

Nguyen Van Hieu

List of Publications by Year in descending order

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138
papers

6,277
citations

44069

48
h-index

88630

70
g-index

138
all docs

138
docs citations

138
times ranked

6000
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly sensitive thin film NH ₃ gas sensor operating at room temperature based on SnO ₂ /MWCNTs composite. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 888-895.	7.8	204
2	Design of SnO ₂ /ZnO hierarchical nanostructures for enhanced ethanol gas-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 594-601.	7.8	174
3	Comparative study of gas sensor performance of SnO ₂ nanowires and their hierarchical nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 112-119.	7.8	135
4	Preparing large-scale WO ₃ nanowire-like structure for high sensitivity NH ₃ gas sensor through a simple route. <i>Current Applied Physics</i> , 2011, 11, 657-661.	2.4	135
5	Enhanced performance of SnO ₂ nanowires ethanol sensor by functionalizing with La ₂ O ₃ . <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 228-234.	7.8	128
6	Effective decoration of Pd nanoparticles on the surface of SnO ₂ nanowires for enhancement of CO gas-sensing performance. <i>Journal of Hazardous Materials</i> , 2014, 265, 124-132.	12.4	125
7	Fe ₂ O ₃ nanoporous network fabricated from Fe ₃ O ₄ /reduced graphene oxide for high-performance ethanol gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3275-3283.	7.8	120
8	DNA sensor development based on multi-wall carbon nanotubes for label-free influenza virus (type A) detection. <i>Journal of Immunological Methods</i> , 2009, 350, 118-124.	1.4	119
9	Fabrication of highly sensitive and selective H ₂ gas sensor based on SnO ₂ thin film sensitized with microsized Pd islands. <i>Journal of Hazardous Materials</i> , 2016, 301, 433-442.	12.4	119
10	Chlorine Gas Sensing Performance of On-Chip Grown ZnO, WO ₃ , and SnO ₂ Nanowire Sensors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4828-4837.	8.0	116
11	Gas-sensing properties of tin oxide doped with metal oxides and carbon nanotubes: A competitive sensor for ethanol and liquid petroleum gas. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 450-456.	7.8	110
12	Synthesis of oleic acid-stabilized silver nanoparticles and analysis of their antibacterial activity. <i>Materials Science and Engineering C</i> , 2010, 30, 910-916.	7.3	103
13	On-chip fabrication of SnO ₂ -nanowire gas sensor: The effect of growth time on sensor performance. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 361-367.	7.8	102
14	Thin film polypyrrole/SWCNTs nanocomposites-based NH ₃ sensor operated at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 500-507.	7.8	99
15	One-step fabrication of SnO ₂ porous nanofiber gas sensors for sub-ppm H ₂ S detection. <i>Sensors and Actuators A: Physical</i> , 2020, 303, 111722.	4.1	98
16	Outstanding gas-sensing performance of graphene/SnO ₂ nanowire Schottky junctions. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	93
17	Facile on-chip electrospinning of ZnFe ₂ O ₄ nanofiber sensors with excellent sensing performance to H ₂ S down ppb level. <i>Journal of Hazardous Materials</i> , 2018, 360, 6-16.	12.4	87
18	On-chip growth of semiconductor metal oxide nanowires for gas sensors: A review. <i>Journal of Science: Advanced Materials and Devices</i> , 2017, 2, 263-285.	3.1	84

