

## List of Publications by Year in descending order

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134  
papers

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Resistance-based H <sub>2</sub> S gas sensors using metal oxide nanostructures: A review of recent advances. <i>Journal of Hazardous Materials</i> , 2018, 357, 314-331.	6.5	298
2	Recent advances in energy-saving chemiresistive gas sensors: A review. <i>Nano Energy</i> , 2021, 79, 105369.	8.2	282
3	Resistive-based gas sensors for detection of benzene, toluene and xylene (BTX) gases: a review. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4342-4370.	2.7	255
4	Resistive gas sensors based on metal-oxide nanowires. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	148
5	Synthesis of zinc oxide semiconductors-graphene nanocomposites by microwave irradiation for application to gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 590-601.	4.0	142
6	Nanostructured Metal Oxide-Based Acetone Gas Sensors: A Review. <i>Sensors</i> , 2020, 20, 3096.	2.1	135
7	Low power-consumption CO gas sensors based on Au-functionalized SnO <sub>2</sub> -ZnO core-shell nanowires. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 597-607.	4.0	118
8	How shell thickness can affect the gas sensing properties of nanostructured materials: Survey of literature. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 270-294.	4.0	117
9	Optimization and gas sensing mechanism of n-SnO <sub>2</sub> -p-Co <sub>3</sub> O <sub>4</sub> composite nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 500-511.	4.0	116
10	SnO <sub>2</sub> (n)-NiO (p) composite nanoweb: Gas sensing properties and sensing mechanisms. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 204-214.	4.0	115
11	Toluene- and benzene-selective gas sensors based on Pt- and Pd-functionalized ZnO nanowires in self-heating mode. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 78-88.	4.0	107
12	Design of supersensitive and selective ZnO-nanofiber-based sensors for H <sub>2</sub> gas sensing by electron-beam irradiation. <i>Sensors and Actuators B: Chemical</i> , 2019, 293, 210-223.	4.0	103
13	Synthesis, Characterization and Gas Sensing Properties of Ag@±-Fe <sub>2</sub> O <sub>3</sub> Core-Shell Nanocomposites. <i>Nanomaterials</i> , 2015, 5, 737-749.	1.9	102
14	Microwave assisted extraction as an efficient approach for biosynthesis of zinc oxide nanoparticles: Synthesis, characterization, and biological properties. <i>Materials Science and Engineering C</i> , 2017, 78, 1109-1118.	3.8	100
15	Sensing behavior to ppm-level gases and synergistic sensing mechanism in metal-functionalized rGO-loaded ZnO nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1884-1896.	4.0	100
16	Selective, sensitive, and stable NO <sub>2</sub> gas sensor based on porous ZnO nanosheets. <i>Applied Surface Science</i> , 2021, 568, 150910.	3.1	94
17	Improving the hydrogen sensing properties of SnO <sub>2</sub> nanowire-based conductometric sensors by Pd-decoration. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 358-367.	4.0	93
18	An overview on how Pd on resistive-based nanomaterial gas sensors can enhance response toward hydrogen gas. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20552-20571.	3.8	91

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19	Electrospun Metal Oxide Composite Nanofibers Gas Sensors: A Review. Journal of the Korean Ceramic Society, 2017, 54, 366-379.	1.1	90
20	Synthesis, characterization and gas sensing properties of ZnO-decorated MWCNTs. Applied Surface Science, 2017, 413, 242-252.	3.1	86
21	Realization of Au-decorated WS <sub>2</sub> nanosheets as low power-consumption and selective gas sensors. Sensors and Actuators B: Chemical, 2019, 296, 126659.	4.0	81
