

# Xiaogan Li

## List of Publications by Citations

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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	Multifunctional TENG for Blue Energy Scavenging and Self-Powered Wind-Speed Sensor. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602397	21.8	196
77	WS2 nanoflakes based selective ammonia sensors at room temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 240, 273-277	8.5	172
76	A selective room temperature formaldehyde gas sensor using TiO <sub>2</sub> nanotube arrays. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 156, 505-509	8.5	161
75	Enhanced room temperature sensing of Co <sub>3</sub> O <sub>4</sub> -intercalated reduced graphene oxide based gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 188, 902-908	8.5	160
74	Reduced graphene oxide (rGO) encapsulated Co <sub>3</sub> O <sub>4</sub> composite nanofibers for highly selective ammonia sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 222, 864-870	8.5	146
73	Enhanced NO <sub>2</sub> sensing of SnO <sub>2</sub> /SnS <sub>2</sub> heterojunction based sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 244, 67-76	8.5	141
72	Reduced graphene oxide (rGO) decorated TiO <sub>2</sub> microspheres for selective room-temperature gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 230, 330-336	8.5	128
71	Hollow hierarchical SnO <sub>2</sub> -ZnO composite nanofibers with heterostructure based on electrospinning method for detecting methanol. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 192, 543-549	8.5	119
70	Highly sensitive and selective room-temperature formaldehyde sensors using hollow TiO <sub>2</sub> microspheres. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 219, 158-163	8.5	104
69	High efficient harvesting of underwater ultrasonic wave energy by triboelectric nanogenerator. <i>Nano Energy</i> , <b>2017</b> , 38, 101-108	17.1	102
68	Room temperature impedance spectroscopy-based sensing of formaldehyde with porous TiO <sub>2</sub> under UV illumination. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 185, 1-9	8.5	102
67	Exploitation of unique properties of zeolites in the development of gas sensors. <i>Sensors</i> , <b>2012</b> , 12, 5170-5184	3.8	73
66	Percolation effect of reduced graphene oxide (rGO) on ammonia sensing of rGO-SnO <sub>2</sub> composite based sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 243, 1115-1126	8.5	70
65	Synthesis and gas sensing properties of porous hierarchical SnO <sub>2</sub> by grapefruit exocarp biotemplate. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 222, 1134-1143	8.5	67
64	Reduced graphene oxide hybridized with WS <sub>2</sub> nanoflakes based heterojunctions for selective ammonia sensors at room temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 282, 290-299	8.5	67
63	UV activated hollow ZnO microspheres for selective ethanol sensors at low temperatures. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 232, 158-164	8.5	64
62	A full-packaged rolling triboelectric-electromagnetic hybrid nanogenerator for energy harvesting and building up self-powered wireless systems. <i>Nano Energy</i> , <b>2019</b> , 56, 300-306	17.1	62

61	Piezo-Phototronic Effect on Selective Electron or Hole Transport through Depletion Region of Vis-NIR Broadband Photodiode. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701412	24	62
60	Visible-light activated room temperature NO <sub>2</sub> sensing of SnS <sub>2</sub> nanosheets based chemiresistive sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 305, 127455	8.5	58
59	Light enhanced VOCs sensing of WS <sub>2</sub> microflakes based chemiresistive sensors powered by triboelectric nanogenerators. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 256, 992-1000	8.5	55
58	Rolling friction contact-separation mode hybrid triboelectric nanogenerator for mechanical energy harvesting and self-powered multifunctional sensors. <i>Nano Energy</i> , <b>2018</b> , 47, 539-546	17.1	54
57	NiO-wrapped mesoporous TiO <sub>2</sub> microspheres based selective ammonia sensor at room temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 209, 729-734	8.5	50
56	Hierarchical structured TiO <sub>2</sub> nano-tubes for formaldehyde sensing. <i>Ceramics International</i> , <b>2012</b> , 38, 6341-6347	5.1	49
55	MXene/SnO <sub>2</sub> heterojunction based chemical gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 329, 129275	8.5	45
54	Ultrasensitive NO Detection Utilizing Mesoporous ZnSe/ZnO Heterojunction-Based Chemiresistive-Type Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29029-29040	9.5	43
53	Toluene sensing properties of porous Pd-loaded flower-like SnO <sub>2</sub> microspheres. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 202, 795-802	8.5	43
52	Porous manganese oxide generated from lithiation/delithiation with improved electrochemical oxidation for supercapacitors. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15521		40
51	Novel Zn <sub>1-x</sub> M <sub>x</sub> O (M=Sn, Co) sensing electrodes for selective mixed potential CO/C <sub>3</sub> H <sub>8</sub> sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 184, 220-227	8.5	39
50	Investigation of gas sensing properties of SnO <sub>2</sub> /In <sub>2</sub> O <sub>3</sub> composite hetero-nanofibers treated by oxygen plasma. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 206, 753-763	8.5	38
49	Influence of sensing electrode and electrolyte on performance of potentiometric mixed-potential gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 123, 254-261	8.5	34
48	Hydrogen sensing of the mixed-potential-type MnWO <sub>4</sub> /YSZ/Pt sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 206, 176-180	8.5	32
47	Influence of thickness of ITO sensing electrode film on sensing performance of planar mixed potential CO sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 120, 150-155	8.5	31
46	Mixed potential hydrogen sensor using ZnWO <sub>4</sub> sensing electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 195, 520-525	8.5	30
45	UV-activated formaldehyde sensing properties of hollow TiO <sub>2</sub> @SnO <sub>2</sub> heterojunctions at room temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 319, 128264	8.5	28
44	Interaction of Dimethylmethylphosphonate with Zeolite Y: Impedance-Based Sensor for Detecting Nerve Agent Simulants. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 7986-7994	3.8	26

