Myung Sik Choi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microwave-Assisted Synthesis of Graphene–SnO ₂ Nanocomposites and Their Applications in Gas Sensors. ACS Applied Materials & Interfaces, 2017, 9, 31667-31682.	8.0	149
2	Synthesis of zinc oxide semiconductors-graphene nanocomposites by microwave irradiation for application to gas sensors. Sensors and Actuators B: Chemical, 2017, 249, 590-601.	7.8	142
3	Selective, sensitive, and stable NO2 gas sensor based on porous ZnO nanosheets. Applied Surface Science, 2021, 568, 150910.	6.1	94
4	Synthesis, characterization and gas sensing properties of ZnO-decorated MWCNTs. Applied Surface Science, 2017, 413, 242-252.	6.1	86
5	Attachment of Co3O4 layer to SnO2 nanowires for enhanced gas sensing properties. Sensors and Actuators B: Chemical, 2017, 239, 180-192.	7.8	76
6	Selective NO2 sensor based on Bi2O3 branched SnO2 nanowires. Sensors and Actuators B: Chemical, 2018, 274, 356-369.	7.8	75
7	Porous Si/SnO2 nanowires heterostructures for H2S gas sensing. Ceramics International, 2020, 46, 604-611.	4.8	61
8	Enhancement of gas sensing properties by the functionalization of ZnO-branched SnO2 nanowires with Cr2O3 nanoparticles. Sensors and Actuators B: Chemical, 2017, 249, 656-666.	7.8	56
9	Promotional effects of ZnO-branching and Au-functionalization on the surface of SnO2 nanowires for NO2 sensing. Journal of Alloys and Compounds, 2019, 786, 27-39.	5.5	56
10	Fabrication and gas sensing properties of vertically aligned Si nanowires. Applied Surface Science, 2018, 427, 215-226.	6.1	41
11	Decoration of multi-walled carbon nanotubes with CuO/Cu2O nanoparticles for selective sensing of H2S gas. Sensors and Actuators B: Chemical, 2021, 344, 130176.	7.8	41
12	Enhancement of the benzene-sensing performance of Si nanowires through the incorporation of TeO2 heterointerfaces and Pd-sensitization. Sensors and Actuators B: Chemical, 2017, 244, 1085-1097.	7.8	35
13	Selective H2S-sensing performance of Si nanowires through the formation of ZnO shells with Au functionalization. Sensors and Actuators B: Chemical, 2019, 289, 1-14.	7.8	35
14	Facile and fast decoration of SnO2 nanowires with Pd embedded SnO2-x nanoparticles for selective NO2 gas sensing. Sensors and Actuators B: Chemical, 2021, 340, 129984.	7.8	35
15	SnO2 nanowires decorated by insulating amorphous carbon layers for improved room-temperature NO2 sensing. Sensors and Actuators B: Chemical, 2021, 326, 128801.	7.8	32
16	Effect of microwave irradiation on the electrical and optical properties of SnO2 thin films. Ceramics International, 2019, 45, 7723-7729.	4.8	27
17	Room-temperature NO2 sensor based on electrochemically etched porous silicon. Journal of Alloys and Compounds, 2019, 811, 151975.	5.5	26
18	Exploration of the use of p-TeO2-branch/n-SnO2 core nanowires nanocomposites for gas sensing. Applied Surface Science, 2019, 484, 1102-1110.	6.1	26

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19	Dual sensitization of MWCNTs by co-decoration with p- and n-type metal oxide nanoparticles. Sensors and Actuators B: Chemical, 2018, 264, 150-163.	7.8	23
20	Porous Si nanowires for highly selective room-temperature NO ₂ gas sensing. Nanotechnology, 2018, 29, 294001.	2.6	23
21	Exploration of ZrO2-shelled nanowires for chemiresistive detection of NO2 gas. Sensors and Actuators B: Chemical, 2020, 319, 128309.	7.8	23
22	Sonochemical synthesis of PEDOT:PSS intercalated ammonium vanadate nanofiber composite for room-temperature NH3 sensing. Sensors and Actuators B: Chemical, 2021, 327, 128924.	7.8	22
23	Changes in characteristics of Pt-functionalized RGO nanocomposites by electron beam irradiation for room temperature NO2 sensing. Ceramics International, 2020, 46, 21638-21646.	4.8	19
24	Improvement of NO2 Sensing Properties in Pd Functionalized Reduced Graphene Oxides by Electron-Beam Irradiation. Frontiers in Materials, 2019, 6, .	2.4	18
25	Changes in the crystal structure of SnO2 nanoparticles and improved H2S gas-sensing characteristics by Al doping. Applied Surface Science, 2021, 565, 150493.	6.1	18
26	Synthesis, Characterization and Gas-Sensing Properties of Pristine and SnS2 Functionalized TeO2 Nanowires. Metals and Materials International, 2019, 25, 805-813.	3.4	15
27	SnS-functionalized SnO2 nanowires for low-temperature detection of NO2 gas. Materials Characterization, 2021, 175, 110986.	4.4	15
28	Hybridization of silicon nanowires with TeO2 branch structures and Pt nanoparticles for highly sensitive and selective toluene sensing. Applied Surface Science, 2020, 525, 146620.	6.1	14
29	Low-Temperature H ₂ S Sensors Based on Si-Coated SnO ₂ Nanowires. Journal of Korean Institute of Metals and Materials, 2019, 57, 732-740.	1.0	6
30	Surprising synthesis of nanodiamond from single-walled carbon nanotubes by the spark plasma sintering process. Electronic Materials Letters, 2016, 12, 747-752.	2.2	4
31	Modification of SnO2 Nanowires with TeO2 Branches and Their Enhanced Gas Sensing. Proceedings (mdpi), 2017, 1, 404.	0.2	3
32	Fast Semiconductor–Metal Bidirectional Transition by Flame Chemical Vapor Deposition. ACS Omega, 2019, 4, 11824-11831.	3.5	3
33	New type of doping effect via metallization of surface reduction in SnO2. Scientific Reports, 2019, 9, 8129.	3.3	3
34	Incorporation of Pt Nanoparticles on the Surface of TeO ₂ -Branched Porous Si Nanowire Structures for Enhanced Room-Temperature Gas Sensing. Journal of Nanoscience and Nanotechnology, 2019, 19, 6647-6655.	0.9	3
35	Interface treatment using amorphous-carbon and its applications. Scientific Reports, 2020, 10, 4093.	3.3	3
36	Synthesis of Au/SnO2 nanostructures allowing process variable control. Scientific Reports, 2020, 10, 346.	3.3	2

#	Article	IF	CITATIONS
37	Molecular group system as one energy unit. Ceramics International, 2019, 45, 9858-9865.	4.8	1