22	Characterization and optical studies of PVP-capped silver nanoparticles. Journal of Nanostructure in Chemistry, 2017, 7, 37-46.	5.3	80
23	Flexible and low power CO gas sensor with Au-functionalized 2D WS <sub>2</sub> nanoflakes. Sensors and Actuators B: Chemical, 2020, 313, 128040.	4.0	80
24	Synergistic effects of SnO <sub>2</sub> and Au nanoparticles decorated on WS <sub>2</sub> nanosheets for flexible, room-temperature CO gas sensing. Sensors and Actuators B: Chemical, 2021, 332, 129493.	4.0	79
25	A novel gas sensor based on Ag/Fe <sub>2</sub> O <sub>3</sub> core-shell nanocomposites. Ceramics International, 2016, 42, 18974-18982.	2.3	76
26	Attachment of Co <sub>3</sub> O <sub>4</sub> layer to SnO <sub>2</sub> nanowires for enhanced gas sensing properties. Sensors and Actuators B: Chemical, 2017, 239, 180-192.	4.0	76
27	Selective NO <sub>2</sub> sensor based on Bi <sub>2</sub> O <sub>3</sub> branched SnO <sub>2</sub> nanowires. Sensors and Actuators B: Chemical, 2018, 274, 356-369.	4.0	75
28	Low-Voltage-Driven Sensors Based on ZnO Nanowires for Room-Temperature Detection of NO <sub>2</sub> and CO Gases. ACS Applied Materials & Interfaces, 2019, 11, 24172-24183.	4.0	74
29	CO gas sensing properties of In <sub>4</sub> Sn <sub>3</sub> O <sub>12</sub> and TeO <sub>2</sub> composite nanoparticle sensors. Journal of Hazardous Materials, 2016, 305, 130-138.	6.5	73
30	Rapid and green synthesis of cadmium telluride quantum dots with low toxicity based on a plant-mediated approach after microwave and ultrasonic assisted extraction: Synthesis, characterization, biological potentials and comparison study. Materials Science and Engineering C, 2019, 98, 535-544.	3.8	71
31	Enhancement of H <sub>2</sub> S sensing performance of p-CuO nanofibers by loading p-reduced graphene oxide nanosheets. Sensors and Actuators B: Chemical, 2019, 281, 453-461.	4.0	71
32	Pd functionalization on ZnO nanowires for enhanced sensitivity and selectivity to hydrogen gas. Sensors and Actuators B: Chemical, 2019, 297, 126693.	4.0	70
33	Sm-doped cobalt ferrite nanoparticles: A novel sensing material for conductometric hydrogen leak sensor. Ceramics International, 2017, 43, 1029-1037.	2.3	69
34	Fe <sub>2</sub> O <sub>3</sub> /Co <sub>3</sub> O <sub>4</sub> composite nanoparticle ethanol sensor. Journal of the Korean Physical Society, 2016, 69, 373-380.	0.3	67
35	Extremely sensitive and selective sub-ppm CO detection by the synergistic effect of Au nanoparticles and core-shell nanowires. Sensors and Actuators B: Chemical, 2017, 249, 177-188.	4.0	63
36	Porous Si/SnO <sub>2</sub> nanowires heterostructures for H <sub>2</sub> S gas sensing. Ceramics International, 2020, 46, 604-611.	2.3	61

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37	Reduced Graphene Oxide (rGO)-Loaded Metal-Oxide Nanofiber Gas Sensors: An Overview. <i>Sensors</i> , 2021, 21, 1352.	2.1	60
38	Synthesis and characterization of mesoporous $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles and investigation of electrical properties of fabricated thick films. <i>Processing and Application of Ceramics</i> , 2016, 10, 209-217.	0.4	60
39	Enhancement of CO and NO <sub>2</sub> sensing in n-SnO <sub>2</sub> -p-Cu <sub>2</sub> O core-shell nanofibers by shell optimization. <i>Journal of Hazardous Materials</i> , 2019, 376, 68-82.	6.5	59
40	ZnO-capped nanorod gas sensors. <i>Ceramics International</i> , 2016, 42, 6187-6197.	2.3	56
41	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
42	Promotional effects of ZnO-branching and Au-functionalization on the surface of SnO <sub>2</sub> nanowires for NO <sub>2</sub> sensing. <i>Journal of Alloys and Compounds</i> , 2019, 786, 27-39.	2.8	56
43	Combination of Pd loading and electron beam irradiation for superior hydrogen sensing of electrospun ZnO nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 628-637.	4.0	56
