

# Qi Wang

## List of Publications by Year in descending order

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76  
papers

3,259  
citations

109321

35  
h-index

155660

55  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation, characterization and acetone sensing properties of Ce-doped SnO <sub>2</sub> hollow spheres. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 839-846.	7.8	174
2	Enhanced methanol gas-sensing performance of Ce-doped In <sub>2</sub> O <sub>3</sub> porous nanospheres prepared by hydrothermal method. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 488-496.	7.8	152
3	Facile synthesis, characterization and gas sensing performance of ZnO nanoparticles-coated MoS <sub>2</sub> nanosheets. <i>Journal of Alloys and Compounds</i> , 2016, 662, 118-125.	5.5	125
4	Hydrothermal synthesis of porous In <sub>2</sub> O <sub>3</sub> nanospheres with superior ethanol sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 434-439.	7.8	121
5	Flexible MXene/rGO/CuO hybrid aerogels for high performance acetone sensing at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129946.	7.8	117
6	Highly sensitive detection of acetone using mesoporous In <sub>2</sub> O <sub>3</sub> nanospheres decorated with Au nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 983-993.	7.8	115
7	Preparation of biomorphic porous LaFeO <sub>3</sub> by sorghum straw biotemplate method and its acetone sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 140-146.	7.8	106
8	A low temperature gas sensor based on Au-loaded MoS <sub>2</sub> hierarchical nanostructures for detecting ammonia. <i>Ceramics International</i> , 2016, 42, 9327-9331.	4.8	103
9	Synthesis and gas sensing properties of biomorphic LaFeO <sub>3</sub> hollow fibers templated from cotton. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 248-254.	7.8	96
10	MOF-derived $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> porous spindle combined with reduced graphene oxide for improvement of TEA sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127306.	7.8	83
11	Preparation of porous LaFeO <sub>3</sub> microspheres and their gas-sensing property. <i>Applied Surface Science</i> , 2015, 337, 65-71.	6.1	80
12	In <sub>2</sub> O <sub>3</sub> nanocubes/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene composites for enhanced methanol gas sensing properties at room temperature. <i>Ceramics International</i> , 2021, 47, 23028-23037.	4.8	78
13	$\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanocubes/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene composites for improvement of acetone sensing performance at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130782.	7.8	72
14	Self-assembled hierarchical Au-loaded In <sub>2</sub> O <sub>3</sub> hollow microspheres with superior ethanol sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 245-255.	7.8	70
15	Trimethylamine detection of 3D rGO/mesoporous In <sub>2</sub> O <sub>3</sub> nanocomposites at room temperature. <i>Applied Surface Science</i> , 2019, 465, 625-634.	6.1	70
16	Enhanced trimethylamine sensing performance of single-crystal MoO <sub>3</sub> nanobelts decorated with Au nanoparticles. <i>Journal of Alloys and Compounds</i> , 2016, 685, 1024-1033.	5.5	66
17	Acetone sensing characteristics of ZnO hollow spheres prepared by one-pot hydrothermal reaction. <i>Materials Letters</i> , 2012, 86, 168-170.	2.6	64
18	Spindle-like Fe <sub>2</sub> O <sub>3</sub> /ZnFe <sub>2</sub> O <sub>4</sub> porous nanocomposites derived from metal-organic frameworks with excellent sensing performance towards triethylamine. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128205.	7.8	64

