

# Guang Sun

## List of Publications by Year in descending order

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59  
papers

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citations

159585

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docs citations

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1941  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ti <sub>3</sub> C <sub>2</sub> MXene-Based Sensors with High Selectivity for NH <sub>3</sub> Detection at Room Temperature. ACS Sensors, 2019, 4, 2763-2770.	7.8	355
2	Synthesis of porous nanosheets-assembled ZnO/ZnCo <sub>2</sub> O <sub>4</sub> hierarchical structure for TEA detection. Sensors and Actuators B: Chemical, 2019, 287, 199-208.	7.8	134
3	Synthesis and triethylamine sensing properties of mesoporous $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> microrods. Materials Letters, 2016, 178, 213-216.	2.6	90
4	Solid-State Method Synthesis of SnO <sub>2</sub> -Decorated g-C <sub>3</sub> N <sub>4</sub> Nanocomposites with Enhanced Gas-Sensing Property to Ethanol. Materials, 2017, 10, 604.	2.9	87
5	Enhanced CH <sub>4</sub> sensing properties of Pd modified ZnO nanosheets. Ceramics International, 2019, 45, 13150-13157.	4.8	77
6	Synthesis and improved gas sensing properties of NiO-decorated SnO <sub>2</sub> microflowers assembled with porous nanorods. Sensors and Actuators B: Chemical, 2016, 233, 180-192.	7.8	70
7	Synthesis of urchin-like In <sub>2</sub> O <sub>3</sub> hollow spheres for selective and quantitative detection of formaldehyde. Sensors and Actuators B: Chemical, 2019, 298, 126889.	7.8	69
8	Cocoon-like ZnO decorated graphitic carbon nitride nanocomposite: Hydrothermal synthesis and ethanol gas sensing application. Materials Letters, 2017, 198, 76-80.	2.6	68
9	Synthesis of g-C <sub>3</sub> N <sub>4</sub> nanosheet modified SnO <sub>2</sub> composites with improved performance for ethanol gas sensing. RSC Advances, 2017, 7, 25504-25511.	3.6	62
10	Facile synthesis of ZnFe <sub>2</sub> O <sub>4</sub> / $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> porous microrods with enhanced TEA-sensing performance. Journal of Alloys and Compounds, 2018, 737, 255-262.	5.5	62
11	Improving methane gas sensing performance of flower-like SnO <sub>2</sub> decorated by WO <sub>3</sub> nanoplates. Talanta, 2019, 199, 603-611.	5.5	59
12	TiO <sub>2</sub> /ZnCo <sub>2</sub> O <sub>4</sub> porous nanorods: Synthesis and temperature-dependent dual selectivity for sensing HCHO and TEA. Sensors and Actuators B: Chemical, 2020, 321, 128461.	7.8	59
13	Homogeneous precipitation method preparation of modified red mud supported Ni mesoporous catalysts for ammonia decomposition. Catalysis Science and Technology, 2014, 4, 361-368.	4.1	58
14	Synthesis and characterization of hierarchical porous SnO <sub>2</sub> for enhancing ethanol sensing properties. Applied Surface Science, 2016, 363, 560-565.	6.1	57
15	Carbon Nitride Decorated Ball-Flower like Co <sub>3</sub> O <sub>4</sub> Hybrid Composite: Hydrothermal Synthesis and Ethanol Gas Sensing Application. Nanomaterials, 2018, 8, 132.	4.1	55
16	Enhanced methane sensing properties of porous NiO nanosheets by decorating with SnO <sub>2</sub> . Sensors and Actuators B: Chemical, 2019, 288, 373-382.	7.8	55
17	Single-crystalline porous nanoplates-assembled ZnO hierarchical microstructure with superior TEA sensing properties. Sensors and Actuators B: Chemical, 2019, 290, 607-615.	7.8	55
18	Temperature-dependent dual selectivity of hierarchical porous In <sub>2</sub> O <sub>3</sub> nanospheres for sensing ethanol and TEA. Sensors and Actuators B: Chemical, 2021, 330, 129271.	7.8	55

