

# 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	Design and fabrication of effective gradient temperature sensor array based on bilayer SnO <sub>2</sub> /Pt for gas classification. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130979.	7.8	11
2	Investigation of zinc electronucleation and growth mechanisms onto platinum electrode from a deep eutectic solvent for gas sensing applications. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 299-309.	2.9	8
3	Low-operating temperature and remarkably responsive methanol sensors using Pt-decorated hierarchical ZnO structure. <i>Nanotechnology</i> , 2022, 33, 065502.	2.6	3
4	Superior detection and classification of ethanol and acetone using 3D ultra-porous $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanocubes-based sensor. <i>Sensors and Actuators B: Chemical</i> , 2022, 362, 131737.	7.8	11
5	A novel design and fabrication of self-heated In <sub>2</sub> O <sub>3</sub> nanowire gas sensor on glass for ethanol detection. <i>Sensors and Actuators A: Physical</i> , 2022, 345, 113769.	4.1	24
6	Au doped ZnO/SnO <sub>2</sub> composite nanofibers for enhanced H <sub>2</sub> S gas sensing performance. <i>Sensors and Actuators A: Physical</i> , 2021, 317, 112454.	4.1	30
7	Highly selective H <sub>2</sub> S gas sensor based on WO <sub>3</sub> -coated SnO <sub>2</sub> nanowires. <i>Materials Today Communications</i> , 2021, 26, 102094.	1.9	29
8	Comparative study on the gas-sensing performance of ZnO/SnO <sub>2</sub> external and ZnO@SnO <sub>2</sub> internal heterojunctions for ppb H <sub>2</sub> S and NO <sub>2</sub> gases detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129606.	7.8	65
9	Enhanced NH <sub>3</sub> and H <sub>2</sub> gas sensing with H <sub>2</sub> S gas interference using multilayer SnO <sub>2</sub> /Pt/WO <sub>3</sub> nanofilms. <i>Journal of Hazardous Materials</i> , 2021, 412, 125181.	12.4	52
10	MoS <sub>2</sub> nanosheets-decorated SnO <sub>2</sub> nanofibers for enhanced SO <sub>2</sub> gas sensing performance and classification of CO, NH <sub>3</sub> and H <sub>2</sub> gases. <i>Analytica Chimica Acta</i> , 2021, 1167, 338576.	5.4	29
11	Significantly enhanced NO <sub>2</sub> gas-sensing performance of nanojunction-networked SnO <sub>2</sub> nanowires by pulsed UV-radiation. <i>Sensors and Actuators A: Physical</i> , 2021, 327, 112759.	4.1	31
12	Enhanced NO <sub>2</sub> gas-sensing performance at room temperature using exfoliated MoS <sub>2</sub> nanosheets. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113137.	4.1	28
13	Extraordinary H <sub>2</sub> S gas sensing performance of ZnO/rGO external and internal heterojunctions. <i>Journal of Alloys and Compounds</i> , 2021, 879, 160457.	5.5	23
14	Room temperature highly toxic NO <sub>2</sub> gas sensors based on rootstock/scion nanowires of SnO <sub>2</sub> /ZnO, ZnO/SnO <sub>2</sub> , SnO <sub>2</sub> /SnO <sub>2</sub> and, ZnO/ZnO. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130652.	7.8	40
15	One-step fabrication of SnO <sub>2</sub> porous nanofiber gas sensors for sub-ppm H <sub>2</sub> S detection. <i>Sensors and Actuators A: Physical</i> , 2020, 303, 111722.	4.1	98
16	VOC gas sensor based on hollow cubic assembled nanocrystal Zn <sub>2</sub> SnO <sub>4</sub> for breath analysis. <i>Sensors and Actuators A: Physical</i> , 2020, 302, 111834.	4.1	50
17	Effective monitoring and classification of hydrogen and ammonia gases with a bilayer Pt/SnO <sub>2</sub> thin film sensor. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2418-2428.	7.1	51
18	Dip-coating decoration of Ag <sub>2</sub> O nanoparticles on SnO <sub>2</sub> nanowires for high-performance H <sub>2</sub> S gas sensors. <i>RSC Advances</i> , 2020, 10, 17713-17723.	3.6	17

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19	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
20	Enhanced H <sub>2</sub> S gas-sensing performance of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanofibers by optimizing process conditions and loading with reduced graphene oxide. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154169.	5.5	26
21	Nanoporous NiO nanosheets-based nanohybrid catalyst for efficient reduction of triiodide ions. <i>Solar Energy</i> , 2020, 197, 546-552.	6.1	17
22	Facile synthesis of ultrafine rGO/WO <sub>3</sub> nanowire nanocomposites for highly sensitive toxic NH <sub>3</sub> gas sensors. <i>Materials Research Bulletin</i> , 2020, 125, 110810.	5.2	80