44	Variation of shell thickness in ZnO-SnO <sub>2</sub> core-shell nanowires for optimizing sensing behaviors to CO, C <sub>6</sub> H <sub>6</sub> , and C <sub>7</sub> H <sub>8</sub> gases. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127150.	4.0	56
45	Realization of H <sub>2</sub> S sensing by Pd-functionalized networked CuO nanowires in self-heating mode. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126965.	4.0	54
46	Enhancement of gas sensing by implantation of Sb-ions in SnO <sub>2</sub> nanowires. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127307.	4.0	52
47	Effect of Ag on the ZnO nanoparticles properties as an ethanol vapor sensor. <i>Materials Science in Semiconductor Processing</i> , 2020, 117, 105172.	1.9	50
48	Gasochromic WO <sub>3</sub> Nanostructures for the Detection of Hydrogen Gas: An Overview. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1775.	1.3	49
49	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303001.	0.7	49
50	Hydrogen sensing properties and mechanism of NiO-Nb <sub>2</sub> O <sub>5</sub> composite nanoparticle-based electrical gas sensors. <i>Ceramics International</i> , 2017, 43, 5247-5254.	2.3	47
51	Facile synthesis of metal-organic framework-derived ZnO/CuO nanocomposites for highly sensitive and selective H <sub>2</sub> S gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130741.	4.0	47
52	Ultrasonic and microwave assisted extraction as rapid and efficient techniques for plant mediated synthesis of quantum dots: green synthesis, characterization of zinc telluride and comparison study of some biological activities. <i>New Journal of Chemistry</i> , 2019, 43, 15126-15138.	1.4	46
53	Co <sub>3</sub> O <sub>4</sub> -loaded ZnO nanofibers for excellent hydrogen sensing. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27499-27510.	3.8	44
54	Optimization of the surface coverage of metal nanoparticles on nanowires gas sensors to achieve the optimal sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127196.	4.0	44

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55	Selective H <sub>2</sub> S sensing without external heat by a synergy effect in self-heated CuO-functionalized SnO <sub>2</sub> -ZnO core-shell nanowires. <i>Sensors and Actuators B: Chemical</i> , 2019, 300, 126981.	4.0	42
56	Fabrication and gas sensing properties of vertically aligned Si nanowires. <i>Applied Surface Science</i> , 2018, 427, 215-226.	3.1	41
57	Significant Enhancement of Hydrogen-Sensing Properties of ZnO Nanofibers through NiO Loading. <i>Nanomaterials</i> , 2018, 8, 902.	1.9	41
58	Decoration of multi-walled carbon nanotubes with CuO/Cu <sub>2</sub> O nanoparticles for selective sensing of H <sub>2</sub> S gas. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130176.	4.0	41
59	Deep feature selection using a teacher-student network. <i>Neurocomputing</i> , 2020, 383, 396-408.	3.5	40
60	Preparation of n-ZnO/p-Co <sub>3</sub> O <sub>4</sub> heterojunctions from zeolitic imidazolate frameworks (ZIF-8/ZIF-67) for sensing low ethanol concentrations. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130684.	4.0	40
61	ppb-Level Selective Hydrogen Gas Detection of Pd-Functionalized In <sub>2</sub> O <sub>3</sub> -Loaded ZnO Nanofiber Gas Sensors. <i>Sensors</i> , 2019, 19, 4276.	2.1	39
62	Selective H <sub>2</sub> S-sensing performance of Si nanowires through the formation of ZnO shells with Au functionalization. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 1-14.	4.0	35
63	Hydrogen sensing characteristics of Pd-decorated ultrathin ZnO nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129222.	4.0	35