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19	Facile synthesis of Fe_2O_3 nanoparticles for high-performance CO gas sensor. <i>Materials Research Bulletin</i> , 2015, 68, 302-307.	5.2	80
20	Facile synthesis of ultrafine rGO/WO ₃ nanowire nanocomposites for highly sensitive toxic NH ₃ gas sensors. <i>Materials Research Bulletin</i> , 2020, 125, 110810.	5.2	80
21	Selective detection of carbon dioxide using LaOCl-functionalized SnO ₂ nanowires for air-quality monitoring. <i>Talanta</i> , 2012, 88, 152-159.	5.5	77
22	Electrochemical detection of short HIV sequences on chitosan/Fe ₃ O ₄ nanoparticle based screen printed electrodes. <i>Materials Science and Engineering C</i> , 2011, 31, 477-485.	7.3	76
23	Elaboration of Pd-nanoparticle decorated polyaniline films for room temperature NH ₃ gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 348-356.	7.8	75
24	Excellent detection of H ₂ S gas at ppb concentrations using ZnFe ₂ O ₄ nanofibers loaded with reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 876-884.	7.8	75
25	Gas sensing properties at room temperature of a quartz crystal microbalance coated with ZnO nanorods. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 188-193.	7.8	74
26	On-chip growth of wafer-scale planar-type ZnO nanorod sensors for effective detection of CO gas. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 529-536.	7.8	74
27	Synthesis, characterization, and comparative gas-sensing properties of Fe ₂ O ₃ prepared from Fe ₃ O ₄ and Fe ₃ O ₄ -chitosan. <i>Journal of Alloys and Compounds</i> , 2012, 523, 120-126.	5.5	72
28	Meso-/Nanoporous Semiconducting Metal Oxides for Gas Sensor Applications. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-14.	2.7	71
29	Diameter controlled synthesis of tungsten oxide nanorod bundles for highly sensitive NO ₂ gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 372-380.	7.8	70
30	Enhancement of gas-sensing characteristics of hydrothermally synthesized WO ₃ nanorods by surface decoration with Pd nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 453-460.	7.8	70
31	Controllable growth of ZnO nanowires grown on discrete islands of Au catalyst for realization of planar-type micro gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 888-894.	7.8	69
32	Mixed SnO ₂ /TiO ₂ included with carbon nanotubes for gas-sensing application. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 41, 258-263.	2.7	67
33	Bilayer SnO ₂ /WO ₃ nanofilms for enhanced NH ₃ gas sensing performance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 224, 163-170.	3.5	67
34	Controlled synthesis of ultrathin MoS ₂ nanoflowers for highly enhanced NO ₂ sensing at room temperature. <i>RSC Advances</i> , 2020, 10, 12759-12771.	3.6	67
35	Comparative study on the gas-sensing performance of ZnO/SnO ₂ external and ZnO/SnO ₂ internal heterojunctions for ppb H ₂ S and NO ₂ gases detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129606.	7.8	65
36	In-situ decoration of Pd nanocrystals on crystalline mesoporous NiO nanosheets for effective hydrogen gas sensors. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12090-12100.	7.1	61

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37	Electrochemical synthesis of polyaniline nanowires on Pt interdigitated microelectrode for room temperature NH ₃ gas sensor application. <i>Current Applied Physics</i> , 2012, 12, 1011-1016.	2.4	60
38	A morphological control of tungsten oxide nanowires by thermal evaporation method for sub-ppm NO ₂ gas sensor application. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 760-768.	7.8	59
39	A comparative study on the electrochemical properties of nanoporous nickel oxide nanowires and nanosheets prepared by a hydrothermal method. <i>RSC Advances</i> , 2018, 8, 19449-19455.	3.6	57
40	C ₂ H ₅ OH and NO ₂ sensing properties of ZnO nanostructures: correlation between crystal size, defect level and sensing performance. <i>RSC Advances</i> , 2018, 8, 5629-5639.	3.6	55
41	Effects of gamma irradiation on hydrogen gas-sensing characteristics of Pd-SnO ₂ thin film sensors. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12572-12580.	7.1	54
42	Selective discrimination of hazardous gases using one single metal oxide resistive sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 121-128.	7.8	54
43	Facile synthesis of SnO ₂ -ZnO core-shell nanowires for enhanced ethanol-sensing performance. <i>Current Applied Physics</i> , 2013, 13, 1637-1642.	2.4	53
44	Novel Self-Heated Gas Sensors Using on-Chip Networked Nanowires with Ultralow Power Consumption. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6153-6162.	8.0	53
45	Superior enhancement of NO ₂ gas response using n-p-n transition of carbon nanotubes/SnO ₂ nanowires heterojunctions. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1120-1127.	7.8	53
46	Simple post-synthesis of mesoporous p-type Co ₃ O ₄ nanochains for enhanced H ₂ S gas sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 158-166.	7.8	53
47	Enhanced NH ₃ and H ₂ gas sensing with H ₂ S gas interference using multilayer SnO ₂ /Pt/WO ₃ nanofilms. <i>Journal of Hazardous Materials</i> , 2021, 412, 125181.	12.4	52
48	Comparative study on CO ₂ and CO sensing performance of LaOCl-coated ZnO nanowires. <i>Journal of Hazardous Materials</i> , 2013, 244-245, 209-216.	12.4	51
49	Comparative NO ₂ gas-sensing performance of the self-heated individual, multiple and networked SnO ₂ nanowire sensors fabricated by a simple process. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 7-12.	7.8	51
50	Effective monitoring and classification of hydrogen and ammonia gases with a bilayer Pt/SnO ₂ thin film sensor. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2418-2428.	7.1	51
51	On-chip hydrothermal growth of ZnO nanorods at low temperature for highly selective NO ₂ gas sensor. <i>Materials Letters</i> , 2016, 169, 231-235.	2.6	50
52	VOC gas sensor based on hollow cubic assembled nanocrystal Zn ₂ SnO ₄ for breath analysis. <i>Sensors and Actuators A: Physical</i> , 2020, 302, 111834.	4.1	50
53	Giant enhancement of H ₂ S gas response by decorating n-type SnO ₂ nanowires with p-type NiO nanoparticles. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	48
54	Nanoporous and crystal evolution in nickel oxide nanosheets for enhanced gas-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 784-793.	7.8	47