23	Realization of a portable H <sub>2</sub> S sensing instrument based on SnO <sub>2</sub> nanowires. <i>Journal of Science: Advanced Materials and Devices</i> , 2020, 5, 40-47.	3.1	9
24	Controlled Growth of Vertically Oriented Trilayer MoS <sub>2</sub> Nanoflakes for Room-Temperature NO <sub>2</sub> Gas Sensor Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000004.	1.8	16
25	Controlled synthesis of ultrathin MoS <sub>2</sub> nanoflowers for highly enhanced NO <sub>2</sub> sensing at room temperature. <i>RSC Advances</i> , 2020, 10, 12759-12771.	3.6	67
26	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
27	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
28	Facile and Scalable Fabrication of Highly Porous Co <sub>3</sub> O <sub>4</sub> and $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Nanosheets and Their Catalytic Properties. <i>Journal of Electronic Materials</i> , 2019, 48, 7897-7905.	2.2	1
29	A facile synthesis of ruthenium/reduced graphene oxide nanocomposite for effective electrochemical applications. <i>Solar Energy</i> , 2019, 191, 420-426.	6.1	21
30	Effective design and fabrication of low-power-consumption self-heated SnO <sub>2</sub> nanowire sensors for reducing gases. <i>Sensors and Actuators B: Chemical</i> , 2019, 295, 144-152.	7.8	35
31	An effective H <sub>2</sub> S sensor based on SnO <sub>2</sub> nanowires decorated with NiO nanoparticles by electron beam evaporation. <i>RSC Advances</i> , 2019, 9, 13887-13895.	3.6	26
32	New Design of ZnO Nanorod- and Nanowire-Based NO <sub>2</sub> Room-Temperature Sensors Prepared by Hydrothermal Method. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-9.	2.7	17
33	Konjac glucomannan-templated synthesis of three-dimensional NiO nanostructures assembled from porous NiO nanoplates for gas sensors. <i>RSC Advances</i> , 2019, 9, 9584-9593.	3.6	21
34	Self-heated Ag-decorated SnO <sub>2</sub> nanowires with low power consumption used as a predictive virtual multisensor for H <sub>2</sub> S-selective sensing. <i>Analytica Chimica Acta</i> , 2019, 1069, 108-116.	5.4	37
35	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
36	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

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37	Excellent detection of H <sub>2</sub> S gas at ppb concentrations using ZnFe <sub>2</sub> O <sub>4</sub> nanofibers loaded with reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 876-884.	7.8	75
38	Urea mediated synthesis of Ni(OH) <sub>2</sub> 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
39	Ultrasensitive NO <sub>2</sub> gas sensors using hybrid heterojunctions of multi-walled carbon nanotubes and on-chip grown SnO <sub>2</sub> nanowires. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	26
40	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.	3.6	55
41	Comparison of NO <sub>2</sub> Gas-Sensing Properties of Three Different ZnO Nanostructures Synthesized by On-Chip Low-Temperature Hydrothermal Growth. <i>Journal of Electronic Materials</i> , 2018, 47, 785-793.	2.2	18
42	Mesoporous Cobalt Tungsten Oxide Heterostructured Nanotoroids for Gas Sensing. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800269.	3.7	6
43	Fe <sub>2</sub> O <sub>3</sub> nanoporous network fabricated from Fe <sub>3</sub> O <sub>4</sub> /reduced graphene oxide for high-performance ethanol gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3275-3283.	7.8	120
44	Controlled synthesis of manganese tungstate nanorods for highly selective NH <sub>3</sub> gas sensor. <i>Journal of Alloys and Compounds</i> , 2018, 735, 787-794.	5.5	41
45	Ultralow power consumption gas sensor based on a self-heated nanojunction of SnO <sub>2</sub> nanowires. <i>RSC Advances</i> , 2018, 8, 36323-36330.	3.6	23
46	SO <sub>2</sub> and H <sub>2</sub> S Sensing Properties of Hydrothermally Synthesized CuO Nanoplates. <i>Journal of Electronic Materials</i> , 2018, 47, 7170-7178.	2.2	27
47	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
48	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
49	Facile on-chip electrospinning of ZnFe <sub>2</sub> O <sub>4</sub> nanofiber sensors with excellent sensing performance to H <sub>2</sub> S down ppb level. <i>Journal of Hazardous Materials</i> , 2018, 360, 6-16.	12.4	87
50	Simple post-synthesis of mesoporous p-type Co <sub>3</sub> O <sub>4</sub> nanochains for enhanced H <sub>2</sub> S gas sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 158-166.	7.8	53