43	Detection of Ppb-level NO <sub>2</sub> using mesoporous ZnSe/SnO <sub>2</sub> core-shell microspheres based chemical sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 320, 128365	8.5	25
42	Novel Nanosized ITO Electrode for Mixed Potential Gas Sensor. <i>Electrochemical and Solid-State Letters</i> , <b>2005</b> , 8, H27		25
41	Characterization and humidity sensitivity of electrospun ZrO <sub>2</sub> :TiO <sub>2</sub> hetero-nanofibers with double jets. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 161, 1038-1045	8.5	24
40	Gibbs energy of formation of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> and phase relations in the system CaO-CuO/Cu <sub>2</sub> O-TiO <sub>2</sub> . <i>Acta Materialia</i> , <b>2008</b> , 56, 4798-4803	8.4	24
39	Alternating Current Photovoltaic Effect. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907249	24	23
38	Detection of Formaldehyde in Mixed VOCs Gases Using Sensor Array With Neural Networks. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 6081-6086	4	23
37	Tuning the electrical conductivity of amorphous carbon/reduced graphene oxide wrapped-Co <sub>3</sub> O <sub>4</sub> ternary nanofibers for highly sensitive chemical sensors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27522-27534 <sup>13,21</sup>		
36	ZnSe/NiO heterostructure-based chemiresistive-type sensors for low-concentration NO <sub>2</sub> detection. <i>Rare Metals</i> , <b>2021</b> , 40, 1632-1641	5.5	19
35	Organic electrochemical transistor based biosensor for detecting marine diatoms in seawater medium. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 203, 677-682	8.5	17
34	Potentiometric hydrogen sensors based on yttria-stabilized zirconia electrolyte (YSZ) and CdWO <sub>4</sub> interface. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 223, 365-371	8.5	16
33	Layered SnSe <sub>2</sub> microflakes and SnSe <sub>2</sub> /SnO <sub>2</sub> heterojunctions for low-temperature chemiresistive-type gas sensing. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15804-15815	7.1	16
32	Graphene-Based Heterostructure Composite Sensing Materials for Detection of Nitrogen-Containing Harmful Gases. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104058	15.6	16
31	The Effect of Zeolite Composition and Grain Size on Gas Sensing Properties of SnO <sub>2</sub> /Zeolite Sensor. <i>Sensors</i> , <b>2018</b> , 18,	3.8	13
30	Room Temperature Formaldehyde Sensing of Hollow SnO <sub>2</sub> /ZnO Heterojunctions Under UV-LED Activation. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 7207-7214	4	12
29	Growth and large-scale assembly of InAs/InP core/shell nanowire: effect of shell thickness on electrical characteristics. <i>Nanotechnology</i> , <b>2013</b> , 24, 245306	3.4	12
28	Preparation of BaSnO <sub>3</sub> and Ba <sub>0.96</sub> La <sub>0.04</sub> SnO <sub>3</sub> by reactive core-shell precursor: formation process, CO sensitivity, electronic and optical properties analysis. <i>RSC Advances</i> , <b>2016</b> , 6, 25379-25387	3.7	11
27	Gas sensing behavior of palladium oxide for carbon monoxide at low working temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 212, 256-263	8.5	11
26	Synthesis of Birnessite-Type MnO <sub>2</sub> by the In-Situ Electrochemical Oxidation of Mn <sub>3</sub> O <sub>4</sub> Film for Supercapacitors. <i>Nanoscience and Nanotechnology Letters</i> , <b>2012</b> , 4, 559-563	0.8	11