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19	Synthesis of NiO-decorated ZnO porous nanosheets with improved CH <sub>4</sub> sensing performance. Applied Surface Science, 2019, 497, 143811.	6.1	53
20	Hydrothermal Synthesis of Co <sub>3</sub> O <sub>4</sub> /ZnO Hybrid Nanoparticles for Triethylamine Detection. Nanomaterials, 2019, 9, 1599.	4.1	47
21	Continuously improved gas-sensing performance of SnO <sub>2</sub> /Zn <sub>2</sub> SnO <sub>4</sub> porous cubes by structure evolution and further NiO decoration. Sensors and Actuators B: Chemical, 2018, 255, 2936-2943.	7.8	44
22	Enhanced CH <sub>4</sub> sensitivity of porous nanosheets-assembled ZnO microflower by decoration with Zn <sub>2</sub> SnO <sub>4</sub> . Sensors and Actuators B: Chemical, 2020, 304, 127374.	7.8	42
23	Synthesis of a Flower-Like g-C <sub>3</sub> N <sub>4</sub> /ZnO Hierarchical Structure with Improved CH <sub>4</sub> Sensing Properties. Nanomaterials, 2019, 9, 724.	4.1	41
24	Facile synthesis of Co <sub>3</sub> O <sub>4</sub> nanochains and their improved TEA sensing performance by decorating with Au nanoparticles. Journal of Alloys and Compounds, 2019, 776, 782-790.	5.5	40
25	Calcination Method Synthesis of SnO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> Composites for a High-Performance Ethanol Gas Sensing Application. Nanomaterials, 2017, 7, 98.	4.1	39
26	In situ decoration of Zn <sub>2</sub> SnO <sub>4</sub> nanoparticles on reduced graphene oxide for high performance ethanol sensor. Ceramics International, 2018, 44, 6836-6842.	4.8	38
27	Enhanced triethylamine gas sensing performance of the porous Zn <sub>2</sub> SnO <sub>4</sub> /SnO <sub>2</sub> hierarchical microspheres. Journal of Alloys and Compounds, 2019, 785, 382-390.	5.5	37
28	Synthesis of spindle-like Co-doped LaFeO <sub>3</sub> porous microstructure for high performance n-butanol sensor. Sensors and Actuators B: Chemical, 2021, 343, 130125.	7.8	37
29	Bi-doped urchin-like In <sub>2</sub> O <sub>3</sub> hollow spheres: Synthesis and improved gas sensing and visible-light photocatalytic properties. Sensors and Actuators B: Chemical, 2020, 321, 128623.	7.8	35
30	Synthesis and enhanced gas sensing properties of flower-like SnO <sub>2</sub> hierarchical structures decorated with discrete ZnO nanoparticles. Journal of Alloys and Compounds, 2014, 617, 192-199.	5.5	32
31	Improved TEA sensing performance of ZnCo <sub>2</sub> O <sub>4</sub> by structure evolution from porous nanorod to single-layer nanochain. Sensors and Actuators B: Chemical, 2018, 277, 544-554.	7.8	32
32	Enhanced Methane Sensing Properties of WO <sub>3</sub> Nanosheets with Dominant Exposed (200) Facet via Loading of SnO <sub>2</sub> Nanoparticles. Nanomaterials, 2019, 9, 351.	4.1	27
33	Synthesis and Enhanced Ethanol Gas Sensing Properties of the g-C <sub>3</sub> N <sub>4</sub> Nanosheets-Decorated Tin Oxide Flower-Like Nanorods Composite. Nanomaterials, 2017, 7, 285.	4.1	23
34	Boosting TEA sensing performance of ZnO porous hollow spheres via in situ construction of ZnS-ZnO heterojunction. Sensors and Actuators B: Chemical, 2022, 364, 131883.	7.8	23
35	Highly stable hole-conductor-free perovskite solar cells based upon ammonium chloride and a carbon electrode. Journal of Colloid and Interface Science, 2019, 540, 315-321.	9.4	22
36	Solvothermal synthesis and characterization of ultrathin SnO nanosheets. Materials Letters, 2014, 118, 69-71.	2.6	20