51	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
52	Comparative effects of synthesis parameters on the NO <sub>2</sub> gas-sensing performance of on-chip grown ZnO and Zn <sub>2</sub> SnO <sub>4</sub> nanowire sensors. <i>Journal of Alloys and Compounds</i> , 2018, 765, 1237-1242.	5.5	32
53	Novel Self-Heated Gas Sensors Using on-Chip Networked Nanowires with Ultralow Power Consumption. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6153-6162.	8.0	53
54	On-chip growth of single phase Zn <sub>2</sub> SnO <sub>4</sub> nanowires by thermal evaporation method for gas sensor application. <i>Journal of Alloys and Compounds</i> , 2017, 708, 470-475.	5.5	23

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55	Elaboration of Pd-nanoparticle decorated polyaniline films for room temperature NH <sub>3</sub> gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 348-356.	7.8	75
56	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
57	Bilayer SnO <sub>2</sub> /WO <sub>3</sub> nanofilms for enhanced NH <sub>3</sub> gas sensing performance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 224, 163-170.	3.5	67
58	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
59	Superior enhancement of NO <sub>2</sub> gas response using n-p-n transition of carbon nanotubes/SnO <sub>2</sub> nanowires heterojunctions. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1120-1127.	7.8	53
60	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
61	Synthesis and gas-sensing characteristics of Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> hollow balls. <i>Journal of Science: Advanced Materials and Devices</i> , 2016, 1, 45-50.	3.1	37
62	On-chip hydrothermal growth of ZnO nanorods at low temperature for highly selective NO <sub>2</sub> gas sensor. <i>Materials Letters</i> , 2016, 169, 231-235.	2.6	50
63	Chlorine Gas Sensing Performance of On-Chip Grown ZnO, WO <sub>3</sub> , and SnO <sub>2</sub> Nanowire Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4828-4837.	8.0	116
64	Ultrasensitive NO <sub>2</sub> 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
65	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
66	Enhancement of gas-sensing characteristics of hydrothermally synthesized WO <sub>3</sub> nanorods by surface decoration with Pd nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 453-460.	7.8	70
67	Fabrication of highly sensitive and selective H <sub>2</sub> gas sensor based on SnO <sub>2</sub> thin film sensitized with microsized Pd islands. <i>Journal of Hazardous Materials</i> , 2016, 301, 433-442.	12.4	119
68	Ammonia-Gas-Sensing Characteristics of WO <sub>3</sub> /Carbon Nanotubes Nanocomposites: Effect of Nanotube Content and Sensing Mechanism. <i>Science of Advanced Materials</i> , 2016, 8, 524-533.	0.7	15
69	The Dependence of a Quantum Acoustoelectric Current on Some Qualities in a Cylindrical Quantum Wire with an Infinite Potential GaAs/GaAsAl. <i>Materials Transactions</i> , 2015, 56, 1408-1411.	1.2	5
70	Meso-/Nanoporous Semiconducting Metal Oxides for Gas Sensor Applications. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-14.	2.7	71
71	Isotropic metamaterial absorber using cut-wire-pair structures. <i>Applied Physics Express</i> , 2015, 8, 032001.	2.4	17
72	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

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73	Shape and size controlled synthesis of Au nanorods: H <sub>2</sub> S gas-sensing characterizations and antibacterial application. <i>Journal of Alloys and Compounds</i> , 2015, 635, 265-271.	5.5	29
74	Effects of gamma irradiation on hydrogen gas-sensing characteristics of Pd/SnO <sub>2</sub> thin film sensors. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12572-12580.	7.1	54
75	Facile synthesis of Fe <sub>2</sub> O <sub>3</sub> nanoparticles for high-performance CO gas sensor. <i>Materials Research Bulletin</i> , 2015, 68, 302-307.	5.2	80
76	Synthesis, characterization, and comparative gas sensing properties of tin dioxide nanoflowers and porous nanospheres. <i>Ceramics International</i> , 2015, 41, 14819-14825.	4.8	19
77	Taming electromagnetic metamaterials for isotropic perfect absorbers. <i>AIP Advances</i> , 2015, 5, .	1.3	7
78	Facile synthesis of single-crystal nanoporous NiS nanosheets from Ni(OH) <sub>2</sub> counterpart. <i>Materials Letters</i> , 2015, 161, 282-285.	2.6	10
79	Scalable fabrication of SnO <sub>2</sub> thin films sensitized with CuO islands for enhanced H <sub>2</sub> S gas sensing performance. <i>Applied Surface Science</i> , 2015, 324, 280-285.	6.1	34
