

Xiaogan Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

3,150
citations

31
h-index

55
g-index

78
ext. papers

3,886
ext. citations

7.8
avg. IF

5.78
L-index

#	Paper	IF	Citations
78	Enhanced sensing performance of Au-decorated TiO ₂ nanospheres with hollow structure for formaldehyde detection at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2022 , 358, 131465	8.5	4
77	Enhanced Interactions of Gas Molecule with Defective Graphene Induced by Strong Coupling Effect between Carbon-Co in Co ₃ O ₄ : A Theoretical Study. <i>Applied Surface Science</i> , 2022 , 587, 152755	6.7	0
76	Au-Decorated WS ₂ Microflakes Based Sensors for Selective Ammonia Detection at Room Temperature. <i>Chemosensors</i> , 2022 , 10, 9	4	2
75	Layered MXene Heterostructured with In ₂ O ₃ Nanoparticles for Ammonia Sensors at Room Temperature. <i>Sensors and Actuators B: Chemical</i> , 2022 , 131918	8.5	2
74	Au Functionalized SnS ₂ Nanosheets Based Chemiresistive NO ₂ Sensors. <i>Chemosensors</i> , 2022 , 10, 165	4	0
73	AuPt Bimetal-Functionalized SnSe Microflower-Based Sensors for Detecting Sub-ppm NO at Low Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20336-20348	9.5	11
72	Enhanced ammonia sensing properties of rGO/WS ₂ heterojunction based chemiresistive sensor by marginal sulfonate decoration. <i>Sensors and Actuators B: Chemical</i> , 2021 , 337, 129776	8.5	10
71	MXene/SnO ₂ heterojunction based chemical gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129275	8.5	45
70	Microhotplate gas sensors incorporated with Al electrodes and 3D hierarchical structured PdO/PdO ₂ -SnO ₂ :Sb materials for sensitive VOC detection. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 128984	8.5	6
69	ZnSe/NiO heterostructure-based chemiresistive-type sensors for low-concentration NO ₂ detection. <i>Rare Metals</i> , 2021 , 40, 1632-1641	5.5	19
68	Graphene-Based Heterostructure Composite Sensing Materials for Detection of Nitrogen-Containing Harmful Gases. <i>Advanced Functional Materials</i> , 2021 , 31, 2104058	15.6	16
67	Au-modified 3D SnS ₂ nano-flowers for low-temperature NO ₂ sensors. <i>Sensors and Actuators B: Chemical</i> , 2021 , 349, 130775	8.5	8
66	Detection of Ppb-level NO ₂ using mesoporous ZnSe/SnO ₂ core-shell microspheres based chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2020 , 320, 128365	8.5	25
65	UV-activated formaldehyde sensing properties of hollow TiO ₂ @SnO ₂ heterojunctions at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2020 , 319, 128264	8.5	28
64	p-n Transition-Enhanced Sensing Properties of rGO-SnO ₂ Heterojunction to NO ₂ at Room Temperature. <i>IEEE Sensors Journal</i> , 2020 , 20, 4562-4570	4	4
63	Alternating Current Photovoltaic Effect. <i>Advanced Materials</i> , 2020 , 32, e1907249	24	23
62	Visible-light activated room temperature NO ₂ sensing of SnS ₂ nanosheets based chemiresistive sensors. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127455	8.5	58

