Jing Wang

List of Publications by Year in descending order

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		94269	102304
92	4,481	37	66
papers	citations	h-index	g-index

92	92	92	4518
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	WS2 nanoflakes based selective ammonia sensors at room temperature. Sensors and Actuators B: Chemical, 2017, 240, 273-277.	4.0	255
2	Enhanced NO2 sensing of SnO2/SnS2 heterojunction based sensor. Sensors and Actuators B: Chemical, 2017, 244, 67-76.	4.0	200
3	Enhanced room temperature sensing of Co3O4-intercalated reduced graphene oxide based gas sensors. Sensors and Actuators B: Chemical, 2013, 188, 902-908.	4.0	186
4	Formaldehyde sensing properties of electrospun NiO-doped SnO2 nanofibers. Sensors and Actuators B: Chemical, 2011, 156, 723-730.	4.0	183
5	Reduced graphene oxide (rGO) encapsulated Co3O4 composite nanofibers for highly selective ammonia sensors. Sensors and Actuators B: Chemical, 2016, 222, 864-870.	4.0	169
6	Reduced graphene oxide (rGO) decorated TiO2 microspheres for selective room-temperature gas sensors. Sensors and Actuators B: Chemical, 2016, 230, 330-336.	4.0	161
7	Formaldehyde gas sensor based on SnO2/In2O3 hetero-nanofibers by a modified double jets electrospinning process. Sensors and Actuators B: Chemical, 2012, 166-167, 746-752.	4.0	150
8	Hollow hierarchical SnO2-ZnO composite nanofibers with heterostructure based on electrospinning method for detecting methanol. Sensors and Actuators B: Chemical, 2014, 192, 543-549.	4.0	140
9	Highly sensitive and selective room-temperature formaldehyde sensors using hollow TiO2 microspheres. Sensors and Actuators B: Chemical, 2015, 219, 158-163.	4.0	128
10	Room temperature impedance spectroscopy-based sensing of formaldehyde with porous TiO2 under UV illumination. Sensors and Actuators B: Chemical, 2013, 185, 1-9.	4.0	125
11	Humidity sensors based on composite material of nano-BaTiO3 and polymer RMX. Sensors and Actuators B: Chemical, 2002, 81, 248-253.	4.0	120
12	Silicon-based micro-gas sensors for detecting formaldehyde. Sensors and Actuators B: Chemical, 2009, 136, 399-404.	4.0	120
13	An enrichment method to detect low concentration formaldehyde. Sensors and Actuators B: Chemical, 2008, 134, 1010-1015.	4.0	110
14	Visible-light activated room temperature NO2 sensing of SnS2 nanosheets based chemiresistive sensors. Sensors and Actuators B: Chemical, 2020, 305, 127455.	4.0	109
15	Light-activated room-temperature gas sensors based on metal oxide nanostructures: A review on recent advances. Ceramics International, 2021, 47, 7353-7368.	2.3	103
16	Percolation effect of reduced graphene oxide (rGO) on ammonia sensing of rGO-SnO2 composite based sensor. Sensors and Actuators B: Chemical, 2017, 243, 1115-1126.	4.0	95
17	Synthesis and gas sensing properties of porous hierarchical SnO2 by grapefruit exocarp biotemplate. Sensors and Actuators B: Chemical, 2016, 222, 1134-1143.	4.0	92
18	Light enhanced VOCs sensing of WS2 microflakes based chemiresistive sensors powered by triboelectronic nangenerators. Sensors and Actuators B: Chemical, 2018, 256, 992-1000.	4.0	86