80	Outstanding gas-sensing performance of graphene/SnO <sub>2</sub> nanowire Schottky junctions. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	93
81	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
82	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
83	Facile preparation of large-scale Fe <sub>2</sub> O <sub>3</sub> nanorod/SnO <sub>2</sub> nanorod composites and their LPG-sensing properties. <i>Journal of Alloys and Compounds</i> , 2014, 599, 195-201.	5.5	19
84	Effective decoration of Pd nanoparticles on the surface of SnO <sub>2</sub> nanowires for enhancement of CO gas-sensing performance. <i>Journal of Hazardous Materials</i> , 2014, 265, 124-132.	12.4	125
85	Single crystal cupric oxide nanowires: Length- and density-controlled growth and gas-sensing characteristics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 58, 16-23.	2.7	8
86	Novel portable electrical detection system for DNA SENSOR application. <i>Journal of Experimental Nanoscience</i> , 2014, 9, 652-660.	2.4	1
87	Scalable Fabrication of High-Performance NO <sub>2</sub> Gas Sensors Based on Tungsten Oxide Nanowires by On-Chip Growth and RuO <sub>2</sub> -Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12022-12030.	8.0	36
88	Nanoporous hematite nanoparticles: Synthesis and applications for benzylolation of benzene and aromatic compounds. <i>Journal of Alloys and Compounds</i> , 2014, 582, 83-87.	5.5	21
89	Comparative NO <sub>2</sub> gas-sensing performance of the self-heated individual, multiple and networked SnO <sub>2</sub> nanowire sensors fabricated by a simple process. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 7-12.	7.8	51
90	Tungsten Oxide Urchin-Flowers and Nanobundles: Effect of Synthesis Conditions and Heat Treatment on Assembly and Gas-Sensing Characteristics. <i>Science of Advanced Materials</i> , 2014, 6, 1081-1090.	0.7	6

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91	Density-controllable growth of SnO <sub>2</sub> nanowire junction-bridging across electrode for low-temperature NO <sub>2</sub> gas detection. <i>Journal of Materials Science</i> , 2013, 48, 7253-7259.	3.7	21
92	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
93	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
94	Facile synthesis of SnO <sub>2</sub> @ZnO core-shell nanowires for enhanced ethanol-sensing performance. <i>Current Applied Physics</i> , 2013, 13, 1637-1642.	2.4	53
95	The quantum acoustoelectric current in a doped superlattice GaAs:Si/GaAs:Be. <i>Superlattices and Microstructures</i> , 2013, 63, 121-130.	3.1	8
96	Comparative study on CO <sub>2</sub> and CO sensing performance of LaOCl-coated ZnO nanowires. <i>Journal of Hazardous Materials</i> , 2013, 244-245, 209-216.	12.4	51
97	Single-crystal zinc oxide nanorods with nanovoids as highly sensitive NO <sub>2</sub> nanosensors. <i>Materials Letters</i> , 2013, 94, 41-43.	2.6	21
98	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
99	Diameter controlled synthesis of tungsten oxide nanorod bundles for highly sensitive NO <sub>2</sub> gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 372-380.	7.8	70
100	Polyaniline Nanowires-Based Electrochemical Immunosensor for Label Free Detection of Japanese Encephalitis Virus. <i>Analytical Letters</i> , 2013, 46, 1229-1240.	1.8	26
101	Crystalline mesoporous tungsten oxide nanoplate monoliths synthesized by directed soft template method for highly sensitive NO <sub>2</sub> gas sensor applications. <i>Materials Research Bulletin</i> , 2013, 48, 440-448.	5.2	39
102	Selective detection of carbon dioxide using LaOCl-functionalized SnO <sub>2</sub> nanowires for air-quality monitoring. <i>Talanta</i> , 2012, 88, 152-159.	5.5	77
103	Synthesis, characterization, and comparative gas-sensing properties of Fe <sub>2</sub> O <sub>3</sub> prepared from Fe <sub>3</sub> O <sub>4</sub> and Fe <sub>3</sub> O <sub>4</sub> -chitosan. <i>Journal of Alloys and Compounds</i> , 2012, 523, 120-126.	5.5	72
104	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
105	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
106	Synthesis of single-crystal SnO <sub>2</sub> nanowires for NO <sub>x</sub> gas sensors application. <i>Ceramics International</i> , 2012, 38, 6557-6563.	4.8	37
107	The quantum acoustomagnetolectric field in a quantum well with a parabolic potential. <i>Superlattices and Microstructures</i> , 2012, 52, 921-930.	3.1	15