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37	Mesoporous CoFeO nanocatalysts: Preparation, characterization and catalytic carbon monoxide oxidation. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 477-483.	6.7	19
38	Synthesis and enhanced gas sensing properties of flower-like ZnO nanorods decorated with discrete CuO nanoparticles. <i>Materials Letters</i> , 2016, 176, 13-16.	2.6	19
39	One-step synthesis of Ag/SnO <sub>2</sub> /rGO nanocomposites and their trimethylamine sensing properties. <i>Materials Research Bulletin</i> , 2019, 114, 61-67.	5.2	19
40	Improved formaldehyde-sensing performance of SnO <sub>2</sub> /Zn <sub>2</sub> SnO <sub>4</sub> nanocomposites by structural evolution. <i>Materials Letters</i> , 2017, 191, 145-149.	2.6	18
41	Actinomorphic ZnO/SnO <sub>2</sub> core-shell nanorods: Two-step synthesis and enhanced ethanol sensing properties. <i>Materials Letters</i> , 2015, 160, 227-230.	2.6	17
42	Synthesis of g-C <sub>3</sub> N <sub>4</sub> -Decorated ZnO Porous Hollow Microspheres for Room-Temperature Detection of CH <sub>4</sub> under UV-Light Illumination. <i>Nanomaterials</i> , 2019, 9, 1507.	4.1	17
43	Hydrothermal synthesis of honeycomb-like SnO hierarchical microstructures assembled with nanosheets. <i>Materials Letters</i> , 2013, 98, 234-237.	2.6	15
44	Synthesis, characterization, and gas-sensing properties of Ag/SnO <sub>2</sub> /rGO composite by a hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 17049-17057.	2.2	15
45	Hydrothermally synthesized ZnO hierarchical structure for lower concentration methane sensing. <i>Materials Letters</i> , 2019, 254, 242-245.	2.6	14
46	Solvothermal synthesis and characterization of porous zinc hydroxystannate microspheres. <i>Materials Letters</i> , 2015, 150, 105-107.	2.6	13
47	Synthesis, characterization, and gas-sensing properties of monodispersed SnO <sub>2</sub> nanocubes. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	11
48	Facile Synthesis, Characterization, and Visible-light Photocatalytic Activities of 3D Hierarchical Bi <sub>2</sub> S <sub>3</sub> Architectures Assembled by Nanoplatelets. <i>Crystals</i> , 2016, 6, 140.	2.2	11
49	Construction of Zn <sub>2</sub> SnO <sub>4</sub> decorated ZnO nanoparticles for sensing triethylamine with dramatically enhanced performance. <i>Materials Science in Semiconductor Processing</i> , 2022, 140, 106403.	4.0	11
50	CuO/Ce x Sn <sup>1+</sup> O <sub>2</sub> catalysts: synthesis, characterization, and catalytic performance for low-temperature CO oxidation. <i>Transition Metal Chemistry</i> , 2011, 36, 107-112.	1.4	9
51	Hydrothermally synthesized porous ZnO nanosheets for methane sensing at lower temperature. <i>Journal of Porous Materials</i> , 2020, 27, 1363-1368.	2.6	7
52	Improved TEA Sensitivity and Selectivity of In <sub>2</sub> O <sub>3</sub> Porous Nanospheres by Modification with Ag Nanoparticles. <i>Nanomaterials</i> , 2022, 12, 1532.	4.1	7
53	Mesoporous CuO/ZrO <sub>2</sub> nanocatalysts: synthesis, characterization and low-temperature CO oxidation activities. <i>Journal of Porous Materials</i> , 2011, 18, 667-672.	2.6	5
54	High open circuit voltages of solar cells based on quantum dot and dye hybrid-sensitization. <i>Applied Physics Letters</i> , 2014, 104, 013901.	3.3	4

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55	Enhanced TEA sensing properties of nest-like ZnO by decoration with Au. Materials Research Express, 2019, 6, 105910.	1.6	4
56	Synthesis, Characterization and Gas Sensing Properties of Ag-doped $\text{Fe}_2\text{O}_3$ by Solid-state Grinding Method. Current Nanoscience, 2015, 11, 419-423.	1.2	3
57	Hydrothermal synthesis and visible-light photocatalytic activities of SnS <sub>2</sub> nanoflakes. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 276-281.	1.0	2
58	Synthesis, characterization and thermal stability of CeO <sub>2</sub> stabilized ZrO <sub>2</sub> ultra fine nanoparticles via a sol-gel route. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 1245-1249.	1.0	2
59	Synthesis and characterization of monodisperse hollow SnO <sub>2</sub> microspheres and their enhanced sensing properties to ethanol. Journal of Porous Materials, 2018, 25, 1099-1104.	2.6	2