

Octahedral SnO₂/Graphene Composites with Performance at Room Temperature

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Constructing one dimensional Co ₃ O ₄ hierarchical nanofibers as efficient sensing materials for rapid acetone gas detection. Journal of Alloys and Compounds, 2019, 799, 513-520.	2.8	35
2	Degradation of 4-nitrophenol by electrocatalysis and advanced oxidation processes using Co ₃ O ₄ @C anode coupled with simultaneous CO ₂ reduction via SnO ₂ /CC cathode. Chinese Chemical Letters, 2020, 31, 1961-1965.	4.8	118
4	Hollow Pentagonal-Cone-Structured SnO ₂ Architectures Assembled with Nanorod Arrays for Low-Temperature Ethanol Sensing. ACS Applied Nano Materials, 2020, 3, 7720-7731.	2.4	25
5	Protonic Titanate Nanotube-Reduced Graphene Oxide Composites for Hydrogen Sensing. ACS Applied Nano Materials, 2020, 3, 10082-10093.	2.4	17
6	Robust, stretchable and photothermal self-healing polyurethane elastomer based on furan-modified polydopamine nanoparticles. Polymer, 2020, 190, 122219.	1.8	45
7	Unraveling the promoted nitrogen dioxide detection performance of N-doped SnO ₂ microspheres at low temperature. Journal of Alloys and Compounds, 2020, 834, 155209.	2.8	21
8	Cauliflower-shaped Bi ₂ O ₃ -ZnO heterojunction with superior sensing performance towards ethanol. Journal of Alloys and Compounds, 2021, 854, 157152.	2.8	76
9	Hydrothermally derived n-MoS ₂ -ZnO from p-MoS ₂ -ZIF-8 for an efficient detection of NO ₂ at room temperature. Journal of Materials Chemistry A, 2021, 9, 14722-14730.	5.2	44
10	SnO ₂ nanoparticles/reduced graphene oxide nanocomposite for fast ethanol vapor sensing at a low operating temperature with an excellent long-term stability. Journal of Materials Science: Materials in Electronics, 2021, 32, 6550-6569.	1.1	13
11	Chemical Surface Adsorption and Trace Detection of Alcohol Gas in Graphene Oxide-Based Acid-Etched SnO ₂ Aerogels. ACS Applied Materials & Interfaces, 2021, 13, 20467-20478.	4.0	29
12	Rational construction and triethylamine sensing performance of foam shaped γ -MoO ₃ @SnS ₂ nanosheets. Chinese Chemical Letters, 2022, 33, 567-572.	4.8	32
13	Nitrogen-doped graphene quantum dots-modified mesoporous SnO ₂ hierarchical hollow cubes for low temperature detection of nitrogen dioxide. Sensors and Actuators B: Chemical, 2021, 339, 129882.	4.0	32
14	Layered SnO ₂ nanorods arrays anchored on reduced graphene oxide for ultra-high and ppb level formaldehyde sensing. Sensors and Actuators B: Chemical, 2021, 346, 130452.	4.0	19
15	NO ₂ detection and redox capacitance reaction of Ag doped SnO ₂ /rGO aerogel at room temperature. Journal of Alloys and Compounds, 2021, 886, 161287.	2.8	13
16	Recent Progress in Graphene Derivatives/Metal Oxides Binary Nanocomposites Based Chemi-resistive Sensors for Disease Diagnosis by Breath Analysis. Current Analytical Chemistry, 2022, 18, 563-576.	0.6	13
17	A femtosecond laser-assembled SnO ₂ microbridge on interdigitated Au electrodes for gas sensing. Materials Letters, 2021, 308, 131120.	1.3	6
18	High Surface Area ZnO/rGO Aerogel for Sensitive and Selective NO ₂ Detection at Room Temperature. SSRN Electronic Journal, 0, , .	0.4	0
19	Enhanced ppb-level formaldehyde sensing performance over Pt deposited SnO ₂ nanospheres. Journal of Alloys and Compounds, 2022, 899, 163230.	2.8	16