108	Giant enhancement of H <sub>2</sub> S gas response by decorating n-type SnO <sub>2</sub> nanowires with p-type NiO nanoparticles. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	48

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109	Design of SnO <sub>2</sub> /ZnO hierarchical nanostructures for enhanced ethanol gas-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 594-601.	7.8	174
110	A morphological control of tungsten oxide nanowires by thermal evaporation method for sub-ppm NO <sub>2</sub> gas sensor application. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 760-768.	7.8	59
111	Electrochemical synthesis of polyaniline nanowires on Pt interdigitated microelectrode for room temperature NH <sub>3</sub> gas sensor application. <i>Current Applied Physics</i> , 2012, 12, 1011-1016.	2.4	60
112	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
113	Conducting polymer film-based immunosensors using carbon nanotube/antibodies doped polypyrrole. <i>Applied Surface Science</i> , 2011, 257, 9817-9824.	6.1	35
114	Systematic Study of the 4f Electronic State in RRhIn <sub>5</sub> and RCu <sub>2</sub> Si <sub>2</sub> (R: Rare Earth). <i>E-Journal of Surface Science and Nanotechnology</i> , 2011, 9, 446-453.	0.4	1
115	Preparing large-scale WO <sub>3</sub> nanowire-like structure for high sensitivity NH <sub>3</sub> gas sensor through a simple route. <i>Current Applied Physics</i> , 2011, 11, 657-661.	2.4	135
116	Electrochemical detection of short HIV sequences on chitosan/Fe <sub>3</sub> O <sub>4</sub> nanoparticle based screen printed electrodes. <i>Materials Science and Engineering C</i> , 2011, 31, 477-485.	7.3	76
117	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
118	A comparative study on the NH <sub>3</sub> gas-sensing properties of ZnO, SnO <sub>2</sub> , and WO <sub>3</sub> nanowires. <i>International Journal of Nanotechnology</i> , 2011, 8, 174.	0.2	13
119	Novel silver nanoparticles: synthesis, properties and applications. <i>International Journal of Nanotechnology</i> , 2011, 8, 278.	0.2	26
120	On-chip fabrication of SnO <sub>2</sub> -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
121	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
122	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
123	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
124	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
125	Comparative study of gas sensor performance of SnO <sub>2</sub> nanowires and their hierarchical nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 112-119.	7.8	135
126	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



#	ARTICLE	IF	CITATIONS
127	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
128	Thin film polypyrrole/SWCNTs nanocomposites-based NH <sub>3</sub> sensor operated at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 500-507.	7.8	99
129	Impact parameters on hybridization process in detecting influenza virus (type A) using conductimetric-based DNA sensor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1567-1571.	2.7	17
130	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
131	Highly sensitive thin film NH <sub>3</sub> gas sensor operating at room temperature based on SnO <sub>2</sub> /MWCNTs composite. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 888-895.	7.8	204
132	Inclusion of SWCNTs in Nb/Pt co-doped TiO <sub>2</sub> thin-film sensor for ethanol vapor detection. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2950-2958.	2.7	34
133	Mixed SnO <sub>2</sub> /TiO <sub>2</sub> included with carbon nanotubes for gas-sensing application. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 41, 258-263.	2.7	67
134	Enhanced performance of SnO <sub>2</sub> nanowires ethanol sensor by functionalizing with La <sub>2</sub> O <sub>3</sub> . <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 228-234.	7.8	128
135	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
136	Unique Magnetic Properties of NdRhIn <sub>5</sub> , TbRhIn <sub>5</sub> , DyRhIn <sub>5</sub> , and HoRhIn <sub>5</sub> . <i>Journal of the Physical Society of Japan</i> , 2006, 75, 074708.	1.6	23
137	Fermi Surface and Magnetic Properties of PrTln <sub>5</sub> (T: Co, Rh, and Ir). <i>Journal of the Physical Society of Japan</i> , 2005, 74, 3320-3328.	1.6	13
138	Synthesis and Gas Sensing Properties of SnO <sub>2</sub> Nanostructures by Thermal Evaporation. <i>Advanced Materials Research</i> , 0, 620, 350-355.	0.3	1