

Tianshuang Wang

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,228
citations

471509

17
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

1243
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas sensor based on cobalt-doped 3D inverse opal SnO ₂ for air quality monitoring. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130807.	7.8	40
2	Ultra-fast and low detection limit of H ₂ S sensor based on hydrothermal synthesized Cu ₇ S ₄ -CuO microflowers. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130847.	7.8	21
3	Microwave gas sensor for detection of ammonia at room-temperature. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130854.	7.8	24
4	Highly sensitive and selective xylene sensor based on p-p heterojunctions composites derived from off-stoichiometric cobalt tungstate. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130973.	7.8	26
5	Revealing the correlation between gas selectivity and semiconductor energy band structure derived from off-stoichiometric spinel CdGa ₂ O ₄ . <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131039.	7.8	8
6	Understanding the Increasing Trend of Sensor Signal with Decreasing Oxygen Partial Pressure by a Sensing-Reaction Model Based on O ^{2•-} Species. <i>ACS Sensors</i> , 2022, 7, 1095-1104.	7.8	7
7	All-Nanofiber Network Structure for Ultrasensitive Piezoresistive Pressure Sensors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19949-19957.	8.0	35
8	General analysis method for the signal enhancement of microwave gas sensor through variation of energy loss. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132117.	7.8	5
9	MOF-Derived Mesoporous and Hierarchical Hollow-Structured In ₂ O ₃ -NiO Composites for Enhanced Triethylamine Sensing. <i>ACS Sensors</i> , 2021, 6, 3451-3461.	7.8	72
10	Unexpected and enhanced electrostatic adsorption capacity of oxygen vacancy-rich cobalt-doped In ₂ O ₃ for high-sensitive MEMS toluene sensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 342, 129949.	7.8	26
11	Role of Sb and Co Doping in SnO ₂ Sensing Properties toward Ethanol. <i>Proceedings (mdpi)</i> , 2019, 14, 12.	0.2	0
12	Realizing the Control of Fermi Level and Gas-Sensing Selectivity over Gallium-Doped In ₂ O ₃ Inverse Opal Microspheres. <i>Proceedings (mdpi)</i> , 2019, 14, 15.	0.2	0
13	Fluorescent hydrogel test kit coordination with smartphone: Robust performance for on-site dimethoate analysis. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111706.	10.1	35
14	Realizing the Control of Electronic Energy Level Structure and Gas-Sensing Selectivity over Heteroatom-Doped In ₂ O ₃ Spheres with an Inverse Opal Microstructure. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9600-9611.	8.0	76
15	One step synthesis of branched SnO ₂ /ZnO heterostructures and their enhanced gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 415-423.	7.8	185
16	Self-Assembly Template Driven 3D Inverse Opal Microspheres Functionalized with Catalyst Nanoparticles Enabling a Highly Efficient Chemical Sensing Platform. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5835-5844.	8.0	67
17	Rational design of 3D inverse opal heterogeneous composite microspheres as excellent visible-light-induced NO ₂ sensors at room temperature. <i>Nanoscale</i> , 2018, 10, 4841-4851.	5.6	63
18	Novel Self-Assembly Route Assisted Ultra-Fast Trace Volatile Organic Compounds Gas Sensing Based on Three-Dimensional Opal Microspheres Composites for Diabetes Diagnosis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32913-32921.	8.0	40

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19	3D inverse opal nanostructured multilayer films of two-component heterostructure composites: A new-generation synthetic route and potential application as high-performance acetone detector. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 262-270.	7.8	30
20	Nanosheet-assembled NiO microspheres modified by Sn ²⁺ ions isovalent interstitial doping for xylene gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 210-222.	7.8	64
21	Flower-like ZnO hollow microspheres loaded with CdO nanoparticles as high performance sensing material for gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 692-702.	7.8	84
22	Enhanced Gas Sensing Properties of SnO ₂ Hollow Spheres Decorated with CeO ₂ Nanoparticles Heterostructure Composite Materials. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6669-6677.	8.0	271
23	Design of Fe ²⁺ -Fe ₂ O ₃ nanorods functionalized tubular NiO nanostructure for discriminating toluene molecules. <i>Scientific Reports</i> , 2016, 6, 26432.	3.3	49