

Mahnaz Shafiei

List of Publications by Year in descending order

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64
papers

2,447
citations

257357

24
h-index

197736

49
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65
all docs

65
docs citations

65
times ranked

3596
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Graphene-like nano-sheets for surface acoustic wave gas sensor applications. Chemical Physics Letters, 2009, 467, 344-347.	1.2	354
3	Platinum/Graphene Nanosheet/SiC Contacts and Their Application for Hydrogen Gas Sensing. Journal of Physical Chemistry C, 2010, 114, 13796-13801.	1.5	160
4	Low-operating temperature NO ₂ gas sensors based on hybrid two-dimensional SnS ₂ -reduced graphene oxide. Applied Surface Science, 2018, 462, 330-336.	3.1	89
5	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
6	Transition from n- to p-Type of Spray Pyrolysis Deposited Cu Doped ZnO Thin Films for NO ₂ Sensing. Sensor Letters, 2009, 7, 621-628.	0.4	77
7	Reversed bias Pt/nanostructured ZnO Schottky diode with enhanced electric field for hydrogen sensing. Sensors and Actuators B: Chemical, 2010, 146, 507-512.	4.0	77
8	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
9	Utilizing p-type native oxide on liquid metal microdroplets for low temperature gas sensing. Materials and Design, 2017, 122, 288-295.	3.3	64
10	Reverse biased Pt/nanostructured MoO ₃ /SiC Schottky diode based hydrogen gas sensors. Applied Physics Letters, 2009, 94, .	1.5	60
11	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
12	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
13	Nb ₂ O ₅ Schottky based ethanol vapour sensors: Effect of metallic catalysts. Sensors and Actuators B: Chemical, 2014, 202, 74-82.	4.0	55
14	Low-operating temperature resistive nanostructured hydrogen sensors. International Journal of Hydrogen Energy, 2019, 44, 26646-26664.	3.8	53
15	Sensing performance of reduced graphene oxide-Fe doped WO ₃ hybrids to NO ₂ and humidity at room temperature. Applied Surface Science, 2018, 434, 126-133.	3.1	48
16	Electrospun one-dimensional nanostructures: a new horizon for gas sensing materials. Beilstein Journal of Nanotechnology, 2018, 9, 2128-2170.	1.5	48
17	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
18	Highly NO ₂ sensitive caesium doped graphene oxide conductometric sensors. Beilstein Journal of Nanotechnology, 2014, 5, 1073-1081.	1.5	37

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19	Template based sintering of WO ₃ nanoparticles into porous tungsten oxide nanofibers for acetone sensing applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2961-2970.	2.7	33
20	Conversion of n-Type CuTCNQ into p-Type Nitrogen-Doped CuO and the Implication for Room-Temperature Gas Sensing. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22208-22216.	1.5	32
21	Nanowires of metal oxides for gas sensing applications. <i>Surface and Interface Analysis</i> , 2008, 40, 575-578.	0.8	31
22	Hydrogen gas sensing properties of Pt/Ta ₂ O ₅ Schottky diodes based on Si and SiC substrates. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 9-14.	2.0	27
23	Improving the hydrogen gas sensing performance of Pt/MoO ₃ nanoplatelets using a nano thick layer of La ₂ O ₃ . <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 267-273.	4.0	27
24	Enhancement of electric field properties of Pt/nanoplatelet MoO ₃ /SiC Schottky diode. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 025103.	1.3	25
25	Recent Advances in Perylene Diimide-Based Active Materials in Electrical Mode Gas Sensing. <i>Chemosensors</i> , 2021, 9, 30.	1.8	25
26	Nanoporous naphthalene diimide surface enhances humidity and ammonia sensing at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130972.	4.0	25
27	Capacitive humidity sensing performance of naphthalene diimide derivatives at ambient temperature. <i>Synthetic Metals</i> , 2021, 275, 116739.	2.1	19
28	A Hydrogen Gas Sensor Based on Pt/Nanostructured WO ₃ /SiC Schottky Diode. <i>Sensor Letters</i> , 2011, 9, 11-15.	0.4	19
29	Efficiency enhancement of Cu ₂ ZnSnS ₄ thin film solar cells by chromium doping. <i>Solar Energy Materials and Solar Cells</i> , 2019, 201, 110057.	3.0	18
30	Enhanced amperometric acetone sensing using electrospun non-stoichiometric WO _{3-x} nanofibers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 671-678.	2.7	17
31	Hydrothermally formed functional niobium oxide doped tungsten nanorods. <i>Nanotechnology</i> , 2013, 24, 495501.	1.3	15
32	Internet of Things-based Hydrocarbon Sensing for Real-time Environmental Monitoring. , 2019, , .		15
33	Synthesis and characterization of WS ₂ /graphene/SiC van der Waals heterostructures via WO _{3-x} thin film sulfurization. <i>Scientific Reports</i> , 2020, 10, 17334.	1.6	15
34	Hydrogen Gas Sensor Based on Highly Ordered Polyaniline/Multiwall Carbon Nanotubes Composite. <i>Sensor Letters</i> , 2011, 9, 940-943.	0.4	14
35	A comparison of forward and reverse bias operation in a Pt/nanostructured ZnO Schottky diode based hydrogen sensor. <i>Procedia Chemistry</i> , 2009, 1, 979-982.	0.7	13
36	Investigation of the room temperature gas sensing properties of metal-organic charge transfer complex CuTCNQF ₄ . <i>Journal of Materials Chemistry C</i> , 2016, 4, 11173-11179.	2.7	13