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19	Construction of porous LaFeO <sub>3</sub> microspheres decorated with NiO nanosheets for high response ethanol gas sensors. <i>Applied Surface Science</i> , 2020, 515, 146025.	6.1	64
20	Facile approach to prepare hierarchical Au-loaded In <sub>2</sub> O <sub>3</sub> porous nanocubes and their enhanced sensing performance towards formaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 1130-1138.	7.8	63
21	Template-assisted synthesis of hierarchical MoO <sub>3</sub> microboxes and their high gas-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 458-466.	7.8	60
22	Metal-organic frameworks-derived In <sub>2</sub> O <sub>3</sub> microtubes/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene composites for NH <sub>3</sub> detection at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2022, 361, 131755.	7.8	59
23	In situ formation of one-dimensional CoMoO <sub>4</sub> /MoO <sub>3</sub> heterojunction as an effective trimethylamine gas sensor. <i>Ceramics International</i> , 2018, 44, 3364-3370.	4.8	57
24	Cu <sub>2</sub> O-BiOI isotype (p-p) heterojunction: Boosted visible-light-driven photoelectrochemical activity for non-enzymatic H <sub>2</sub> O <sub>2</sub> sensing. <i>Applied Surface Science</i> , 2020, 521, 146434.	6.1	52
25	A simple large-scale synthesis of mesoporous In <sub>2</sub> O <sub>3</sub> for gas sensing applications. <i>Applied Surface Science</i> , 2016, 378, 443-450.	6.1	47
26	Sensing performance of $\delta$ -Fe <sub>2</sub> O <sub>3</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nanocomposites to NH <sub>3</sub> at room temperature. <i>Journal of Alloys and Compounds</i> , 2022, 898, 162812.	5.5	47
27	ppb level triethylamine detection of yolk-shell SnO <sub>2</sub> /Au/Fe <sub>2</sub> O <sub>3</sub> nanoboxes at low-temperature. <i>Applied Surface Science</i> , 2019, 476, 391-401.	6.1	46
28	ZnSnO <sub>3</sub> nanocubes/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene composites for enhanced formaldehyde gas sensing properties at room temperature. <i>Applied Surface Science</i> , 2022, 598, 153861.	6.1	46
29	Synthesis of novel RuO <sub>2</sub> /LaFeO <sub>3</sub> porous microspheres its gas sensing performances towards triethylamine. <i>Journal of Alloys and Compounds</i> , 2019, 806, 960-967.	5.5	45
30	Flower-like In <sub>2</sub> O <sub>3</sub> hierarchical nanostructures: synthesis, characterization, and gas sensing properties. <i>RSC Advances</i> , 2014, 4, 50241-50248.	3.6	43
31	In <sub>2</sub> O <sub>3</sub> -functionalized MoO <sub>3</sub> heterostructure nanobelts with improved gas-sensing performance. <i>RSC Advances</i> , 2016, 6, 50423-50430.	3.6	42
32	Metal-organic framework-derived Cr-doped hollow In <sub>2</sub> O <sub>3</sub> nanoboxes with excellent gas-sensing performance toward ammonia. <i>Journal of Alloys and Compounds</i> , 2021, 879, 160472.	5.5	42
33	Synthesis of Ba-doped porous LaFeO <sub>3</sub> microspheres with perovskite structure for rapid detection of ethanol gas. <i>Rare Metals</i> , 2021, 40, 1651-1661.	7.1	40
34	Synthesis of porous SnO <sub>2</sub> hexagon nanosheets loaded with Au nanoparticles for high performance gas sensors. <i>Materials Letters</i> , 2017, 201, 211-215.	2.6	37
35	Au nanoparticles modified MoO <sub>3</sub> nanosheets with their enhanced properties for gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 201-207.	7.8	36
36	Hierarchical peony-like Sb-doped SnO <sub>2</sub> nanostructures: Synthesis, characterization and HCHO sensing properties. <i>Materials Letters</i> , 2017, 191, 173-177.	2.6	35

