Mahnaz Shafiei

List of Publications by Year
in descending order

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Version: 2024-02-01

64 papers	2,447 citations	257357 24 h-index	197736 49 g-index
65 all docs	65 docs citations	65 times ranked	3596 citing authors

#	Article	IF	Citations
1	Nanoporous naphthalene diimide surface enhances humidity and ammonia sensing at room temperature. Sensors and Actuators B: Chemical, 2022, 351, 130972.	4.0	25
2	Enhancement in room temperature ammonia sensing properties of naphthalene diimides through core expansion. Journal of Materials Chemistry C, 2022, 10, 1326-1333.	2.7	10
3	Two-Dimensional Dy2O3-Pd-PDA/rGO Heterojunction Nanocomposite: Synergistic Effects of Hybridisation, UV Illumination and Relative Humidity on Hydrogen Gas Sensing. Chemosensors, 2022, 10, 78.	1.8	10
4	Photoactive semiconducting metal oxides: Hydrogen gas sensing mechanisms. International Journal of Hydrogen Energy, 2022, 47, 18208-18227.	3.8	12
5	Ultra-Sensitive Photo-Induced Hydrogen Gas Sensor Based on Two-Dimensional CeO2-Pd-PDA/rGO Heterojunction Nanocomposite. Nanomaterials, 2022, 12, 1628.	1.9	10
6	Metal Oxide Semiconductor Gas Sensors-based E-nose and Two-stage Classification: Authentication of Malaysia and Vietnam Black Pepper Samples. , 2022, , .		2
7	Enhanced amperometric acetone sensing using electrospun non-stoichiometric WO_{3â^'x} nanofibers. Journal of Materials Chemistry C, 2021, 9, 671-678.	2.7	17
8	Recent Advances in Perylene Diimide-Based Active Materials in Electrical Mode Gas Sensing. Chemosensors, 2021, 9, 30.	1.8	25
9	Hydrogen gas sensing properties of microwave-assisted 2D Hybrid Pd/rGO: Effect of temperature, humidity and UV illumination. International Journal of Hydrogen Energy, 2021, 46, 7653-7665.	3.8	71
10	Capacitive humidity sensing performance of naphthalene diimide derivatives at ambient temperature. Synthetic Metals, 2021, 275, 116739.	2.1	19
11	Substrate-mediated growth of oriented, vertically aligned MoS2 nanosheets on vicinal and on-axis SiC substrates. Applied Surface Science, 2021, 552, 149303.	3.1	12
12	Enhanced Capacitive Humidity Sensing Performance at Room Temperature via Hydrogen Bonding of Cyanopyridone-Based Oligothiophene Donor. Chemosensors, 2021, 9, 320.	1.8	10
13	Fraud detection of black pepper using metal oxide semiconductor gas sensors. , 2021, , .		2
14	Emerging 2D hybrid nanomaterials: towards enhanced sensitive and selective conductometric gas sensors at room temperature. Journal of Materials Chemistry C, 2020, 8, 13108-13126.	2.7	57
15	Synthesis and characterization of WS2/graphene/SiC van der Waals heterostructures via WO3â^'x thin film sulfurization. Scientific Reports, 2020, 10, 17334.	1.6	15
16	Electrostatic Twisting of Coreâ€"Shell Nanofibers for Strain Sensing Applications. ACS Applied Polymer Materials, 2020, 2, 4472-4480.	2.0	6
17	Geo-Tracing of Black Pepper Using Metal Oxide Semiconductor (MOS) Gas Sensors Array. IEEE Sensors Journal, 2020, 20, 8039-8045.	2.4	11
18	Internet of Things-based Hydrocarbon Sensing for Real-time Environmental Monitoring. , 2019, , .		15