25	AuPt Bimetal-Functionalized SnSe Microflower-Based Sensors for Detecting Sub-ppm NO at Low Temperatures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 20336-20348	9.5	11
24	The improvement of gas-sensing properties of SnO <sub>2</sub> /zeolite-assembled composite. <i>Journal of Nanoparticle Research</i> , <b>2018</b> , 20, 1	2.3	10
23	Synthesis and characterizations of nanosized tin-doped indium oxide by different soft-chemical routes. <i>Progress in Natural Science: Materials International</i> , <b>2005</b> , 15, 30-34	3.6	10
22	Enhanced ammonia sensing properties of rGO/WS <sub>2</sub> heterojunction based chemiresistive sensor by marginal sulfonate decoration. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 337, 129776	8.5	10
21	UV Light Activated SnO <sub>2</sub> /ZnO Nanofibers for Gas Sensing at Room Temperature. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	9
20	Morphological control of GaAs/InAs radial heterostructure nanowires: From cylindrical to coherent quantum dot structure. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 114301	2.5	9
19	(Ba <sub>x</sub> )La <sub>(1-x)</sub> ( <sub>2</sub> )In( <sub>2</sub> )O( <sub>5+x</sub> ) (0.4 Analytical Chemistry, <b>2007</b> , 79, 8940-6	7.8	8
18	Au-modified 3D SnS <sub>2</sub> nano-flowers for low-temperature NO <sub>2</sub> sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 349, 130775	8.5	8
17	Structure and Gas-Sensing Behavior of Electrospun Titania-Doped Chromium Oxide Fibers. <i>International Journal of Applied Ceramic Technology</i> , <b>2013</b> , 10, E304-E309	2	7
16	Dramatically Enhanced Broadband Photodetection by Dual Inversion Layers and Fowler-Nordheim Tunneling. <i>ACS Nano</i> , <b>2019</b> , 13, 2289-2297	16.7	6
15	Gas-sensing properties of composites of Y-zeolite and SnO <sub>2</sub> . <i>Journal of Materials Science</i> , <b>2018</b> , 53, 6729-6740	4.6	6
14	SnO <sub>2</sub> (Au <sub>0</sub> , Co <sub>II</sub> , III) nanocomposites: A synergistic effect of the modifiers in CO detection. <i>Inorganic Materials</i> , <b>2016</b> , 52, 94-100	0.9	6
13	Fabrication of free-standing TiO <sub>2</sub> nanotube membranes with through-hole morphology. <i>Crystal Research and Technology</i> , <b>2012</b> , 47, 731-737	1.3	6
12	Microhotplate gas sensors incorporated with Al electrodes and 3D hierarchical structured PdO/PdO <sub>2</sub> -SnO <sub>2</sub> :Sb materials for sensitive VOC detection. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 329, 128984	8.5	6
11	Preparation of Y-Doped ZnO Nanofibers and Sensing Mechanism of the Gas Sensors. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2015</b> , 31, 2405-2412	3.8	5
10	p-n Transition-Enhanced Sensing Properties of rGO-SnO <sub>2</sub> Heterojunction to NO <sub>2</sub> at Room Temperature. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 4562-4570	4	4
9	La-Doped Ba <sub>[sub 2]</sub> In <sub>[sub 2]</sub> O <sub>[sub 5]</sub> Electrolyte: Pechini Synthesis, Microstructure, Electrical Conductivity, and Application for CO Gas Sensing. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, J2853-9	3.9	4
8	Enhanced sensing performance of Au-decorated TiO <sub>2</sub> nanospheres with hollow structure for formaldehyde detection at room temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 358, 131465	8.5	4

7	The Influence of Atmosphere on Electrical Property of Copper Oxide Nanoparticles. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-6	3.2	3
6	Effects of surface and morphological properties of zeolite on impedance spectroscopy-based sensing performance. <i>Sensors</i> , <b>2012</b> , 12, 13284-94	3.8	3
5	Au-Decorated WS <sub>2</sub> Microflakes Based Sensors for Selective Ammonia Detection at Room Temperature. <i>Chemosensors</i> , <b>2022</b> , 10, 9	4	2
4	Layered MXene Heterostructured with In <sub>2</sub> O <sub>3</sub> Nanoparticles for Ammonia Sensors at Room Temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 131918	8.5	2
3			
2	Enhanced Interactions of Gas Molecule with Defective Graphene Induced by Strong Coupling Effect between Carbon-Co in Co <sub>3</sub> O <sub>4</sub> : A Theoretical Study. <i>Applied Surface Science</i> , <b>2022</b> , 587, 152755	6.7	0
1	Au Functionalized SnS <sub>2</sub> Nanosheets Based Chemiresistive NO <sub>2</sub> Sensors. <i>Chemosensors</i> , <b>2022</b> , 10, 165	4	0