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55	Urea mediated synthesis of Ni(OH) ₂ nanowires and their conversion into NiO nanostructure for hydrogen gas-sensing application. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 9446-9453.	7.1	46
56	Facile synthesis of p-type semiconducting cupric oxide nanowires and their gas-sensing properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 42, 146-149.	2.7	45
57	Gas sensor based on nanoporous hematite nanoparticles: Effect of synthesis pathways on morphology and gas sensing properties. <i>Current Applied Physics</i> , 2012, 12, 1355-1360.	2.4	42
58	Controlled synthesis of manganese tungstate nanorods for highly selective NH ₃ gas sensor. <i>Journal of Alloys and Compounds</i> , 2018, 735, 787-794.	5.5	41
59	Facile post-synthesis and gas sensing properties of highly porous NiO microspheres. <i>Sensors and Actuators A: Physical</i> , 2019, 296, 110-120.	4.1	40
60	Room temperature highly toxic NO ₂ gas sensors based on rootstock/scion nanowires of SnO ₂ /ZnO, ZnO/SnO ₂ , SnO ₂ /SnO ₂ and, ZnO/ZnO. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130652.	7.8	40
61	Crystalline mesoporous tungsten oxide nanoplate monoliths synthesized by directed soft template method for highly sensitive NO ₂ gas sensor applications. <i>Materials Research Bulletin</i> , 2013, 48, 440-448.	5.2	39
62	Synthesis of single-crystal SnO ₂ nanowires for NO _x gas sensors application. <i>Ceramics International</i> , 2012, 38, 6557-6563.	4.8	37
63	Synthesis and gas-sensing characteristics of γ -Fe ₂ O ₃ hollow balls. <i>Journal of Science: Advanced Materials and Devices</i> , 2016, 1, 45-50.	3.1	37
64	Self-heated Ag-decorated SnO ₂ nanowires with low power consumption used as a predictive virtual multisensor for H ₂ S-selective sensing. <i>Analytica Chimica Acta</i> , 2019, 1069, 108-116.	5.4	37
65	Magnetic iron oxide nanoparticles decorated graphene for chemoresistive gas sensing: The particle size effects. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 315-325.	9.4	37
66	Low-temperature growth and ethanol-sensing characteristics of quasi-one-dimensional ZnO nanostructures. <i>Physica B: Condensed Matter</i> , 2008, 403, 50-56.	2.7	36
67	Scalable Fabrication of High-Performance NO ₂ Gas Sensors Based on Tungsten Oxide Nanowires by On-Chip Growth and RuO ₂ -Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12022-12030.	8.0	36
68	A facile thermal evaporation route for large-area synthesis of tin oxide nanowires: Characterizations and their use for liquid petroleum gas sensor. <i>Current Applied Physics</i> , 2010, 10, 636-641.	2.4	35
69	Conducting polymer film-based immunosensors using carbon nanotube/antibodies doped polypyrrole. <i>Applied Surface Science</i> , 2011, 257, 9817-9824.	6.1	35
70	Effective design and fabrication of low-power-consumption self-heated SnO ₂ nanowire sensors for reducing gases. <i>Sensors and Actuators B: Chemical</i> , 2019, 295, 144-152.	7.8	35
71	Inclusion of SWCNTs in Nb/Pt co-doped TiO ₂ thin-film sensor for ethanol vapor detection. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2950-2958.	2.7	34
72	Scalable fabrication of SnO ₂ thin films sensitized with CuO islands for enhanced H ₂ S gas sensing performance. <i>Applied Surface Science</i> , 2015, 324, 280-285.	6.1	34