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19	Efficiency enhancement of Cu2ZnSnS4 thin film solar cells by chromium doping. Solar Energy Materials and Solar Cells, 2019, 201, 110057.	3.0	18
20	Transferâ€Free Synthesis of Lateral Grapheneâ€“Hexagonal Boron Nitride Heterostructures from Chemically Converted Epitaxial Graphene. Advanced Materials Interfaces, 2019, 6, 1900419.	1.9	10
21	Low-operating temperature resistive nanostructured hydrogen sensors. International Journal of Hydrogen Energy, 2019, 44, 26646-26664.	3.8	53
22	Template based sintering of WO₃ nanoparticles into porous tungsten oxide nanofibers for acetone sensing applications. Journal of Materials Chemistry C, 2019, 7, 2961-2970.	2.7	33
23	Photo-assisted Amperometric Acetone Sensing of PVP/WO3 Hybrid Nanofibers. , 2019, , .		1
24	Humidity and VOC Sensing Performance of a PVP and PVP/ZSM5 Composite. , 2019, , .		2
25	Applications of low-cost sensing technologies for air quality monitoring and exposure assessment: How far have they gone?. Environment International, 2018, 116, 286-299.	4.8	477
26	Sensing performance of reduced graphene oxide-Fe doped WO3 hybrids to NO2 and humidity at room temperature. Applied Surface Science, 2018, 434, 126-133.	3.1	48
27	Optimization of Mo/Cr bilayer back contacts for thin-film solar cells. Beilstein Journal of Nanotechnology, 2018, 9, 2700-2707.	1.5	6
28	Electrospun one-dimensional nanostructures: a new horizon for gas sensing materials. Beilstein Journal of Nanotechnology, 2018, 9, 2128-2170.	1.5	48
29	Low-operating temperature NO2 gas sensors based on hybrid two-dimensional SnS2-reduced graphene oxide. Applied Surface Science, 2018, 462, 330-336.	3.1	89
30	Utilizing p-type native oxide on liquid metal microdroplets for low temperature gas sensing. Materials and Design, 2017, 122, 288-295.	3.3	64
31	Morphology of electrospun poly(ethylene oxide) ultra-fine fibres with incorporated MoO3 nanoparticles. Materials and Design, 2017, 113, 76-83.	3.3	11
32	Investigation of the room temperature gas sensing properties of metalâ€“organic charge transfer complex CuTCNQF₄. Journal of Materials Chemistry C, 2016, 4, 11173-11179.	2.7	13
33	Growth of graphene on cylindrical copper conductors as an anticorrosion coating: a microscopic study. Nanotechnology, 2016, 27, 285704.	1.3	4
34	Room temperature gas sensing properties of ultrathin carbon nanotube films by surfactant-free dip coating. Sensors and Actuators B: Chemical, 2016, 227, 128-134.	4.0	59
35	Development of new gas sensors based on oxidized galinstan. , 2015, , .		2
36	Conversion of n-Type CuTCNQ into p-Type Nitrogen-Doped CuO and the Implication for Room-Temperature Gas Sensing. Journal of Physical Chemistry C, 2015, 119, 22208-22216.	1.5	32