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37	rGO-wrapped porous LaFeO <sub>3</sub> microspheres for high-performance triethylamine gas sensors. <i>Ceramics International</i> , 2020, 46, 9363-9369.	4.8	34
38	Enhanced acetone sensing performance of an $\text{In}_2\text{O}_3\text{-Fe}_2\text{O}_3$ heterostructure nanocomposite sensor. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 120, 261-270.	4.0	32
39	Controllable synthesis of novel ZnSn(OH) <sub>6</sub> hollow polyhedral structures with superior ethanol gas-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 384-390.	7.8	31
40	Enhanced triethylamine sensing performance of MoO <sub>3</sub> nanobelts by RuO <sub>2</sub> nanoparticles decoration. <i>Vacuum</i> , 2019, 162, 85-91.	3.5	31
41	Highly sensitive and selective trimethylamine sensors based on WO <sub>3</sub> nanorods decorated with Au nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 90, 109-115.	2.7	30
42	Reduced graphene oxide-porous In <sub>2</sub> O <sub>3</sub> nanocubes hybrid nanocomposites for room-temperature NH <sub>3</sub> sensing. <i>Chinese Chemical Letters</i> , 2020, 31, 2067-2070.	9.0	29
43	Ag nanoparticles-functionalized dumbbell-shaped In <sub>2</sub> O <sub>3</sub> derived from MIL-68(In) with excellent sensitivity to formaldehyde. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161509.	5.5	29
44	Cu <sub>2</sub> O template-assisted synthesis of porous In <sub>2</sub> O <sub>3</sub> hollow spheres with fast response towards acetone. <i>Materials Letters</i> , 2014, 124, 93-96.	2.6	25
45	Synthesis of reduced graphene oxide/SnO <sub>2</sub> nanosheets/Au nanoparticles ternary composites with enhanced formaldehyde sensing performance. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 118, 113953.	2.7	25
46	Cu-doped Fe <sub>2</sub> O <sub>3</sub> porous spindles derived from metal-organic frameworks with enhanced sensitivity to triethylamine. <i>Materials Science in Semiconductor Processing</i> , 2021, 123, 105510.	4.0	25
47	2D/2D SnO <sub>2</sub> nanosheets/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nanocomposites for detection of triethylamine at low temperature. <i>Ceramics International</i> , 2022, 48, 9059-9066.	4.8	24
48	Gas sensor based on rGO/ZnO aerogel for efficient detection of NO <sub>2</sub> at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10058-10069.	2.2	23
49	Novel strategy to construct porous Sn-doped ZnO/ZnFe <sub>2</sub> O <sub>4</sub> heterostructures for superior triethylamine detection. <i>Materials Science in Semiconductor Processing</i> , 2021, 125, 105643.	4.0	21
50	Metal-organic frameworks-derived porous $\text{In}_2\text{O}_3\text{-Fe}_2\text{O}_3$ spindles decorated with Au nanoparticles for enhanced triethylamine gas-sensing performance. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154788.	5.5	18
51	In <sub>2</sub> O <sub>3</sub> nanosheets array directly grown on Al <sub>2</sub> O <sub>3</sub> ceramic tube and their gas sensing performance. <i>Ceramics International</i> , 2017, 43, 7942-7947.	4.8	17
52	Synthesis of mesoporous In <sub>2</sub> O <sub>3</sub> nanocubes and their superior trimethylamine sensing properties. <i>Materials Science in Semiconductor Processing</i> , 2018, 75, 58-64.	4.0	17
53	Facile hydrothermal synthesis of mesoporous In <sub>2</sub> O <sub>3</sub> nanoparticles with superior formaldehyde-sensing properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 97, 38-44.	2.7	17
54	Hierarchical assembly of SnO <sub>2</sub> nanorod on spindle-like $\text{In}_2\text{O}_3\text{-Fe}_2\text{O}_3$ for enhanced acetone gas-sensing performance. <i>Ceramics International</i> , 2021, 47, 12181-12188.	4.8	16