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73	On-chip growth of patterned ZnO nanorod sensors with PdO decoration for enhancement of hydrogen-sensing performance. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16294-16304.	7.1	34
74	General and scalable route to synthesize nanowire-structured semiconducting metal oxides for gas-sensor applications. <i>Journal of Alloys and Compounds</i> , 2013, 549, 260-268.	5.5	32
75	Comparative effects of synthesis parameters on the NO ₂ gas-sensing performance of on-chip grown ZnO and Zn ₂ SnO ₄ nanowire sensors. <i>Journal of Alloys and Compounds</i> , 2018, 765, 1237-1242.	5.5	32
76	Significantly enhanced NO ₂ gas-sensing performance of nanojunction-networked SnO ₂ nanowires by pulsed UV-radiation. <i>Sensors and Actuators A: Physical</i> , 2021, 327, 112759.	4.1	31
77	Au doped ZnO/SnO ₂ composite nanofibers for enhanced H ₂ S gas sensing performance. <i>Sensors and Actuators A: Physical</i> , 2021, 317, 112454.	4.1	30
78	Highly reproducible synthesis of very large-scale tin oxide nanowires used for screen-printed gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 425-431.	7.8	29
79	Shape and size controlled synthesis of Au nanorods: H ₂ S gas-sensing characterizations and antibacterial application. <i>Journal of Alloys and Compounds</i> , 2015, 635, 265-271.	5.5	29
80	Highly selective H ₂ S gas sensor based on WO ₃ -coated SnO ₂ nanowires. <i>Materials Today Communications</i> , 2021, 26, 102094.	1.9	29
81	MoS ₂ nanosheets-decorated SnO ₂ nanofibers for enhanced SO ₂ gas sensing performance and classification of CO, NH ₃ and H ₂ gases. <i>Analytica Chimica Acta</i> , 2021, 1167, 338576.	5.4	29
82	Enhanced NO ₂ gas-sensing performance at room temperature using exfoliated MoS ₂ nanosheets. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113137.	4.1	28
83	Facile preparation of a DNA sensor for rapid herpes virus detection. <i>Materials Science and Engineering C</i> , 2010, 30, 1145-1150.	7.3	27
84	Detection of pathogenic microorganisms using biosensor based on multi-walled carbon nanotubes dispersed in DNA solution. <i>Current Applied Physics</i> , 2012, 12, 1553-1560.	2.4	27
85	Micro-wheels composed of self-assembled tungsten oxide nanorods for highly sensitive detection of low level toxic chlorine gas. <i>RSC Advances</i> , 2015, 5, 25204-25207.	3.6	27
86	Ultrasensitive NO ₂ gas sensors using tungsten oxide nanowires with multiple junctions self-assembled on discrete catalyst islands via on-chip fabrication. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 198-203.	7.8	27
87	SO ₂ and H ₂ S Sensing Properties of Hydrothermally Synthesized CuO Nanoplates. <i>Journal of Electronic Materials</i> , 2018, 47, 7170-7178.	2.2	27
88	Novel silver nanoparticles: synthesis, properties and applications. <i>International Journal of Nanotechnology</i> , 2011, 8, 278.	0.2	26
89	Effective hydrogen gas nanosensor based on bead-like nanowires of platinum-decorated tin oxide. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 211-217.	7.8	26
90	Polyaniline Nanowires-Based Electrochemical Immunosensor for Label Free Detection of Japanese Encephalitis Virus. <i>Analytical Letters</i> , 2013, 46, 1229-1240.	1.8	26

