Myung Sik Choi

List of Publications by Year
in descending order

37 papers	1,311 citations	331670 21 h-index	345221 36 g-index
37 all docs	37 docs citations	37 times ranked	1339 citing authors

#	Article	IF	Citations
1	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
2	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
3	SnS-functionalized SnO2 nanowires for low-temperature detection of NO2 gas. Materials Characterization, 2021, 175, 110986.	4.4	15
4	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
5	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
6	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
7	Selective, sensitive, and stable NO2 gas sensor based on porous ZnO nanosheets. Applied Surface Science, 2021, 568, 150910.	6.1	94
8	Porous Si/SnO2 nanowires heterostructures for H2S gas sensing. Ceramics International, 2020, 46, 604-611.	4.8	61
9	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
10	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
11	Interface treatment using amorphous-carbon and its applications. Scientific Reports, 2020, 10, 4093.	3.3	3
12	Synthesis of Au/SnO2 nanostructures allowing process variable control. Scientific Reports, 2020, 10, 346.	3.3	2
13	Exploration of ZrO2-shelled nanowires for chemiresistive detection of NO2 gas. Sensors and Actuators B: Chemical, 2020, 319, 128309.	7.8	23
14	Improvement of NO2 Sensing Properties in Pd Functionalized Reduced Graphene Oxides by Electron-Beam Irradiation. Frontiers in Materials, 2019, 6, .	2.4	18
15	Fast Semiconductorâ€"Metal Bidirectional Transition by Flame Chemical Vapor Deposition. ACS Omega, 2019, 4, 11824-11831.	3.5	3
16	New type of doping effect via metallization of surface reduction in SnO2. Scientific Reports, 2019, 9, 8129.	3.3	3
17	Room-temperature NO2 sensor based on electrochemically etched porous silicon. Journal of Alloys and Compounds, 2019, 811, 151975.	5.5	26
18	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

#	Article	IF	Citations
19	Incorporation of Pt Nanoparticles on the Surface of TeO₂-Branched Porous Si Nanowire Structures for Enhanced Room-Temperature Gas Sensing. Journal of Nanoscience and Nanotechnology, 2019, 19, 6647-6655.	0.9	3
20	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
21	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
22	Molecular group system as one energy unit. Ceramics International, 2019, 45, 9858-9865.	4.8	1
23	Effect of microwave irradiation on the electrical and optical properties of SnO2 thin films. Ceramics International, 2019, 45, 7723-7729.	4.8	27
24	Synthesis, Characterization and Gas-Sensing Properties of Pristine and SnS2 Functionalized TeO2 Nanowires. Metals and Materials International, 2019, 25, 805-813.	3.4	15
25	Low-Temperature H₂S Sensors Based on Si-Coated SnO₂ Nanowires. Journal of Korean Institute of Metals and Materials, 2019, 57, 732-740.	1.0	6
26	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
27	Porous Si nanowires for highly selective room-temperature NO₂ gas sensing. Nanotechnology, 2018, 29, 294001.	2.6	23
28	Fabrication and gas sensing properties of vertically aligned Si nanowires. Applied Surface Science, 2018, 427, 215-226.	6.1	41
29	Selective NO2 sensor based on Bi2O3 branched SnO2 nanowires. Sensors and Actuators B: Chemical, 2018, 274, 356-369.	7.8	75
30	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
31	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
32	Synthesis, characterization and gas sensing properties of ZnO-decorated MWCNTs. Applied Surface Science, 2017, 413, 242-252.	6.1	86
33	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
34	Microwave-Assisted Synthesis of Grapheneâ€“SnO₂ Nanocomposites and Their Applications in Gas Sensors. ACS Applied Materials & Interfaces, 2017, 9, 31667-31682.	8.0	149
35	Attachment of Co3O4 layer to SnO2 nanowires for enhanced gas sensing properties. Sensors and Actuators B: Chemical, 2017, 239, 180-192.	7.8	76
36	Modification of SnO2 Nanowires with TeO2 Branches and Their Enhanced Gas Sensing. Proceedings (mdpi), 2017, 1, 404.	0.2	3

#	Article	IF	Citations
37	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