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37	Substrate-mediated growth of oriented, vertically aligned MoS ₂ nanosheets on vicinal and on-axis SiC substrates. <i>Applied Surface Science</i> , 2021, 552, 149303.	3.1	12
38	Photoactive semiconducting metal oxides: Hydrogen gas sensing mechanisms. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 18208-18227.	3.8	12
39	Morphology of electrospun poly(ethylene oxide) ultra-fine fibres with incorporated MoO ₃ nanoparticles. <i>Materials and Design</i> , 2017, 113, 76-83.	3.3	11
40	Geo-Tracing of Black Pepper Using Metal Oxide Semiconductor (MOS) Gas Sensors Array. <i>IEEE Sensors Journal</i> , 2020, 20, 8039-8045.	2.4	11
41	Transfer-Free Synthesis of Lateral Graphene-Hexagonal Boron Nitride Heterostructures from Chemically Converted Epitaxial Graphene. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900419.	1.9	10
42	Enhanced Capacitive Humidity Sensing Performance at Room Temperature via Hydrogen Bonding of Cyanopyridone-Based Oligothiophene Donor. <i>Chemosensors</i> , 2021, 9, 320.	1.8	10
43	Enhancement in room temperature ammonia sensing properties of naphthalene diimides through core expansion. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1326-1333.	2.7	10
44	Two-Dimensional Dy ₂ O ₃ -Pd-PDA/rGO Heterojunction Nanocomposite: Synergistic Effects of Hybridisation, UV Illumination and Relative Humidity on Hydrogen Gas Sensing. <i>Chemosensors</i> , 2022, 10, 78.	1.8	10
45	Ultra-Sensitive Photo-Induced Hydrogen Gas Sensor Based on Two-Dimensional CeO ₂ -Pd-PDA/rGO Heterojunction Nanocomposite. <i>Nanomaterials</i> , 2022, 12, 1628.	1.9	10
46	The correlation between electric field emission phenomenon and Schottky contact reverse bias characteristics in nanostructured systems. <i>Journal of Applied Physics</i> , 2011, 109, 114316.	1.1	7
47	Hydrogen gas sensing properties of Pt/Ta ₂ O ₅ Schottky diodes based on Si and SiC substrates. <i>Procedia Engineering</i> , 2010, 5, 147-151.	1.2	6
48	Optimization of Mo/Cr bilayer back contacts for thin-film solar cells. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2700-2707.	1.5	6
49	Electrostatic Twisting of Core-Shell Nanofibers for Strain Sensing Applications. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4472-4480.	2.0	6
50	Growth of graphene on cylindrical copper conductors as an anticorrosion coating: a microscopic study. <i>Nanotechnology</i> , 2016, 27, 285704.	1.3	4
51	Pt/Nanograined ZnO/SiC Schottky Diode Based Hydrogen and Propene Sensor. <i>Sensor Letters</i> , 2011, 9, 55-58.	0.4	4
52	Pt/Nanostructured RuO ₂ /SiC Schottky Diode Based Hydrogen Gas Sensors. <i>Sensor Letters</i> , 2011, 9, 797-800.	0.4	4
53	Pt/ZnO/SiC thin film for hydrogen gas sensing. , 2008, , .		3
54	ZnO nanostructures grown on epitaxial GaN. <i>Thin Solid Films</i> , 2009, 518, 1053-1056.	0.8	3

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55	Reverse Biased Schottky Contact Hydrogen Sensors Based on Pt/nanostructured ZnO/SiC. , 2009, , .		2
56	Development of new gas sensors based on oxidized galinstan. , 2015, , .		2
57	Humidity and VOC Sensing Performance of a PVP and PVP/ZSM5 Composite. , 2019, , .		2
58	Fraud detection of black pepper using metal oxide semiconductor gas sensors. , 2021, , .		2
59	Metal Oxide Semiconductor Gas Sensors-based E-nose and Two-stage Classification: Authentication of Malaysia and Vietnam Black Pepper Samples. , 2022, , .		2
60	Pt/SnO ₂ /Nanowires/SiC Based Hydrogen Gas Sensor. , 2007, , .		1
61	Photo-assisted Amperometric Acetone Sensing of PVP/WO ₃ Hybrid Nanofibers. , 2019, , .		1
62	Pt/TiO ₂ /nanotubes/SiC schottky diodes for hydrogen gas sensing applications. , 2010, , .		0
63	Hexagon Platinum Schottky Contact with ZnO Thin Film for Hydrogen Sensing. Jurnal Teknologi (Sciences and Engineering), 2013, 64, .	0.3	0
64	Investigation of the Doping Effect on Cu ₂ ZnSnS ₄ (CZTS) Thin Film Properties for Photovoltaic Applications. , 0, , .		0