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19	Sensitivity and complex impedance of nanometer zirconia thick film humidity sensors. Sensors and Actuators B: Chemical, 2009, 139, 418-424.	4.0	84
20	Preparation and electrical properties of humidity sensing films of BaTiO3/polystrene sulfonic sodium. Materials Chemistry and Physics, 2003, 78, 746-750.	2.0	83
21	Mechanism for toluene detection of flower-like ZnO sensors prepared by hydrothermal approach: Charge transfer. Sensors and Actuators B: Chemical, 2015, 207, 66-73.	4.0	83
22	3D Architectured Graphene/Metal Oxide Hybrids for Gas Sensors: A Review. Sensors, 2018, 18, 1456.	2.1	83
23	Study on dielectric properties of humidity sensing nanometer materials. Sensors and Actuators B: Chemical, 2005, 108, 445-449.	4.0	82
24	UV activated hollow ZnO microspheres for selective ethanol sensors at low temperatures. Sensors and Actuators B: Chemical, 2016, 232, 158-164.	4.0	79
25	Near infrared light enhanced room-temperature NO2 gas sensing by hierarchical ZnO nanorods functionalized with PbS quantum dots. Sensors and Actuators B: Chemical, 2018, 255, 2538-2545.	4.0	73
26	Influence of doping concentration on the properties of ZnO:Mn thin films by solâ€“gel method. Vacuum, 2007, 81, 894-898.	1.6	66
27	Oxygen-Plasma-Assisted Enhanced Acetone-Sensing Properties of ZnO Nanofibers by Electrospinning. ACS Applied Materials & Interfaces, 2020, 12, 23084-23093.	4.0	66
28	Properties analysis of Mn-doped ZnO piezoelectric films. Journal of Alloys and Compounds, 2008, 449, 44-47.	2.8	59
29	NiO-wrapped mesoporous TiO2 microspheres based selective ammonia sensor at room temperature. Sensors and Actuators B: Chemical, 2015, 209, 729-734.	4.0	59
30	Hierarchical structured TiO2 nano-tubes for formaldehyde sensing. Ceramics International, 2012, 38, 6341-6347.	2.3	57
31	Humidity sensitivity of composite material of lanthanum ferrite/polymer quaternary acrylic resin. Sensors and Actuators B: Chemical, 2004, 99, 586-591.	4.0	55
32	Investigation of gas sensing properties of SnO2/In2O3 composite hetero-nanofibers treated by oxygen plasma. Sensors and Actuators B: Chemical, 2015, 206, 753-763.	4.0	51
33	Toluene sensing properties of porous Pd-loaded flower-like SnO2 microspheres. Sensors and Actuators B: Chemical, 2014, 202, 795-802.	4.0	49
34	Gas sensing materials roadmap. Journal of Physics Condensed Matter, 2021, 33, 303001.	0.7	49
35	Novel Znâ€“Mâ€“O (M = Sn, Co) sensing electrodes for selective mixed potential CO/C3H8 sensors. Sensors and Actuators B: Chemical, 2013, 184, 220-227.	4.0	41
36	Methanol sensing micro-gas sensors of SnO2â€“ZnO nanofibers on Si/SiO2/Ti/Pt substrate via stepwise-heating electrospinning. Journal of Materials Science, 2015, 50, 4209-4220.	1.7	40