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37	Nb2O5 Schottky based ethanol vapour sensors: Effect of metallic catalysts. Sensors and Actuators B: Chemical, 2014, 202, 74-82.	4.0	55
38	Evolution of epitaxial graphene layers on 3C SiC/Si (1 1 1) as a function of annealing temperature in UHV. Carbon, 2014, 68, 563-572.	5.4	87
39	Highly NO₂ sensitive caesium doped graphene oxide conductometric sensors. Beilstein Journal of Nanotechnology, 2014, 5, 1073-1081.	1.5	37
40	A hydrogen/methane sensor based on niobium tungsten oxide nanorods synthesised by hydrothermal method. Sensors and Actuators B: Chemical, 2013, 184, 118-129.	4.0	37
41	Improving the hydrogen gas sensing performance of Pt/MoO3 nanoplatelets using a nano thick layer of La2O3. Sensors and Actuators B: Chemical, 2013, 187, 267-273.	4.0	27
42	Hydrothermally formed functional niobium oxide doped tungsten nanorods. Nanotechnology, 2013, 24, 495501.	1.3	15
43	Hexagon Platinum Schottky Contact with ZnO Thin Film for Hydrogen Sensing. Jurnal Teknologi (Sciences and Engineering), 2013, 64, .	0.3	0
44	Hydrogen gas sensing properties of Pt/Ta2O5 Schottky diodes based on Si and SiC substrates. Sensors and Actuators A: Physical, 2011, 172, 9-14.	2.0	27
45	The correlation between electric field emission phenomenon and Schottky contact reverse bias characteristics in nanostructured systems. Journal of Applied Physics, 2011, 109, 114316.	1.1	7
46	A Hydrogen Gas Sensor Based on Pt/Nanostructured WO3/SiC Schottky Diode. Sensor Letters, 2011, 9, 11-15.	0.4	19
47	Pt/Nanograined ZnO/SiC Schottky Diode Based Hydrogen and Propene Sensor. Sensor Letters, 2011, 9, 55-58.	0.4	4
48	Pt/Nanostructured RuO₂/SiC Schottky Diode Based Hydrogen Gas Sensors. Sensor Letters, 2011, 9, 797-800.	0.4	4
49	Hydrogen Gas Sensor Based on Highly Ordered Polyaniline/Multiwall Carbon Nanotubes Composite. Sensor Letters, 2011, 9, 940-943.	0.4	14
50	Hydrogen gas sensing properties of Pt/Ta2O5 Schottky diodes based on Si and SiC substrates. Procedia Engineering, 2010, 5, 147-151.	1.2	6
51	Reversed bias Pt/nanostructured ZnO Schottky diode with enhanced electric field for hydrogen sensingâ˜†. Sensors and Actuators B: Chemical, 2010, 146, 507-512.	4.0	77
52	Enhancement of electric field properties of Pt/nanoplatelet MoO₃/SiC Schottky diode. Journal Physics D: Applied Physics, 2010, 43, 025103.	1.3	25
53	Platinum/Graphene Nanosheet/SiC Contacts and Their Application for Hydrogen Gas Sensing. Journal of Physical Chemistry C, 2010, 114, 13796-13801.	1.5	160
54	Pt/TiO<inf>2</inf> nanotubes/SiC schottky diodes for hydrogen gas sensing applications. , 2010, , .		0

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55	Transition from n- to p-Type of Spray Pyrolysis Deposited Cu Doped ZnO Thin Films for NO₂ Sensing. Sensor Letters, 2009, 7, 621-628.	0.4	77
56	Reverse biased Pt/nanostructured MoO3/SiC Schottky diode based hydrogen gas sensors. Applied Physics Letters, 2009, 94, .	1.5	60
57	Reverse Biased Schottky Contact Hydrogen Sensors Based on Ptâˆ•nanostructured ZnOâˆ•SiC. , 2009, , .		2
58	ZnO nanostructures grown on epitaxial GaN. Thin Solid Films, 2009, 518, 1053-1056.	0.8	3
59	A comparison of forward and reverse bias operation in a Pt/nanostructured ZnO Schottky diode based hydrogen sensor. Procedia Chemistry, 2009, 1, 979-982.	0.7	13
60	Graphene-like nano-sheets for surface acoustic wave gas sensor applications. Chemical Physics Letters, 2009, 467, 344-347.	1.2	354
61	Nanowires of metal oxides for gas sensing applications. Surface and Interface Analysis, 2008, 40, 575-578.	0.8	31
62	Pt/ZnO/SiC thin film for hydrogen gas sensing. , 2008, , .		3
63	Pt/SnO<inf>2</inf> Nanowires/SiC Based Hydrogen Gas Sensor. , 2007, , .		1
64	Investigation of the Doping Effect on Cu2ZnSnS4 (CZTS) Thin Film Properties for Photovoltaic Applications. , 0, , .		0