61	Layered SnSe ₂ microflakes and SnSe ₂ /SnO ₂ heterojunctions for low-temperature chemiresistive-type gas sensing. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15804-15815	7.1	16
60	Dramatically Enhanced Broadband Photodetection by Dual Inversion Layers and Fowler-Nordheim Tunneling. <i>ACS Nano</i> , 2019 , 13, 2289-2297	16.7	6
59	UV Light Activated SnO ₂ /ZnO Nanofibers for Gas Sensing at Room Temperature. <i>Frontiers in Materials</i> , 2019 , 6,	4	9
58	Room Temperature Formaldehyde Sensing of Hollow SnO ₂ /ZnO Heterojunctions Under UV-LED Activation. <i>IEEE Sensors Journal</i> , 2019 , 19, 7207-7214	4	12
57	Ultrasensitive NO Detection Utilizing Mesoporous ZnSe/ZnO Heterojunction-Based Chemiresistive-Type Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29029-29040	9.5	43
56	Tuning the electrical conductivity of amorphous carbon/reduced graphene oxide wrapped-Co ₃ O ₄ ternary nanofibers for highly sensitive chemical sensors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27522-27534 ¹³	21	
55	A full-packaged rolling triboelectric-electromagnetic hybrid nanogenerator for energy harvesting and building up self-powered wireless systems. <i>Nano Energy</i> , 2019 , 56, 300-306	17.1	62
54	Reduced graphene oxide hybridized with WS ₂ nanoflakes based heterojunctions for selective ammonia sensors at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 290-299	8.5	67
53	Gas-sensing properties of composites of Y-zeolite and SnO ₂ . <i>Journal of Materials Science</i> , 2018 , 53, 6729-6740	6	
52	Rolling friction contact-separation mode hybrid triboelectric nanogenerator for mechanical energy harvesting and self-powered multifunctional sensors. <i>Nano Energy</i> , 2018 , 47, 539-546	17.1	54
51	Light enhanced VOCs sensing of WS ₂ microflakes based chemiresistive sensors powered by triboelectric nanogenerators. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 992-1000	8.5	55
50	The Effect of Zeolite Composition and Grain Size on Gas Sensing Properties of SnO ₂ /Zeolite Sensor. <i>Sensors</i> , 2018 , 18,	3.8	13
49	The improvement of gas-sensing properties of SnO ₂ /zeolite-assembled composite. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	10
48	Multifunctional TENG for Blue Energy Scavenging and Self-Powered Wind-Speed Sensor. <i>Advanced Energy Materials</i> , 2017 , 7, 1602397	21.8	196
47	High efficient harvesting of underwater ultrasonic wave energy by triboelectric nanogenerator. <i>Nano Energy</i> , 2017 , 38, 101-108	17.1	102
46	Enhanced NO ₂ sensing of SnO ₂ /SnS ₂ heterojunction based sensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 244, 67-76	8.5	141
45	Percolation effect of reduced graphene oxide (rGO) on ammonia sensing of rGO-SnO ₂ composite based sensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 1115-1126	8.5	70
44	WS ₂ nanoflakes based selective ammonia sensors at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 273-277	8.5	172

43	Piezo-Phototronic Effect on Selective Electron or Hole Transport through Depletion Region of Vis-NIR Broadband Photodiode. <i>Advanced Materials</i> , 2017 , 29, 1701412	24	62
42	Reduced graphene oxide (rGO) encapsulated Co ₃ O ₄ composite nanofibers for highly selective ammonia sensors. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 864-870	8.5	146
41	Detection of Formaldehyde in Mixed VOCs Gases Using Sensor Array With Neural Networks. <i>IEEE Sensors Journal</i> , 2016 , 16, 6081-6086	4	23
40	SnO ₂ (Au ₀ , CoII, III) nanocomposites: A synergistic effect of the modifiers in CO detection. <i>Inorganic Materials</i> , 2016 , 52, 94-100	0.9	6
39	Reduced graphene oxide (rGO) decorated TiO ₂ microspheres for selective room-temperature gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2016 , 230, 330-336	8.5	128
38	Preparation of BaSnO ₃ and Ba _{0.96} La _{0.04} SnO ₃ by reactive core-shell precursor: formation process, CO sensitivity, electronic and optical properties analysis. <i>RSC Advances</i> , 2016 , 6, 25379-25387	3.7	11
37	Potentiometric hydrogen sensors based on yttria-stabilized zirconia electrolyte (YSZ) and CdWO ₄ interface. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 365-371	8.5	16
36	Synthesis and gas sensing properties of porous hierarchical SnO ₂ by grapefruit exocarp biotemplate. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 1134-1143	8.5	67
35	UV activated hollow ZnO microspheres for selective ethanol sensors at low temperatures. <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 158-164	8.5	64
34	Hydrogen sensing of the mixed-potential-type MnWO ₄ /YSZ/Pt sensor. <i>Sensors and Actuators B: Chemical</i> , 2015 , 206, 176-180	8.5	32
33	Investigation of gas sensing properties of SnO ₂ /In ₂ O ₃ composite hetero-nanofibers treated by oxygen plasma. <i>Sensors and Actuators B: Chemical</i> , 2015 , 206, 753-763	8.5	38
32	Preparation of Y-Doped ZnO Nanofibers and Sensing Mechanism of the Gas Sensors. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2015 , 31, 2405-2412	3.8	5
31	Gas sensing behavior of palladium oxide for carbon monoxide at low working temperature. <i>Sensors and Actuators B: Chemical</i> , 2015 , 212, 256-263	8.5	11
30	Highly sensitive and selective room-temperature formaldehyde sensors using hollow TiO ₂ microspheres. <i>Sensors and Actuators B: Chemical</i> , 2015 , 219, 158-163	8.5	104
29	NiO-wrapped mesoporous TiO ₂ microspheres based selective ammonia sensor at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 729-734	8.5	50
28	Hollow hierarchical SnO ₂ -ZnO composite nanofibers with heterostructure based on electrospinning method for detecting methanol. <i>Sensors and Actuators B: Chemical</i> , 2014 , 192, 543-549	8.5	119
27	Organic electrochemical transistor based biosensor for detecting marine diatoms in seawater medium. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 677-682	8.5	17
26	Mixed potential hydrogen sensor using ZnWO ₄ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2014 , 195, 520-525	8.5	30