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91	Ultrasensitive NO ₂ gas sensors using hybrid heterojunctions of multi-walled carbon nanotubes and on-chip grown SnO ₂ nanowires. Applied Physics Letters, 2018, 112, .	3.3	26
92	An effective H ₂ S sensor based on SnO ₂ nanowires decorated with NiO nanoparticles by electron beam evaporation. RSC Advances, 2019, 9, 13887-13895.	3.6	26
93	Enhanced H ₂ S gas-sensing performance of γ -Fe ₂ O ₃ nanofibers by optimizing process conditions and loading with reduced graphene oxide. Journal of Alloys and Compounds, 2020, 826, 154169.	5.5	26
94	A novel design and fabrication of self-heated In ₂ O ₃ nanowire gas sensor on glass for ethanol detection. Sensors and Actuators A: Physical, 2022, 345, 113769.	4.1	24
95	Unique Magnetic Properties of NdRhIn ₅ , TbRhIn ₅ , DyRhIn ₅ , and HoRhIn ₅ . Journal of the Physical Society of Japan, 2006, 75, 074708.	1.6	23
96	On-chip growth of single phase Zn ₂ SnO ₄ nanowires by thermal evaporation method for gas sensor application. Journal of Alloys and Compounds, 2017, 708, 470-475.	5.5	23
97	Ultralow power consumption gas sensor based on a self-heated nanojunction of SnO ₂ nanowires. RSC Advances, 2018, 8, 36323-36330.	3.6	23
98	Extraordinary H ₂ S gas sensing performance of ZnO/rGO external and internal heterojunctions. Journal of Alloys and Compounds, 2021, 879, 160457.	5.5	23
99	Density-controllable growth of SnO ₂ nanowire junction-bridging across electrode for low-temperature NO ₂ gas detection. Journal of Materials Science, 2013, 48, 7253-7259.	3.7	21
100	Single-crystal zinc oxide nanorods with nanovoids as highly sensitive NO ₂ nanosensors. Materials Letters, 2013, 94, 41-43.	2.6	21
101	Nanoporous hematite nanoparticles: Synthesis and applications for benzylation of benzene and aromatic compounds. Journal of Alloys and Compounds, 2014, 582, 83-87.	5.5	21
102	A facile synthesis of ruthenium/reduced graphene oxide nanocomposite for effective electrochemical applications. Solar Energy, 2019, 191, 420-426.	6.1	21
103	Konjac glucomannan-templated synthesis of three-dimensional NiO nanostructures assembled from porous NiO nanoplates for gas sensors. RSC Advances, 2019, 9, 9584-9593.	3.6	21
104	Facile preparation of large-scale γ -Fe ₂ O ₃ nanorod/SnO ₂ nanorod composites and their LPG-sensing properties. Journal of Alloys and Compounds, 2014, 599, 195-201.	5.5	19
105	Synthesis, characterization, and comparative gas sensing properties of tin dioxide nanoflowers and porous nanospheres. Ceramics International, 2015, 41, 14819-14825.	4.8	19
106	Comparison of NO ₂ Gas-Sensing Properties of Three Different ZnO Nanostructures Synthesized by On-Chip Low-Temperature Hydrothermal Growth. Journal of Electronic Materials, 2018, 47, 785-793.	2.2	18
107	Impact parameters on hybridization process in detecting influenza virus (type A) using conductimetric-based DNA sensor. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1567-1571.	2.7	17
108	Isotropic metamaterial absorber using cut-wire-pair structures. Applied Physics Express, 2015, 8, 032001.	2.4	17

