

# Jing Wang

## List of Publications by Year in descending order

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52  
papers

3,638  
citations

126907

33  
h-index

175258

52  
g-index

52  
all docs

52  
docs citations

52  
times ranked

4539  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, properties and applications of ZnO nanomaterials with oxygen vacancies: A review. <i>Ceramics International</i> , 2018, 44, 7357-7377.	4.8	369
2	Oxygen defects-mediated Z-scheme charge separation in g-C <sub>3</sub> N <sub>4</sub> /ZnO photocatalysts for enhanced visible-light degradation of 4-chlorophenol and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 406-416.	20.2	333
3	Defect-rich ZnO nanosheets of high surface area as an efficient visible-light photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2016, 192, 8-16.	20.2	231
4	Confined Formation of Ultrathin ZnO Nanorods/Reduced Graphene Oxide Mesoporous Nanocomposites for High-Performance Room-Temperature NO <sub>2</sub> Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 35454-35463.	8.0	210
5	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> , 2016, 222, 864-870.	7.8	169
6	Room-temperature gas sensors based on ZnO nanorod/Au hybrids: Visible-light-modulated dual selectivity to NO <sub>2</sub> and NH <sub>3</sub> . <i>Journal of Hazardous Materials</i> , 2020, 381, 120919.	12.4	168
7	Reduced graphene oxide (rGO) decorated TiO <sub>2</sub> microspheres for selective room-temperature gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 330-336.	7.8	161
8	Hierarchical ZnO Nanosheet-Nanorod Architectures for Fabrication of Poly(3-hexylthiophene)/ZnO Hybrid NO <sub>2</sub> Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8600-8607.	8.0	106
9	Light-activated room-temperature gas sensors based on metal oxide nanostructures: A review on recent advances. <i>Ceramics International</i> , 2021, 47, 7353-7368.	4.8	103
10	Enhanced room temperature gas sensor based on Au-loaded mesoporous In <sub>2</sub> O <sub>3</sub> nanospheres@polyaniline core-shell nanohybrid assembled on flexible PET substrate for NH <sub>3</sub> detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 526-533.	7.8	95
11	A Review on the Fabrication of Hierarchical ZnO Nanostructures for Photocatalysis Application. <i>Crystals</i> , 2016, 6, 148.	2.2	91
12	3D Architected Graphene/Metal Oxide Hybrids for Gas Sensors: A Review. <i>Sensors</i> , 2018, 18, 1456.	3.8	83
13	Synergistic effects of UV activation and surface oxygen vacancies on the room-temperature NO <sub>2</sub> gas sensing performance of ZnO nanowires. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126858.	7.8	79
14	Effect of Mg <sup>2+</sup> on Hydrothermal Formation of $\text{CaSO}_4 \cdot 0.5\text{H}_2\text{O}$ Whiskers with High Aspect Ratios. <i>Langmuir</i> , 2014, 30, 9804-9810.	3.5	75
15	High-performance room temperature NO <sub>2</sub> gas sensor based on visible light irradiated In <sub>2</sub> O <sub>3</sub> nanowires. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159076.	5.5	74
16	Near infrared light enhanced room-temperature NO <sub>2</sub> gas sensing by hierarchical ZnO nanorods functionalized with PbS quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2538-2545.	7.8	73
17	Reduced graphene oxide/hierarchical flower-like zinc oxide hybrid films for room temperature formaldehyde detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1290-1298.	7.8	67
18	Influence of doping concentration on the properties of ZnO:Mn thin films by sol-gel method. <i>Vacuum</i> , 2007, 81, 894-898.	3.5	66