25	Toluene sensing properties of porous Pd-loaded flower-like SnO ₂ microspheres. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 795-802	8.5	43
24	The Influence of Atmosphere on Electrical Property of Copper Oxide Nanoparticles. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-6	3.2	3
23	Enhanced room temperature sensing of Co ₃ O ₄ -intercalated reduced graphene oxide based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 188, 902-908	8.5	160
22	Structure and Gas-Sensing Behavior of Electrospun Titania-Doped Chromium Oxide Fibers. <i>International Journal of Applied Ceramic Technology</i> , 2013 , 10, E304-E309	2	7
21	Room temperature impedance spectroscopy-based sensing of formaldehyde with porous TiO ₂ under UV illumination. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 1-9	8.5	102
20	Novel ZnMnO ₄ (M=Sn, Co) sensing electrodes for selective mixed potential CO/C ₃ H ₈ sensors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 184, 220-227	8.5	39
19	Morphological control of GaAs/InAs radial heterostructure nanowires: From cylindrical to coherent quantum dot structure. <i>Journal of Applied Physics</i> , 2013 , 113, 114301	2.5	9
18	Growth and large-scale assembly of InAs/InP core/shell nanowire: effect of shell thickness on electrical characteristics. <i>Nanotechnology</i> , 2013 , 24, 245306	3.4	12
17	Characterization and humidity sensitivity of electrospun ZrO ₂ :TiO ₂ hetero-nanofibers with double jets. <i>Sensors and Actuators B: Chemical</i> , 2012 , 161, 1038-1045	8.5	24
16	Hierarchical structured TiO ₂ nano-tubes for formaldehyde sensing. <i>Ceramics International</i> , 2012 , 38, 6341-6347	5.1	49
15	Fabrication of free-standing TiO ₂ nanotube membranes with through-hole morphology. <i>Crystal Research and Technology</i> , 2012 , 47, 731-737	1.3	6
14	Exploitation of unique properties of zeolites in the development of gas sensors. <i>Sensors</i> , 2012 , 12, 5170-5178	3.8	73
13	Effects of surface and morphological properties of zeolite on impedance spectroscopy-based sensing performance. <i>Sensors</i> , 2012 , 12, 13284-94	3.8	3
12	Synthesis of Birnessite-Type MnO ₂ by the In-Situ Electrochemical Oxidation of Mn ₃ O ₄ Film for Supercapacitors. <i>Nanoscience and Nanotechnology Letters</i> , 2012 , 4, 559-563	0.8	11
11	Porous manganese oxide generated from lithiation/delithiation with improved electrochemical oxidation for supercapacitors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15521		40
10	A selective room temperature formaldehyde gas sensor using TiO ₂ nanotube arrays. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 505-509	8.5	161
9	La-Doped Ba ₂ In ₂ O ₅ Electrolyte: Pechini Synthesis, Microstructure, Electrical Conductivity, and Application for CO Gas Sensing. <i>Journal of the Electrochemical Society</i> , 2010 , 157, J2853-9	3.9	4
8	Interaction of Dimethylmethylphosphonate with Zeolite Y: Impedance-Based Sensor for Detecting Nerve Agent Simulants. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7986-7994	3.8	26

7	Gibbs energy of formation of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ and phase relations in the system $\text{CaO}-\text{CuO}/\text{Cu}_2\text{O}-\text{TiO}_2$. <i>Acta Materialia</i> , 2008 , 56, 4798-4803	8.4	24
6	$(\text{Ba}_x\text{La}_{1-x})_2\text{In}_2\text{O}_{5+x}$ (0.4 Analytical Chemistry, 2007 , 79, 8940-6	7.8	8
5	Influence of sensing electrode and electrolyte on performance of potentiometric mixed-potential gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 254-261	8.5	34
4	Influence of thickness of ITO sensing electrode film on sensing performance of planar mixed potential CO sensor. <i>Sensors and Actuators B: Chemical</i> , 2006 , 120, 150-155	8.5	31
3	Novel Nanosized ITO Electrode for Mixed Potential Gas Sensor. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, H27		25
2	Synthesis and characterizations of nanosized tin-doped indium oxide by different soft-chemical routes. <i>Progress in Natural Science: Materials International</i> , 2005 , 15, 30-34	3.6	10
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