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37	Hydrogen sensing of the mixed-potential-type MnWO4/YSZ/Pt sensor. Sensors and Actuators B: Chemical, 2015, 206, 176-180.	4.0	38
38	Mixed potential hydrogen sensor using ZnWO4 sensing electrode. Sensors and Actuators B: Chemical, 2014, 195, 520-525.	4.0	37
39	Improvement of nanocrystalline BaTiO3 humidity sensing properties. Sensors and Actuators B: Chemical, 2000, 66, 159-160.	4.0	35
40	Detection of Formaldehyde in Mixed VOCs Gases Using Sensor Array With Neural Networks. IEEE Sensors Journal, 2016, 16, 6081-6086.	2.4	35
41	Mechanism for acetone sensing property of Pd-loaded SnO2 nanofibers prepared by electrospinning: Fermi-level effects. Journal of Materials Science, 2015, 50, 2605-2615.	1.7	33
42	Flexible room-temperature formaldehyde sensors based on rGO film and rGo/MoS₂ hybrid film. Nanotechnology, 2017, 28, 325501.	1.3	33
43	Tuning the electrical conductivity of amorphous carbon/reduced graphene oxide wrapped-Co₃O₄ternary nanofibers for highly sensitive chemical sensors. Journal of Materials Chemistry A, 2019, 7, 27522-27534.	5.2	33
44	Zinc Oxide Coated Tin Oxide Nanofibers for Improved Selective Acetone Sensing. Nanomaterials, 2018, 8, 509.	1.9	31
45	Electrospinning Hetero-Nanofibers In2O3/SnO2 of Homotype Heterojunction with High Gas Sensing Activity. Sensors, 2017, 17, 1822.	2.1	30
46	Characterization and humidity sensitivity of electrospun ZrO2:TiO2 hetero-nanofibers with double jets. Sensors and Actuators B: Chemical, 2012, 161, 1038-1045.	4.0	28
47	Influence of Doping on Humidity Sensing Properties of Nanocrystalline BaTiO3. Journal of Materials Science Letters, 1998, 17, 857-859.	0.5	27
48	A microscale formaldehyde gas sensor based on Zn2SnO4/SnO2 and produced by combining hydrothermal synthesis with post-synthetic heat treatment. Journal of Materials Science, 2014, 49, 1246-1255.	1.7	26
49	Potentiometric hydrogen sensors based on yttria-stabilized zirconia electrolyte (YSZ) and CdWO 4 interface. Sensors and Actuators B: Chemical, 2016, 223, 365-371.	4.0	25
50	The Effect of Zeolite Composition and Grain Size on Gas Sensing Properties of SnO2/Zeolite Sensor. Sensors, 2018, 18, 390.	2.1	25
51	Enhanced Gas Sensing Mechanisms of Metal Oxide Heterojunction Gas Sensors. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2016, 32, 1087-1104.	2.2	25
52	Preparation and characterization of La1â^'x Sr x FeO3 materials and their formaldehyde gas-sensing properties. Journal of Materials Science, 2013, 48, 441-450.	1.7	23
53	Preparation of modified MWCNTs-doped PANI nanorods by oxygen plasma and their ammonia-sensing properties. Journal of Materials Science, 2013, 48, 3597-3604.	1.7	23
54	Y-Doped ZnO Nanorods by Hydrothermal Method and Their Acetone Gas Sensitivity. Journal of Nanomaterials, 2013, 2013, 1-6.	1.5	22

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55	Mechanism analysis of BaTiO3 and polymer QAR composite humidity sensor. Thin Solid Films, 2007, 515, 8776-8779.	0.8	19
56	Synthesis, characterization and formaldehyde gas sensitivity of La0.7Sr0.3FeO3 nanoparticles assembled nanowires. Materials Chemistry and Physics, 2012, 134, 61-67.	2.0	19
57	Investigation of gas sensing materials tin oxide nanofibers treated by oxygen plasma. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	18
58	Property analysis and humidity sensitivity of the composite material of BaTiO3 and RMX. Materials Chemistry and Physics, 2001, 69, 288-291.	2.0	15
59	Development of Y3+ and Mg2+-doped zirconia thick film humidity sensors. Materials Chemistry and Physics, 2011, 126, 31-35.	2.0	15
60	Interaction of ammonia with intrazeolitic silver ions: Development of an ammonia sensor. Sensors and Actuators B: Chemical, 2014, 193, 542-551.	4.0	15
61	The improvement of gas-sensing properties of SnO2/zeolite-assembled composite. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	14
62	In 2 O 3 nanofibers surface modified by low-temperature RF plasma and their gas sensing properties. Materials Chemistry and Physics, 2018, 215, 316-326.	2.0	13
63	Preparation and Humidity Sensitivity of Multi-Layered Zirconia Thin Films by Solâ€“Gel Method. Sensor Letters, 2011, 9, 670-674.	0.4	12
64	Gas sensing behavior of palladium oxide for carbon monoxide at low working temperature. Sensors and Actuators B: Chemical, 2015, 212, 256-263.	4.0	12
65	Structure Analysis of Humidity Sensing Composite of BaTiO₃and Polymer QAR. Ferroelectrics, 2007, 355, 165-170.	0.3	8
66	Investigation on preparation of nano-size Gd0.2Ce0.8O2â˜Î´ material and its humidity sensing properties. Journal of Materials Science, 2010, 45, 1361-1365.	1.7	8
67	Structure and Gasâ€Sensing Behavior of Electrospun Titaniaâ€Doped Chromium Oxide Fibers. International Journal of Applied Ceramic Technology, 2013, 10, E304.	1.1	8
68	CuO-In₂O₃Core-Shell Nanowire Based Chemical Gas Sensors. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	8
69	Gas-sensing properties of composites of Y-zeolite and SnO2. Journal of Materials Science, 2018, 53, 6729-6740.	1.7	8
70	Au Functionalized SnS2 Nanosheets Based Chemiresistive NO2 Sensors. Chemosensors, 2022, 10, 165.	1.8	8
71	Complex Impedance Property of Humidity Sensing Material Lanthanum Orthoferrite. Ferroelectrics, 2005, 323, 71-76.	0.3	7
72	Deposition and sensing properties of PT/PZT/PT thin films for microforce sensors. Physica Scripta, 2007, T129, 209-212.	1.2	7