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55	Synthesis of porous SnO <sub>2</sub> nanocubes via selective leaching and enhanced gas-sensing properties. <i>Applied Surface Science</i> , 2016, 360, 1059-1065.	6.1	15
56	Porous LaFeO <sub>3</sub> microspheres decorated with Au nanoparticles for superior formaldehyde gas-sensing performances. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4632-4641.	2.2	15
57	Three-dimensional reduced graphene oxide/cobaltic oxide as a high-response sensor for triethylamine gas at room temperature. <i>Materials Science in Semiconductor Processing</i> , 2021, 133, 105904.	4.0	15
58	Hydrothermal preparation and acetone-sensing properties of Ni-doped porous LaFeO <sub>3</sub> microspheres. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 6679-6689.	2.2	14
59	An ultrasensitive sandwich-type electrochemical immunosensor for carcino embryonie antigen based on supermolecular labeling strategy. <i>Journal of Electroanalytical Chemistry</i> , 2016, 781, 289-295.	3.8	12
60	Hierarchical assembly of Fe <sub>2</sub> O <sub>3</sub> nanorods on SnO <sub>2</sub> nanospheres with enhanced ethanol sensing properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 103, 156-163.	2.7	12
61	Template-free fabrication of hierarchical In <sub>2</sub> O <sub>3</sub> hollow microspheres with superior HCHO-sensing properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 99, 152-159.	2.7	11
62	Enhanced triethylamine gas sensing performance of the PbS nanoparticles-functionalized MoO <sub>3</sub> nanobelts. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2898-2907.	2.2	11
63	Highly sensitive and selective triethylamine gas sensor based on Ag nanoparticles-decorated MoO <sub>3</sub> nanobelts. <i>Materials Research Express</i> , 2019, 6, 125910.	1.6	10
64	Ce-doped hollow In <sub>2</sub> O <sub>3</sub> nanoboxes derived from metal-organic frameworks with excellent formaldehyde-sensing performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27290-27304.	2.2	10
65	Porous ZnO cubes derived from metal-organic frameworks with excellent sensing performance triethylamine. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 838-847.	2.2	9
66	Enhanced trimethylamine sensing properties of ternary rGO/MoO <sub>3</sub> /Au hybrid nanomaterials. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 20549-20560.	2.2	9
67	MOF-derived In <sub>2</sub> O <sub>3</sub> nanotubes/Cr <sub>2</sub> O <sub>3</sub> nanoparticles composites for superior ethanol gas-sensing performance at room temperature. <i>Ceramics International</i> , 2022, 48, 28334-28342.	4.8	9
68	Facile synthesis of Au-decorated $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /rGO ternary hybrid structure nanocomposites for enhanced triethylamine gas-sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 22713-22726.	2.2	8
69	MOF-derived In <sub>2</sub> O <sub>3</sub> microtubes as an effective sensing material for sub-ppm-level triethylamine detection. <i>Inorganic Chemistry Communication</i> , 2022, 140, 109455.	3.9	8
70	Metal-organic framework-derived In-doped Fe <sub>2</sub> O <sub>3</sub> spindles with enhanced acetone gas sensing performance. <i>Inorganic Chemistry Communication</i> , 2022, 142, 109658.	3.9	8
71	Reduced graphene oxide-SnO <sub>2</sub> nanosheets hybrid nanocomposite for improvement of formaldehyde sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12204-12214.	2.2	7
72	Enhanced trimethylamine gas-sensing performance of CeO <sub>2</sub> nanoparticles-decorated MoO <sub>3</sub> nanorods. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 3453-3464.	2.2	7

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73	Facile synthesis of CuO nanoribbons/rGO nanocomposites for high-performance formaldehyde gas sensor at low temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 19297-19308.	2.2	5
74	Ultra-fast responding C <sub>2</sub> H <sub>5</sub> OH sensors based on hierarchical assembly of SnO <sub>2</sub> nanorods on cube-like $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 5446-5453.	2.2	2
75	Ultra-low concentration detection of NH <sub>3</sub> using rGO/Cu <sub>2</sub> O nanocomposites at low temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 22617-22628.	2.2	1
76	Structural and Acetone Sensing Properties of La-Doped Porous In <sub>2</sub> O <sub>3</sub> Nanospheres by Hydrothermal Synthesis. <i>Advanced Materials Research</i> , 2014, 1053, 177-180.	0.3	0