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109	New Design of ZnO Nanorod- and Nanowire-Based NO ₂ Room-Temperature Sensors Prepared by Hydrothermal Method. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-9.	2.7	17
110	Dip-coating decoration of Ag ₂ O nanoparticles on SnO ₂ nanowires for high-performance H ₂ S gas sensors. <i>RSC Advances</i> , 2020, 10, 17713-17723.	3.6	17
111	Nanoporous NiO nanosheets-based nanohybrid catalyst for efficient reduction of triiodide ions. <i>Solar Energy</i> , 2020, 197, 546-552.	6.1	17
112	Controlled Growth of Vertically Oriented Trilayer MoS ₂ Nanoflakes for Room-Temperature NO ₂ Gas Sensor Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000004.	1.8	16
113	The quantum acoustomagnetolectric field in a quantum well with a parabolic potential. <i>Superlattices and Microstructures</i> , 2012, 52, 921-930.	3.1	15
114	Full-Layer Controlled Synthesis and Transfer of Large-Scale Monolayer Graphene for Nitrogen Dioxide and Ammonia Sensing. <i>Analytical Letters</i> , 2014, 47, 280-294.	1.8	15
115	Prototype edge-grown nanowire sensor array for the real-time monitoring and classification of multiple gases. <i>Journal of Science: Advanced Materials and Devices</i> , 2020, 5, 409-416.	3.1	15
116	Ammonia-Gas-Sensing Characteristics of WO ₃ /Carbon Nanotubes Nanocomposites: Effect of Nanotube Content and Sensing Mechanism. <i>Science of Advanced Materials</i> , 2016, 8, 524-533.	0.7	15
117	Fermi Surface and Magnetic Properties of PrTn ₅ (T: Co, Rh, and Ir). <i>Journal of the Physical Society of Japan</i> , 2005, 74, 3320-3328.	1.6	13
118	A comparative study on the NH ₃ gas-sensing properties of ZnO, SnO ₂ , and WO ₃ nanowires. <i>International Journal of Nanotechnology</i> , 2011, 8, 174.	0.2	13
119	Facile Hydrothermal Synthesis of Two-Dimensional Porous ZnO Nanosheets for Highly Sensitive Ethanol Sensor. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-7.	2.7	13
120	Nitrogen-Doped Graphene Synthesized from a Single Liquid Precursor for a Field Effect Transistor. <i>Journal of Electronic Materials</i> , 2016, 45, 839-845.	2.2	12
121	CuO Nanofibers Prepared by Electrospinning for Gas Sensing Application: Effect of Copper Salt Concentration. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 7910-7918.	0.9	11
122	Design and fabrication of effective gradient temperature sensor array based on bilayer SnO ₂ /Pt for gas classification. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130979.	7.8	11
123	Superior detection and classification of ethanol and acetone using 3D ultra-porous γ -Fe ₂ O ₃ nanocubes-based sensor. <i>Sensors and Actuators B: Chemical</i> , 2022, 362, 131737.	7.8	11
124	Facile synthesis of single-crystal nanoporous γ -NiS nanosheets from Ni(OH) ₂ counterpart. <i>Materials Letters</i> , 2015, 161, 282-285.	2.6	10
125	Transition metal oxides as Pt-free counter electrodes for liquid-junction photovoltaic devices. <i>Vietnam Journal of Chemistry</i> , 2019, 57, 784-791.	0.8	9
126	Realization of a portable H ₂ S sensing instrument based on SnO ₂ nanowires. <i>Journal of Science: Advanced Materials and Devices</i> , 2020, 5, 40-47.	3.1	9

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127	The quantum acoustoelectric current in a doped superlattice GaAs:Si/GaAs:Be. Superlattices and Microstructures, 2013, 63, 121-130.	3.1	8
128	Single crystal cupric oxide nanowires: Length- and density-controlled growth and gas-sensing characteristics. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 58, 16-23.	2.7	8
129	Investigation of zinc electronucleation and growth mechanisms onto platinum electrode from a deep eutectic solvent for gas sensing applications. Journal of Applied Electrochemistry, 2022, 52, 299-309.	2.9	8
130	Taming electromagnetic metamaterials for isotropic perfect absorbers. AIP Advances, 2015, 5, .	1.3	7
131	Mesoporous Cobalt Tungsten Oxide Heterostructured Nanotoroids for Gas Sensing. Advanced Materials Interfaces, 2018, 5, 1800269.	3.7	6
132	Tungsten Oxide Urchin-Flowers and Nanobundles: Effect of Synthesis Conditions and Heat Treatment on Assembly and Gas-Sensing Characteristics. Science of Advanced Materials, 2014, 6, 1081-1090.	0.7	6
133	The Dependence of a Quantum Acoustoelectric Current on Some Qualities in a Cylindrical Quantum Wire with an Infinite Potential GaAs/GaAsAl. Materials Transactions, 2015, 56, 1408-1411.	1.2	5
134	Low-operating temperature and remarkably responsive methanol sensors using Pt-decorated hierarchical ZnO structure. Nanotechnology, 2022, 33, 065502.	2.6	3
135	Systematic Study of the 4f Electronic State in RRhIn ₅ and RCu ₂ Si ₂ (R: Rare Earth). E-Journal of Surface Science and Nanotechnology, 2011, 9, 446-453.	0.4	1
136	Synthesis and Gas Sensing Properties of SnO ₂ Nanostructures by Thermal Evaporation. Advanced Materials Research, 0, 620, 350-355.	0.3	1
137	Novel portable electrical detection system for DNA SENSOR application. Journal of Experimental Nanoscience, 2014, 9, 652-660.	2.4	1
138	Facile and Scalable Fabrication of Highly Porous Co ₃ O ₄ and δ -Fe ₂ O ₃ Nanosheets and Their Catalytic Properties. Journal of Electronic Materials, 2019, 48, 7897-7905.	2.2	1