64	Facile and fast decoration of SnO <sub>2</sub> nanowires with Pd embedded SnO <sub>2</sub> -x nanoparticles for selective NO <sub>2</sub> gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129984.	4.0	35
65	Proton-beam engineered surface-point defects for highly sensitive and reliable NO <sub>2</sub> sensing under humid environments. <i>Journal of Hazardous Materials</i> , 2021, 416, 125841.	6.5	34
66	Boosting the sensing properties of resistive-based gas sensors by irradiation techniques: a review. <i>Nanoscale</i> , 2021, 13, 4728-4757.	2.8	33
67	SnO <sub>2</sub> nanowires decorated by insulating amorphous carbon layers for improved room-temperature NO <sub>2</sub> sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128801.	4.0	32
68	Synthesis and Selective Sensing Properties of rGO/Metal-Coloaded SnO <sub>2</sub> Nanofibers. <i>Journal of Electronic Materials</i> , 2017, 46, 3531-3541.	1.0	30
69	Realization of selective CO detection by Ni-incorporated metal-organic frameworks. <i>Sensors and Actuators B: Chemical</i> , 2020, 315, 128110.	4.0	30
70	Effect of Ag Addition on the Gas-Sensing Properties of Nanostructured Resistive-Based Gas Sensors: An Overview. <i>Sensors</i> , 2021, 21, 6454.	2.1	30
71	Indium-implantation-induced enhancement of gas sensing behaviors of SnO <sub>2</sub> nanowires by the formation of homo-core@shell structure. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128475.	4.0	29
72	Fabrication and characterization of Ru-doped $\text{SnO}_2$ nanowires for selective sensing of $\text{H}_2$ gas. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130176.	1.0	27

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73	Effect of microwave irradiation on the electrical and optical properties of SnO <sub>2</sub> thin films. <i>Ceramics International</i> , 2019, 45, 7723-7729.	2.3	27
74	A Review of Nanostructured Resistive-Based Vanadium Oxide Gas Sensors. <i>Chemosensors</i> , 2020, 8, 105.	1.8	27
75	Role of Ruthenium in the Dielectric, Magnetic Properties of Nickel Ferrite (Ru <sup>2+</sup> NiFe <sub>2</sub> O <sub>4</sub> ) Nanoparticles and Their Application in Hydrogen Sensors. <i>ACS Omega</i> , 2019, 4, 12919-12926.	1.6	26
76	Room-temperature NO <sub>2</sub> sensor based on electrochemically etched porous silicon. <i>Journal of Alloys and Compounds</i> , 2019, 811, 151975.	2.8	26
77	Exploration of the use of p-TeO <sub>2</sub> -branch/n-SnO <sub>2</sub> core nanowires nanocomposites for gas sensing. <i>Applied Surface Science</i> , 2019, 484, 1102-1110.	3.1	26
78	Nanostructured Semiconducting Metal Oxide Gas Sensors for Acetaldehyde Detection. <i>Chemosensors</i> , 2019, 7, 56.	1.8	26
79	Gas-sensing behaviors of TiO <sub>2</sub> -layer-modified SnO <sub>2</sub> quantum dots in self-heating mode and effects of the TiO <sub>2</sub> layer. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127870.	4.0	26
80	Chemical-recognition-driven selectivity of SnO <sub>2</sub> -nanowire-based gas sensors. <i>Nano Today</i> , 2021, 40, 101265.	6.2	25
81	Dual sensitization of MWCNTs by co-decoration with p- and n-type metal oxide nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 150-163.	4.0	23
82	Porous Si nanowires for highly selective room-temperature NO <sub>2</sub> gas sensing. <i>Nanotechnology</i> , 2018, 29, 294001.	1.3	23
83	Realization of low-temperature and selective NO <sub>2</sub> sensing of SnO <sub>2</sub> nanowires via synergistic effects of Pt decoration and Bi <sub>2</sub> O <sub>3</sub> branching. <i>Ceramics International</i> , 2021, 47, 5099-5111.	2.3	23
84	CuxO Nanostructure-Based Gas Sensors for H <sub>2</sub> S Detection: An Overview. <i>Chemosensors</i> , 2021, 9, 127.	1.8	23
85	Exploration of ZrO <sub>2</sub> -shelled nanowires for chemiresistive detection of NO <sub>2</sub> gas. <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128309.	4.0	23