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19	Visible-light photocatalysis enhanced room-temperature formaldehyde gas sensing by MoS <sub>2</sub> /rGO hybrids. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127317.	7.8	65
20	Mesoporous ZnO nanosheets with rich surface oxygen vacancies for UV-activated methane gas sensing at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 333, 129547.	7.8	54
21	Sulfur-Vacancy-Enriched MoS <sub>2</sub> Nanosheets Based Heterostructures for Near-Infrared Optoelectronic NO <sub>2</sub> Sensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 665-673.	5.0	52
22	Synthesis of octahedral-like ZnO/ZnFe <sub>2</sub> O <sub>4</sub> heterojunction photocatalysts with superior photocatalytic activity. <i>Solid State Sciences</i> , 2019, 96, 105901.	3.2	49
23	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303001.	1.8	49
24	Defects-Induced Room Temperature Ferromagnetism in ZnO Nanorods Grown from μ-Zn(OH) <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2014, 118, 19469-19476.	3.1	47
25	A room-temperature methane sensor based on Pd-decorated ZnO/rGO hybrids enhanced by visible light photocatalysis. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127334.	7.8	47
26	Unraveling photoexcited electron transfer pathway of oxygen vacancy-enriched ZnO/Pd hybrid toward visible light-enhanced methane detection at a relatively low temperature. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118554.	20.2	45
27	Highly Sensitive and Fast Optoelectronic Room-Temperature NO <sub>2</sub> Gas Sensor Based on ZnO Nanorod-Assembled Macro-/Mesoporous Film. <i>ACS Applied Electronic Materials</i> , 2020, 2, 580-589.	4.3	44
28	Facile synthesis of mesoporous ZnO sheets assembled by small nanoparticles for enhanced NO <sub>2</sub> sensing performance at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 207-215.	7.8	42
29	Reduced graphene oxide/MoS <sub>2</sub> hybrid films for room-temperature formaldehyde detection. <i>Materials Letters</i> , 2017, 189, 42-45.	2.6	41
30	Mesoporous MXene/ZnO nanorod hybrids of high surface area for UV-activated NO <sub>2</sub> gas sensing in ppb-level. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131087.	7.8	40
31	Montmorillonite and alginate co-stabilized biocompatible Pickering emulsions with multiple-stimulus tunable rheology. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 529-539.	9.4	39
32	Ultra-rapid formation of ZnO hierarchical structures from dilution-induced supersaturated solutions. <i>CrystEngComm</i> , 2014, 16, 7115-7123.	2.6	36
33	Facile synthesis of orthorhombic LiMnO <sub>2</sub> nanorods by in-situ carbothermal reduction: Promising cathode material for Li ion batteries. <i>Ceramics International</i> , 2017, 43, 10585-10589.	4.8	35
34	Cost-effective large-scale synthesis of oxygen-defective ZnO photocatalyst with superior activities under UV and visible light. <i>Ceramics International</i> , 2017, 43, 1870-1879.	4.8	35
35	MXene/WS <sub>2</sub> hybrids for visible-light-activated NO <sub>2</sub> sensing at room temperature. <i>Chemical Communications</i> , 2021, 57, 9136-9139.	4.1	34
36	Ti <sub>2</sub> CTx MXene: A novel p-type sensing material for visible light-enhanced room temperature methane detection. <i>Ceramics International</i> , 2021, 47, 34437-34442.	4.8	33

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37	On-chip grown ZnO nanosheet-array with interconnected nanojunction interfaces for enhanced optoelectronic NO <sub>2</sub> gas sensing at room temperature. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 19-28.	9.4	30
38	Nanorod-pillared mesoporous rGO/ZnO/Au hybrids for photocatalytic Cr (VI) reduction: Enhanced Cr(VI) adsorption and solar energy harvest. <i>Ceramics International</i> , 2020, 46, 1487-1493.	4.8	29
39	UV-activated WS <sub>2</sub> /SnO <sub>2</sub> 2D/0D heterostructures for fast and reversible NO <sub>2</sub> gas sensing at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2022, 364, 131903.	7.8	29
40	Colloidal TiO <sub>2</sub> nanoparticles with near-neutral wettability: An efficient Pickering emulsifier. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 570, 224-232.	4.7	26
41	Emulsions stabilized by highly hydrophilic TiO <sub>2</sub> nanoparticles via van der Waals attraction. <i>Journal of Colloid and Interface Science</i> , 2021, 589, 378-387.	9.4	26
42	Nanoseed-assisted rapid formation of ultrathin ZnO nanorods for efficient room temperature NO <sub>2</sub> detection. <i>Ceramics International</i> , 2016, 42, 15876-15880.	4.8	25
43	Highly sensitive, fast and reversible NO <sub>2</sub> sensors at room-temperature utilizing nonplasmonic electrons of ZnO/Pd hybrids. <i>Ceramics International</i> , 2020, 46, 8462-8468.	4.8	25
44	Visible-light-driven photocatalytic reduction of Cr(VI) on magnetite/carboxylate-rich carbon sheets. <i>New Journal of Chemistry</i> , 2017, 41, 12596-12603.	2.8	22
45	UV-enhanced NO <sub>2</sub> gas sensing properties of polystyrene sulfonate functionalized ZnO nanowires at room temperature. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 176-183.	6.0	22
46	Designed synthesis of ZnO/Pd@ZIF-8 hybrid structure for highly sensitive and selective detection of methane in the presence of NO <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130220.	7.8	22
47	Design and characterization of starch/solid lipids hybrid microcapsules and their thermal stability with menthol. <i>Food Hydrocolloids</i> , 2021, 116, 106631.	10.7	13
48	Enhanced Cycling Stability through Erbium Doping of LiMn <sub>2</sub> O <sub>4</sub> Cathode Material Synthesized by Sol-Gel Technique. <i>Materials</i> , 2018, 11, 1558.	2.9	11
49	High ethanol tolerance of oil-in-water Pickering emulsions stabilized by protein nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 632, 127777.	4.7	7
50	Effects of Cationic Polyacrylamide on Hydrothermal Formation of Ultralong $\text{CaSO}_4 \cdot 0.5\text{H}_2\text{O}$ Whiskers. <i>Crystal Research and Technology</i> , 2019, 54, 1800224.	1.3	4
51	Visible Light-Induced Room-Temperature Formaldehyde Gas Sensor Based on Porous Three-Dimensional ZnO Nanorod Clusters with Rich Oxygen Vacancies. <i>ACS Omega</i> , 2022, 7, 22861-22871.	3.5	4
52	In/Fe Cospinning Nanowires for Triethylamine Gas Sensing. <i>ACS Applied Nano Materials</i> , 2022, 5, 9554-9566.	5.0	3