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20	Boosting room-temperature ppb-level NO ₂ sensing over reduced graphene oxide by co-decoration of Fe ₂ O ₃ and SnO ₂ nanocrystals. Journal of Colloid and Interface Science, 2022, 612, 689-700.	5.0	29
21	Activating and modifying the basal planes of MoS ₂ for superior NO ₂ sensing at room temperature. Sensors and Actuators B: Chemical, 2022, 359, 131539.	4.0	15
22	Recent advances in ethanol gas sensors based on metal oxide semiconductor heterojunctions. Rare Metals, 2022, 41, 1818-1842.	3.6	71
23	Enhanced Gas Sensing Performance of rGO Wrapped Crystal Facet-Controlled Co ₃ O ₄ Nanocomposite Heterostructures. Journal of Physical Chemistry C, 2022, 126, 4879-4888.	1.5	9
24	Metal oxide gas sensors for detecting NO ₂ in industrial exhaust gas: Recent developments. Sensors and Actuators B: Chemical, 2022, 359, 131579.	4.0	96
25	High surface area ZnO/rGO aerogel for sensitive and selective NO ₂ detection at room temperature. Journal of Alloys and Compounds, 2022, 908, 164567.	2.8	12
26	Enhanced room-temperature NO ₂ sensing performance of SnO ₂ /Ti ₃ C ₂ composite with double heterojunctions by controlling co-exposed {221} and {110} facets of SnO ₂ . Sensors and Actuators B: Chemical, 2022, 365, 131919.	4.0	19
27	High energy facets and oxygen vacancies guided hierarchical tin dioxide microcubes assembled by cross-stacked nanoslices for ethanol gas-sensing. Journal of Alloys and Compounds, 2022, 911, 164973.	2.8	1
28	Crystal facet effect of tin dioxide nanocrystals on photocatalytic degradation and photo-assisted gas sensing properties. CrystEngComm, 2022, 24, 3865-3871.	1.3	6
29	MoO ₃ Nanorods Decorated by PbMoO ₄ Nanoparticles for Enhanced Trimethylamine Sensing Performances at Low Working Temperature. ACS Applied Materials & Interfaces, 2022, 14, 24610-24619.	4.0	15
30	Light-assisted room temperature gas sensing performance and mechanism of direct Z-scheme MoS ₂ /SnO ₂ crystal faceted heterojunctions. Journal of Hazardous Materials, 2022, 436, 129246.	6.5	13
31	SnO ₂ Nanostructures Exposed with Various Crystal Facets for Temperature-Modulated Sensing of Volatile Organic Compounds. ACS Applied Nano Materials, 2022, 5, 10636-10644.	2.4	12
32	In ₂ S ₃ -Gr and In ₂ S ₃ -CNT nanocomposite thin films as gas sensors. Diamond and Related Materials, 2022, 128, 109215.	1.8	3
33	Nano-Optomechanical Resonators Based Graphene/Au Membrane for Current Sensing. Journal of Lightwave Technology, 2022, , 1-8.	2.7	4
34	An ultrasensitive electrochemical DNA biosensor based on the highly conductive Nd ³⁺ /Sb-co-doped SnO ₂ @Pt nanocomposite for the rapid detection of HIV-DNA. Journal of Materials Research, 0, , .	1.2	0
35	Molecular adsorption behavior and photoelectric properties of SnO ₂ (221) crystal plane. Sensors and Actuators B: Chemical, 2023, 374, 132753.	4.0	4
36	Highly sensitive NO ₂ gas sensor with a low detection limit based on Pt-modified MoS ₂ flakes. Materials Letters, 2023, 330, 133386.	1.3	7
37	ZnO/Ti ₃ C ₂ composite with oxygen vacancies and Schottky barrier for effective detection of ppb-level NO ₂ at room temperature. Applied Surface Science, 2023, 610, 155440.	3.1	14

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38	Enhancing the thermoelectric power factor of nanostructured SnO ₂ via Bi substitution. <i>Ceramics International</i> , 2023, 49, 10360-10364.	2.3	6
39	Conversion of MoS ₂ to ternary alloyed MoS ₂ for resistive NO ₂ sensors. <i>Sensors and Actuators B: Chemical</i> , 2023, 378, 133137.	4.0	5
40	Synergistic adsorption effect on Co ₃ O ₄ (1 1 0) surface to promote the ethanol sensing properties: Experiment and theory. <i>Applied Surface Science</i> , 2023, 612, 155776.	3.1	8
41	Advances in Materials and Technologies for Gas Sensing from Environmental and Food Monitoring to Breath Analysis. <i>Advanced Sustainable Systems</i> , 2023, 7, .	2.7	10
42	High-Performance Ppb Level NO ₂ Gas Sensor Based on Colloidal SnO ₂ Quantum Wires/Ti ₃ C ₂ T _x MXene Composite. <i>Nanomaterials</i> , 2022, 12, 4464.	1.9	4
43	SnO ₂ Nanoparticle-Reduced Graphene Oxide Hybrids for Highly Selective and Sensitive NO ₂ Sensors Fabricated Using a Component Combinatorial Approach. <i>ACS Applied Nano Materials</i> , 2022, 5, 19053-19061.	2.4	4
44	Novel approaches towards design of metal oxide based hetero-structures for room temperature gas sensor and its sensing mechanism: A recent progress. <i>Journal of Alloys and Compounds</i> , 2023, 941, 168943.	2.8	23
45	Crystal facets-controlled NiO/SnO ₂ p-n heterostructures with engineered surface and interface towards triethylamine sensing. <i>Journal of Alloys and Compounds</i> , 2023, 947, 169503.	2.8	3
46	1D 2D and 3D anatase TiO ₂ sensitized with BNQDs for sensitive acetone detection. <i>Surfaces and Interfaces</i> , 2023, 38, 102847.	1.5	1
47	Boosted Light-Excited NO ₂ Detection Based on Hierarchical Z-Scheme MoS ₂ /SnO ₂ Heterostructure Microspheres at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2023, 127, 4063-4071.	1.5	2
48	Silane coupling agent γ -aminopropyltriethoxysilane-modified nanoparticles/polyurethane elastomer nanocomposites. <i>Iranian Polymer Journal (English Edition)</i> , 2023, 32, 715-727.	1.3	2