86	Sonochemical synthesis of PEDOT:PSS intercalated ammonium vanadate nanofiber composite for room-temperature NH <sub>3</sub> sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128924.	4.0	22
87	Variational Relevant Sample-Feature Machine: A fully Bayesian approach for embedded feature selection. <i>Neurocomputing</i> , 2017, 241, 181-190.	3.5	21
88	Resistive-Based Gas Sensors Using Quantum Dots: A Review. <i>Sensors</i> , 2022, 22, 4369.	2.1	20
89	Hydrogen gas detection of Nb <sub>2</sub> O <sub>5</sub> nanoparticle-decorated CuO nanorod sensors. <i>Metals and Materials International</i> , 2017, 23, 214-219.	1.8	19
90	Electrowetting on dielectric (EWOD) properties of Teflon-coated electrosprayed silica layers in air and oil media and the influence of electric leakage. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6808-6815.	2.7	19

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91	Temperature on gas sensing properties of lithium Changes in characteristics of Pt-functionalized RGO nanocomposites by electron beam irradiation for room temperature NO <sub>2</sub> sensing. Ceramics International, 2020, 46, 21638-21646.	1.8	19
92	Excellent Carbon Monoxide Sensing Performance of Au-Decorated SnO <sub>2</sub> Nanofibers. Korean Journal of Materials Research, 2016, 26, 741-750.	0.1	19
94	Converting the Conducting Behavior of Graphene Oxides from n-Type to p-Type via Electron-Beam Irradiation. ACS Applied Materials & Interfaces, 2018, 10, 7324-7333.	4.0	18
95	Improvement of NO <sub>2</sub> Sensing Properties in Pd Functionalized Reduced Graphene Oxides by Electron-Beam Irradiation. Frontiers in Materials, 2019, 6, .	1.2	18
96	Changes in the crystal structure of SnO <sub>2</sub> nanoparticles and improved H <sub>2</sub> S gas-sensing characteristics by Al doping. Applied Surface Science, 2021, 565, 150493.	3.1	18
97	Electrochemical Properties of Ag@iron Oxide Nanocomposite for Application as Nitrate Sensor. Electroanalysis, 2015, 27, 2654-2662.	1.5	17
98	Synthesis and gas sensing properties of membrane template-grown hollow ZnO nanowires. Nano Convergence, 2017, 4, 27.	6.3	17
99	Achievement of self-heated sensing of hazardous gases by WS <sub>2</sub> (core)@SnO <sub>2</sub> (shell) nanosheets. Journal of Hazardous Materials, 2021, 412, 125196.	6.5	17
100	Selective CO gas sensing by Au-decorated WS <sub>2</sub> -SnO <sub>2</sub> core-shell nanosheets on flexible substrates in self-heating mode. Sensors and Actuators B: Chemical, 2022, 353, 131197.	4.0	17
101	Hydrogen Sensing Properties of Co-Doped ZnO Nanoparticles. Chemosensors, 2018, 6, 61. Room temperature LPG sensing properties of tin substituted copper ferrite	1.8	16
102			

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109	Pd-decorated Si nano-horns as sensitive and selective hydrogen gas sensors. <i>Materials Research Bulletin</i> , 2020, 132, 110985.	2.7	14
110	Effect of Nb doping on sintering and dielectric properties of PZT ceramics. <i>Processing and Application of Ceramics</i> , 2016, 10, 175-182.	0.4	13
111	Selective ethanol sensor based on $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Inorganic Chemistry Communication</i> , 2021, 133, 108961.	1.8	13
112	Room temperature NO <sub>2</sub> sensing performance of a-C-decorated TeO <sub>2</sub> nanowires. <i>Sensors and Actuators B: Chemical</i> , 2022, 363, 131853.	4.0	12
113	Synthesis and characterization of nanocrystalline PZT powders: From sol to dense ceramics. <i>Processing and Application of Ceramics</i> , 2016, 10, 9-16.	0.4	11
114	Incorporation of metal nanoparticles in soda-lime glass sensors for enhancing selective sensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126673.	4.0	11