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73	Direct fabrication of La0.7Sr0.3FeO3 nanofibers with tunable hollow structures by electrospinning and their gas sensing properties. Journal of Materials Science, 2015, 50, 1338-1349.	1.7	7
74	Preliminary Study of Calibration System for PZT Thin Film Micro Force Sensor. Ferroelectrics, 2007, 358, 22-28.	0.3	5
75	Deposition and characterization of Pb(Zr,Ti)O3solâ€“gel thin films for piezoelectric cantilever beams. Smart Materials and Structures, 2007, 16, 93-99.	1.8	5
76	Preparation of Cd-Loaded In₂O₃Hollow Nanofibers by Electrospinning and Improvement of Formaldehyde Sensing Performance. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	5
77	Preparation of Y-Doped ZnO Nanofibers and Sensing Mechanism of the Gas Sensors. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2015, 31, 2405-2412.	2.2	5
78	The study of using an extreme learning machine for rapid concentration estimation in multi-component gas mixtures. Measurement Science and Technology, 2012, 23, 085101.	1.4	4
79	Identification of Formaldehyde under Different Interfering Gas Conditions with Nanostructured Semiconductor Gas Sensors. Nanomaterials and Nanotechnology, 2015, 5, 38.	1.2	4
80	Effect of CTAB Concentration on Synthesis and Sensing Properties of Perovskite Oxide via a Hydrothermal Process. Key Engineering Materials, 0, 543, 330-333.	0.4	3
81	Preparation and Gas Sensing Properties of PdO, Au, CdO Coatings on SnO₂ Nanofibers. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2015, 31, 1997-2004.	2.2	3
82	Comparison of Li+-doping sources on properties of ZnO piezoelectric films. Physica Scripta, 2007, T129, 149-152.	1.2	1
83	Study on Dielectric and Humidity Sensing Properties of La1-xSrxFeO3Materials. Ferroelectrics, 2010, 402, 79-88.	0.3	1
84	High Performance Humidity Sensor Based on Electrospun Zr _{0.9} Mg _{0.1} O _{2â^'Î´} Nanofibers. Chinese Physics Letters, 2012, 29, 110701.	1.3	1
85	BP Neural Network with Regularization and Sensor Array for Prediction of Component Concentration of Mixed Gas. Lecture Notes in Computer Science, 2018, , 541-548.	1.0	1
86	Study on Formaldehyde Gas Sensor Based on In₂O₃ Prepared by Microemulsion Method. Sensor Letters, 2011, 9, 665-669.	0.4	1
87	Oxygen-plasma-assisted formaldehyde adsorption mechanism of SnO2 electrospun fibers. Nanotechnology, 2021, , .	1.3	1
88	Increasing response of semiconductor gas sensor by using preconcentration method. , 2009, , .		0
89	Detection of Indoor Formaldehyde Concentration Using LaSrFeO₃-Doped SnO₂ Gas Sensor. Key Engineering Materials, 0, 437, 349-353.	0.4	0
90	Investigation of Gas Sensing Materials SnO₂/In₂O₃ Composite Nanofibers Treated by Oxygen Plasma. Key Engineering Materials, 0, 543, 180-183.	0.4	0

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91	P1.7.8 Direct fabrication of La0.7Sr0.3FeO3 hollow nanofibers by electrospinning and their gas sensing properties. , 2012, , .		0
92	P1.7.4 Preparation of In2O3/TiO2 composite nanofibers by electrospinning and their application as a HCHO gas sensor with two operating conditions. , 2012, , .		0