

Near Room Temperature Light-Activated WS₂-Decorated

Sensors

19, 2617

DOI: [10.3390/s19112617](https://doi.org/10.3390/s19112617)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Recent progress on gas sensors based on graphene-like 2D/2D nanocomposites. Journal of Semiconductors, 2019, 40, 111608.	2.0	29
2	Vertically aligned carbon nanotubes, MoS ₂ /rGO based optoelectronic hybrids for NO ₂ gas sensing. Scientific Reports, 2020, 10, 11306.	1.6	33
3	Room-Temperature Gas Sensors Under Photoactivation: From Metal Oxides to 2D Materials. Nano-Micro Letters, 2020, 12, 164.	14.4	201
4	Low-Power, Large-Area and High-Performance CdSe Quantum Dots/Reduced Graphene Oxide Photodetectors. IEEE Access, 2020, 8, 95855-95863.	2.6	8
5	Depositing reduced graphene oxide onto tungsten disulfide nanosheets <i>via</i> microwave irradiation: confirmation of four-electron transfer-assisted oxygen reduction and methanol oxidation reaction. New Journal of Chemistry, 2020, 44, 10638-10647.	1.4	22
6	Applications of Graphene-Based Materials in Sensors. Sensors, 2020, 20, 3196.	2.1	38
7	Light-activated gas sensing: a perspective of integration with micro-LEDs and plasmonic nanoparticles. Materials Advances, 2021, 2, 827-844.	2.6	46
8	Substantially improved room temperature NO ₂ sensing in 2-dimensional SnS ₂ nanoflowers enabled by visible light illumination. Journal of Materials Chemistry A, 2021, 9, 11168-11178.	5.2	75
9	Flexible fabric gas sensors based on reduced graphene-polyaniline nanocomposite for highly sensitive NH ₃ detection at room temperature. Nanotechnology, 2021, 32, 305501.	1.3	36
10	Conformal Self-Assembly of Nanospheres for Light-Enhanced Airtightness Monitoring and Room-Temperature Gas Sensing. Nanomaterials, 2021, 11, 1829.	1.9	0
11	Liquid phase exfoliated WS ₂ nanosheet-based gas sensor for room temperature NO ₂ detection. Journal of Materials Science: Materials in Electronics, 2022, 33, 9235-9245.	1.1	19
12	Tuning the Gas Sensing Properties of rGO with In ₂ O ₃ Nanoparticles. Surfaces, 2022, 5, 127-142.	1.0	5
13	Room-temperature light-activated chemical sensors for gas monitoring and applications: a review. Journal Physics D: Applied Physics, 2022, 55, 213001.	1.3	3
14	Au@ZnO/rGO nanocomposite-based ultra-low detection limit highly sensitive and selective NO ₂ gas sensor. Journal of Materials Chemistry C, 2022, 10, 4295-4305.	2.7	30
15	Light-activated gas sensors. Chinese Science Bulletin, 2022, 67, 1837-1850.	0.4	1
16	In ₂ O ₃ Based Hybrid Materials: Interplay between Microstructure, Photoelectrical and Light Activated NO ₂ Sensor Properties. Chemosensors, 2022, 10, 135.	1.8	6
17	Gas sensing devices based on two-dimensional materials: a review. Nanotechnology, 2022, 33, 252001.	1.3	36
18	2D Palladium Sulphate for Visible-Light-Driven Optoelectronic Reversible Gas Sensing at Room Temperature. Small Science, 2022, 2, .	5.8	21

#	ARTICLE	IF	CITATIONS
19	UV-activated WS ₂ /SnO ₂ 2D/0D heterostructures for fast and reversible NO ₂ gas sensing at room temperature. Sensors and Actuators B: Chemical, 2022, 364, 131903.	4.0	29
20	2h-MoS ₂ /Ti ₃ C ₂ Tx MXene Composites for Enhanced NO ₂ Gas Sensing Properties at Room Temperature. SSRN Electronic Journal, 0, , .	0.4	0
21	2H-MoS ₂ /Ti ₃ C ₂ Tx MXene composites for enhanced NO ₂ gas sensing properties at room temperature. Sensors and Actuators Reports, 2022, 4, 100103.	2.3	11
22	Bidimensional Engineered Amorphous <i>a</i> -SnO ₂ Interfaces: Synthesis and Gas Sensing Response to H ₂ S and Humidity. ACS Sensors, 2022, 7, 2058-2068.	4.0	10
23	Heterobimetallic Ru(II)/M (M = Ag ⁺ , Cu ²⁺ , Pb ²⁺) Complexes as Photosensitizers for Room-Temperature Gas Sensing. Molecules, 2022, 27, 5058.	1.7	2
24	Near-room-temperature operating ammonia sensors fabricated using hydrothermally in situ synthesized WS ₂ /rGO nanocomposites. European Physical Journal Plus, 2022, 137, .	1.2	7
25	An overview on room-temperature chemiresistor gas sensors based on 2D materials: Research status and challenge. Composites Part B: Engineering, 2023, 248, 110378.	5.9	21
26	Tuning the electrocatalytic performances of Ni-MOF with combined tungsten compounds (WO _{3-x} /WS _{2-x}) decorated rGO by interface coupling for efficient water oxidation. FlatChem, 2023, 37, 100458.	2.8	2
27	Triple Oleylamine Capped WS ₂ Sensor Array for Room Temperature Discrimination of Chemical Vapours. , 2022, , .		1
28	WS ₂ Nanosheet Loaded Silicon-Oxycarbide Electrode for Sodium and Potassium Batteries. Nanomaterials, 2022, 12, 4185.	1.9	2
29	Highly Selective Room Temperature Detection of NH ₃ and NO _x Using Oxygen-Deficient W ₁₈ O ₄₉ -Supported WS ₂ Heterojunctions. ACS Applied Materials & Interfaces, 2023, 15, 4703-4712.	4.0	5
35	Ex-Situ Formed PANI/WS ₂ Composite for Improved Selectivity Towards Ammonia Gas. , 2023, , .		0
36	Strategic review of gas sensing enhancement ways of 2D tungsten disulfide/selenide-based chemiresistive sensors: decoration and composite. Journal of Materials Chemistry A, 2024, 12, 3771-3806.	5.2	1