>\hat{z}</math></sub> nanocomposite coatings deposited by solution precursor plasma spray. <i>Ceramics International</i> , 2017, 43, 5990-5998.	2.3	18
11	Role of oxygen vacancy in tuning of optical, electrical and NO <sub>2</sub> sensing properties of ZnO <sub>1-x</sub> coatings at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 886-893.	4.0	102
12	Enhancement of gas sensing properties by the functionalization of ZnO-branched SnO <sub>2</sub> nanowires with Cr <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 656-666.	4.0	56
13	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.	4.0	107
14	Effects of Ni addition on the response of La <sub>2</sub> CuO <sub>4</sub> sensing electrode for NO sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 37-43.	4.0	5
15	ZnO/ST-Quartz SAW resonator: An efficient NO <sub>2</sub> gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 840-845.	4.0	81
16	Photon assisted room-temperature hydrogen sensors using PdO loaded WO <sub>3</sub> nanohybrids. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6425-6434.	3.8	46
17	Maize straw-templated hierarchical porous ZnO:Ni with enhanced acetone gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 1224-1230.	4.0	66
18	Controlled synthesis of Ni-doped ZnO hexagonal microdiscs and their gas sensing properties at low temperature. <i>Chemical Physics Letters</i> , 2017, 689, 92-99.	1.2	56

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19	Bottle-brush-shaped heterostructures of NiO@ZnO nanowires: growth study and sensing properties. <i>Nanotechnology</i> , 2017, 28, 465502.	1.3	10
20	High-performance reduced graphene oxide-based room-temperature NO <sub>2</sub> sensors: A combined surface modification of SnO <sub>2</sub> nanoparticles and nitrogen doping approach. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 269-279.	4.0	99
21	Enhanced UV Photodetector Response of ZnO/Si With AlN Buffer Layer. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 4161-4166.	1.6	25
22	Enhanced acetone gas sensing behavior of n-ZnO/p-NiO nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6666-6671.	1.1	29
23	C <sub>2</sub> H <sub>5</sub> OH and NO <sub>2</sub> sensing properties of ZnO nanostructures: correlation between crystal size, defect level and sensing performance. <i>RSC Advances</i> , 2018, 8, 5629-5639.	1.7	55
24	Single-step hydrothermally grown nanosheet-assembled tungsten oxide thin films for sensitive and selective NO <sub>2</sub> gas detection. <i>Journal of Materials Science</i> , 2018, 53, 6094-6105.	1.7	29
25	Contributions of tailored oxygen vacancies in ZnO/Al <sub>2</sub> O <sub>3</sub> composites to the enhanced ability for H <sub>2</sub> S removal at room temperature. <i>Fuel</i> , 2018, 215, 695-703.	3.4	54
26	Enhanced NO <sub>x</sub> Gas Sensing Properties of Ordered Mesoporous WO <sub>3</sub> /ZnO Prepared by Electroless Plating. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701167.	1.9	17
27	Direct growth of Al-doped ZnO ultrathin nanosheets on electrode for ethanol gas sensor application. <i>Applied Surface Science</i> , 2018, 447, 173-181.	3.1	69
28	ZnO thin film prepared by a sol-gel spin coating technique for NO <sub>2</sub> detection. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 227, 53-60.	1.7	80
29	Ultrasensitive ppb-level NO <sub>2</sub> gas sensor based on WO <sub>3</sub> hollow nanosphers doped with Fe. <i>Applied Surface Science</i> , 2018, 434, 891-897.	3.1	151
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32	Thin and ultrathin films of palladium oxide for oxidizing gases detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1335-1342.	4.0	16
33	A facile synthesis of hybrid nanocomposites of reduced graphene oxide/ZnO and its surface modification characteristics for ozone sensing. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3074-3086.	1.1	19
34	Oxygen Vacancies as an Efficient Strategy for Promotion of Low Concentration SO <sub>2</sub> Gas Sensing: The Case of Au-Modified SnO <sub>2</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13427-13434.	3.2	66
35	Nanorods to nanosheets structural evolution of Ni <sub>x</sub> Zn <sub>1-x</sub> O for NO <sub>2</sub> gas sensing application. <i>Journal of Alloys and Compounds</i> , 2018, 766, 941-951.	2.8	15
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38	TiO <sub>2</sub> /InVO <sub>4</sub> heterojunctions for efficient ammonia gas detection and their sensing mechanisms. <i>Journal of Materials Science</i> , 2019, 54, 13660-13673.	1.7	6
39	Development of Ni doped ZnO/polyaniline nanocomposites as high response room temperature NO <sub>2</sub> sensor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 247, 114381.	1.7	48
40	Improved ethanol vapor sensing properties of sputtered ZnO films by doping Ta. <i>Materials Today Communications</i> , 2019, 21, 100680.	0.9	2
41	Growth of Fe doped ZnO nanoellipsoids for selective NO <sub>2</sub> gas sensing application. <i>Chemical Physics Letters</i> , 2019, 734, 136725.	1.2	29
42	Superior Hydrogen Sensing Property of Porous NiO/SnO <sub>2</sub> Nanofibers Synthesized via Carbonization. <i>Nanomaterials</i> , 2019, 9, 1250.	1.9	24
43	Morphological Evolution Induced through a Heterojunction of W-Decorated NiO Nanofibers: Synergistic Effect on High-Performance Gas Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7529-7538.	4.0	39
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49	Self-Assembled Vanadium Oxide Nanoflakes for p-Type Ammonia Sensors at Room Temperature. <i>Nanomaterials</i> , 2019, 9, 317.	1.9	26
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52	Mechanism study on extraordinary room-temperature CO sensing capabilities of Pd-SnO <sub>2</sub> composite nanoceramics. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 49-55.	4.0	36
53	Modeling and analysis of an Ni:ZnO-based Schottky pattern for NO <sub>2</sub> detection. <i>Journal of Computational Electronics</i> , 2019, 18, 300-307.	1.3	24
54	NO <sub>2</sub> sensing properties of one-pot-synthesized ZnO nanowires with Pd functionalization. <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 151-161.	4.0	151

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55	Sol-gel derived aluminium doped zinc oxide thin films: A view of aluminium doping effect on physicochemical and NO <sub>2</sub> sensing properties. <i>Journal of Alloys and Compounds</i> , 2019, 775, 466-473.	2.8	30
56	Enhanced NO <sub>2</sub> gas sensing of a single-layer MoS <sub>2</sub> by photogating and piezo-phototronic effects. <i>Science Bulletin</i> , 2019, 64, 128-135.	4.3	92
57	IDE embedded tungsten trioxide gas sensor for sensitive NO <sub>2</sub> detection. <i>Materials Chemistry and Physics</i> , 2019, 224, 257-263.	2.0	19
58	Inkjet Seeded CVD-Grown Hydrogenated Diamond Gas Sensor Under UV-LED Illumination. <i>IEEE Sensors Journal</i> , 2020, 20, 1158-1165.	2.4	6
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67	Enhancing ZnO nanowire gas sensors using Au/Fe <sub>2</sub> O <sub>3</sub> hybrid nanoparticle decoration. <i>Nanotechnology</i> , 2020, 31, 325505.	1.3	7
68	Gas sensor towards n-butanol at low temperature detection: Hierarchical flower-like Ni-doped Co <sub>3</sub> O <sub>4</sub> based on solvent-dependent synthesis. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129028.	4.0	133
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70	Influence of Cu and Ni dopants on the sensing properties of ZnO gas sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 133-140.	1.1	5
71	Enhanced NO <sub>2</sub> gas sensing performance of Ni-doped ZnO nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 2219-2233.	1.1	22
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