115	Enhancement of room temperature ethanol sensing behavior of PbS@SnS <sub>2</sub> nanocomposite by Au decoration. <i>Materials Science in Semiconductor Processing</i> , 2021, 127, 105742.	1.9	11
116	Promotional effect of nitric acid treatment on co sensing properties of SnO <sub>2</sub> /MWCNT nanocomposites. <i>Processing and Application of Ceramics</i> , 2016, 10, 97-105.	0.4	11
117	Acetone Sensors Based on In <sub>2</sub> O <sub>3</sub> @Co <sub>3</sub> O <sub>4</sub> Composite Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4087-4090.	0.9	10
118	A Novel X-Ray Radiation Sensor Based on Networked SnO <sub>2</sub> Nanowires. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4878.	1.3	10
119	Combination of plant-mediated and sonochemical-assisted synthesis for preparation of low-toxic cadmium selenide semiconductor nanoparticles: Study of the effect of extraction techniques, characterization, comparative study of biological activities. <i>Surfaces and Interfaces</i> , 2021, 25, 101182.	1.5	8
120	How femtosecond laser irradiation can affect the gas sensing behavior of SnO <sub>2</sub> nanowires toward reducing and oxidizing gases. <i>Sensors and Actuators B: Chemical</i> , 2021, 342, 130036.	4.0	8
121	Hydrothermally synthesized flower-like vanadium oxide nanostructures for ethanol sensing studies. <i>Materials Science in Semiconductor Processing</i> , 2022, 137, 106241.	1.9	7
122	Inherent characteristics of ultra-photosensitive Al/Cu@CeO <sub>2</sub> /p-Si metal oxide semiconductor diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1445-1457.	2.7	7
123	Low-Temperature H <sub>2</sub> /S Sensors Based on Si-Coated SnO <sub>2</sub> Nanowires. <i>Journal of Korean Institute of Metals and Materials</i> , 2019, 57, 732-740.	0.4	6
124	Superhydrophobic and oleophilic micro-nano hierarchical Pd-decorated SiO <sub>2</sub> layers. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3817-3829.	1.9	5
125	The rapid response and high sensitivity of a ruthenium-doped copper ferrite thin film (Ru@CuFe <sub>2</sub> O <sub>4</sub> ) sensor. <i>RSC Advances</i> , 2020, 10, 13611-13615.	1.7	5
126	Electrowetting-on-dielectric behavior of micro-nano hierarchical SiO <sub>2</sub> layers decorated with noble metals. <i>Ceramics International</i> , 2021, 47, 28312-28320.	2.3	5



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127	State-of-the-Art Research on Chemiresistive Gas Sensors in Korea: Emphasis on the Achievements of the Research Labs of Professors Hyoun Woo Kim and Sang Sub Kim. <i>Sensors</i> , 2022, 22, 61.	2.1	5
128	Surprising synthesis of nanodiamond from single-walled carbon nanotubes by the spark plasma sintering process. <i>Electronic Materials Letters</i> , 2016, 12, 747-752.	1.0	4
129	Enhanced humidity sensing properties of Fe-doped CeO <sub>2</sub> nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 8815-8824.	1.1	4
130	Modification of SnO <sub>2</sub> Nanowires with TeO <sub>2</sub> Branches and Their Enhanced Gas Sensing. <i>Proceedings (mdpi)</i> , 2017, 1, 404.	0.2	3
131	Incorporation of Pt Nanoparticles on the Surface of TeO <sub>2</sub> -Branched Porous Si Nanowire Structures for Enhanced Room-Temperature Gas Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6647-6655.	0.9	3
132	A comparative study on the electrical and gas sensing properties of thick films prepared with synthesized nano-sized and commercial micro-sized Fe <sub>2</sub> O <sub>3</sub> powders. <i>Processing and Application of Ceramics</i> , 2017, 11, 265-274.	0.4	3
133	Metal oxide-based nanofibers and their gas-sensing applications. , 2022, , 139-158.		2
134	Catalyst and substrate-free synthesis of graphene nanosheets by unzipping C <sub>60</sub> fullerene clusters using a pulse current method. <i>Materials Science in Semiconductor Processing</i> , 2022, 149, 106831.	1.9	2