

Ziying Wang

List of Publications by Year in descending order

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29
papers

1,257
citations

430874

18
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501196

28
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all docs

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docs citations

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times ranked

1616
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction of ZnO/SnO ₂ Heterostructure on Reduced Graphene Oxide for Enhanced Nitrogen Dioxide Sensitive Performances at Room Temperature. ACS Sensors, 2019, 4, 2048-2057.	7.8	142
2	Preparation of Ag nanoparticles-SnO ₂ nanoparticles-reduced graphene oxide hybrids and their application for detection of NO ₂ at room temperature. Sensors and Actuators B: Chemical, 2016, 222, 893-903.	7.8	122
3	Oxygen vacancy engineering for enhanced sensing performances: A case of SnO ₂ nanoparticles-reduced graphene oxide hybrids for ultrasensitive ppb-level room-temperature NO ₂ sensing. Sensors and Actuators B: Chemical, 2018, 266, 812-822.	7.8	109
4	Investigation of Microstructure Effect on NO ₂ Sensors Based on SnO ₂ Nanoparticles/Reduced Graphene Oxide Hybrids. ACS Applied Materials & Interfaces, 2018, 10, 41773-41783.	8.0	100
5	High-performance reduced graphene oxide-based room-temperature NO ₂ sensors: A combined surface modification of SnO ₂ nanoparticles and nitrogen doping approach. Sensors and Actuators B: Chemical, 2017, 242, 269-279.	7.8	99
6	Synthesis of core-shell $\text{Fe}_2\text{O}_3/\text{NiO}$ nanofibers with hollow structures and their enhanced HCHO sensing properties. Journal of Materials Chemistry A, 2015, 3, 5635-5641.	10.3	83
7	Study on highly selective sensing behavior of ppb-level oxidizing gas sensors based on Zn ₂ SnO ₄ nanoparticles immobilized on reduced graphene oxide under humidity conditions. Sensors and Actuators B: Chemical, 2019, 285, 590-600.	7.8	70
8	Anchoring ultrafine Pd nanoparticles and SnO ₂ nanoparticles on reduced graphene oxide for high-performance room temperature NO ₂ sensing. Journal of Colloid and Interface Science, 2018, 514, 599-608.	9.4	60
9	Core-shell Co ₃ O ₄ /Fe ₂ O ₃ heterostructure nanofibers with enhanced gas sensing properties. RSC Advances, 2015, 5, 36340-36346.	3.6	51
10	Preparation of zinc oxide nanoparticle-reduced graphene oxide-gold nanoparticle hybrids for detection of NO ₂ . RSC Advances, 2015, 5, 91760-91765.	3.6	49
11	High surface area mesoporous CuO: a high-performance electrocatalyst for non-enzymatic glucose biosensing. RSC Advances, 2014, 4, 33327-33331.	3.6	44
12	Synthesis of Ag nanoparticle-carbon nanotube-reduced graphene oxide hybrids for highly sensitive non-enzymatic hydrogen peroxide detection. RSC Advances, 2015, 5, 39037-39041.	3.6	41
13	Electrodeposition synthesis of reduced graphene oxide-carbon nanotube hybrids on indium tin oxide electrode for simultaneous electrochemical detection of ascorbic acid, dopamine and uric acid. RSC Advances, 2015, 5, 106307-106314.	3.6	37
14	Recent Advances in Natural Functional Biopolymers and Their Applications of Electronic Skins and Flexible Strain Sensors. Polymers, 2021, 13, 813.	4.5	37
15	Electrostatic sprayed Cr-loaded NiO core-in-hollow-shell structured micro/nanospheres with ultra-selectivity and sensitivity for xylene. CrystEngComm, 2014, 16, 7731.	2.6	33
16	Flexible, non-contact and multifunctional humidity sensors based on two-dimensional phytic acid doped co-metal organic frameworks nanosheets. Journal of Colloid and Interface Science, 2022, 607, 2010-2018.	9.4	32
17	Surface microstructure-controlled ZrO ₂ for highly sensitive room-temperature NO ₂ sensors. Nano Materials Science, 2021, 3, 268-275.	8.8	31
18	Porous Co ₃ O ₄ nanocrystals derived by metal-organic frameworks on reduced graphene oxide for efficient room-temperature NO ₂ sensing properties. Journal of Alloys and Compounds, 2021, 856, 158199.	5.5	30

#	ARTICLE	IF	CITATIONS
19	Studies on QCM-type NO ₂ gas sensor based on graphene composites at room temperature. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 924-928.	2.6	13
20	An Energy Harvester Coupled with a Triboelectric Mechanism and Electrostatic Mechanism for Biomechanical Energy Harvesting. <i>Nanomaterials</i> , 2022, 12, 933.	4.1	13
21	Biomass-derived Nitrogen and Phosphorus Co-doped Hierarchical Micro/mesoporous Carbon Materials for High-performance Non-enzymatic H ₂ O ₂ Sensing. <i>Electroanalysis</i> , 2019, 31, 527-534.	2.9	12
22	Mesoporous Magnesium Oxide Nanosheet Electrocatalysts for the Detection of Lead(II). <i>ACS Applied Nano Materials</i> , 2019, 2, 2606-2611.	5.0	11
23	Light-Assisted Enhancement of Gas Sensing Property for Micro-Nanostructure Electronic Device: A Mini Review. <i>Frontiers in Chemistry</i> , 2021, 9, 811074.	3.6	9
24	Solvent-free synthesis of mesoporous carbon employing KIT-6 as hard template for removal of aqueous rhodamine B. <i>Journal of Porous Materials</i> , 2019, 26, 941-950.	2.6	8
25	Confined nanospace pyrolysis for synthesis of N-doped few-layer graphene-supported yolk-shell carbon hollow spheres for electrochemical sensing. <i>RSC Advances</i> , 2015, 5, 37568-37573.	3.6	6
26	Wearable Multifunctional Graphene-Based Aerogel/Spacer Fabric Composites for Sensing and Impact Protection. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	6
27	Shape-controlled synthesis of Ag/Cs ₄ PbBr ₆ Janus nanoparticles. <i>Nanotechnology</i> , 2021, 32, 075601.	2.6	4
28	Oxygen Plasma-Assisted Defect Engineering of Graphene Nanocomposites with Ultrasmall Co ₃ O ₄ Nanocrystals for Monitoring Toxic Nitrogen Dioxide at Room Temperature. <i>Langmuir</i> , 0, .	3.5	3
29	Rational design of Ag nanocubes-reduced graphene oxide nanocomposites for high-performance non-enzymatic H ₂ O ₂ sensing. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 946-950.	2.6	2