

Yong Jung Kwon

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,863
citations

279798

23
h-index

395702

33
g-index

33
all docs

33
docs citations

33
times ranked

2629
citing authors

#	ARTICLE	IF	CITATIONS
1	Significant enhancement of blue emission and electrical conductivity of N-doped graphene. <i>Journal of Materials Chemistry</i> , 2012, 22, 17992.	6.7	182
2	Microwave-Assisted Synthesis of Graphene-SnO ₂ Nanocomposites and Their Applications in Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31667-31682.	8.0	149
3	Bifunctional Sensing Mechanism of SnO ₂ -ZnO Composite Nanofibers for Drastically Enhancing the Sensing Behavior in H ₂ Gas. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11351-11358.	8.0	143
4	Synthesis of zinc oxide semiconductors-graphene nanocomposites by microwave irradiation for application to gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 590-601.	7.8	142
5	Excellent gas detection of ZnO nanofibers by loading with reduced graphene oxide nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1499-1507.	7.8	112
6	Selective Improvement of NO ₂ Gas Sensing Behavior in SnO ₂ Nanowires by Ion-Beam Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13646-13658.	8.0	110
7	Comparison study of structural and optical properties of boron-doped and undoped graphene oxide films. <i>Chemical Engineering Journal</i> , 2012, 211-212, 369-377.	12.7	89
8	Synthesis, characterization and gas sensing properties of ZnO-decorated MWCNTs. <i>Applied Surface Science</i> , 2017, 413, 242-252.	6.1	86
9	Selective detection of low concentration toluene gas using Pt-decorated carbon nanotubes sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 157-168.	7.8	82
10	Influence of N-doping on the structural and photoluminescence properties of graphene oxide films. <i>Carbon</i> , 2012, 50, 3799-3806.	10.3	79
11	Attachment of Co ₃ O ₄ layer to SnO ₂ nanowires for enhanced gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 180-192.	7.8	76
12	Selective NO ₂ sensor based on Bi ₂ O ₃ branched SnO ₂ nanowires. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 356-369.	7.8	75
13	Enhancement of gas sensing properties by the functionalization of ZnO-branched SnO ₂ nanowires with Cr ₂ O ₃ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 656-666.	7.8	56
14	Direct production of highly conductive graphene with a low oxygen content by a microwave-assisted solvothermal method. <i>Chemical Engineering Journal</i> , 2013, 232, 346-355.	12.7	46
15	Decoration of Co nanoparticles on ZnO-branched SnO ₂ nanowires to enhance gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2015, 219, 22-29.	7.8	42
16	Fabrication and gas sensing properties of vertically aligned Si nanowires. <i>Applied Surface Science</i> , 2018, 427, 215-226.	6.1	41
17	Improvement of gas sensing behavior in reduced graphene oxides by electron-beam irradiation. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 143-149.	7.8	35
18	Selective H ₂ S-sensing performance of Si nanowires through the formation of ZnO shells with Au functionalization. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 1-14.	7.8	35

#	ARTICLE	IF	CITATIONS
19	Proton-beam engineered surface-point defects for highly sensitive and reliable NO ₂ sensing under humid environments. <i>Journal of Hazardous Materials</i> , 2021, 416, 125841.	12.4	34
20	Laser-engineered oxygen vacancies for improving the NO ₂ sensing performance of SnO ₂ nanowires. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27205-27211.	10.3	33
21	Freeze-drying-induced changes in the properties of graphene oxides. <i>Nanotechnology</i> , 2014, 25, 235601.	2.6	30
22	Two-dimensional semiconducting covalent organic nanosheets for highly sensitive and stable NO ₂ sensing under humid conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19246-19253.	10.3	29
23	Synergistic approach to simultaneously improve response and humidity-independence of metal-oxide gas sensors. <i>Journal of Hazardous Materials</i> , 2022, 424, 127524.	12.4	28
24	Dual sensitization of MWCNTs by co-decoration with p- and n-type metal oxide nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 150-163.	7.8	23
25	Porous Si nanowires for highly selective room-temperature NO ₂ gas sensing. <i>Nanotechnology</i> , 2018, 29, 294001.	2.6	23
26	Converting the Conducting Behavior of Graphene Oxides from n-Type to p-Type via Electron-Beam Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7324-7333.	8.0	18
27	ALD-assisted synthesis of V ₂ O ₅ nanoislands on SnO ₂ nanowires for improving NO ₂ sensing performance. <i>Applied Surface Science</i> , 2020, 509, 144821.	6.1	18
28	ZnO-SnO ₂ branched stem nanowires based on a two-step process: Synthesis and sensing capability. <i>Current Applied Physics</i> , 2013, 13, 526-532.	2.4	15
29	Synthesis and room-temperature NO ₂ sensing properties of Sb ₂ O ₅ nanowires. <i>Metals and Materials International</i> , 2015, 21, 415-421.	3.4	13
30	Two-Dimensional calcium silicate nanosheets for trapping atmospheric water molecules in humidity-immune gas sensors. <i>Journal of Hazardous Materials</i> , 2022, 432, 128671.	12.4	7
31	Improvement of Gas Sensing Characteristics by Adding Pt Nanoparticles on ZnO-Branched SnO ₂ Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 8571-8576.	0.9	6
32	Surprising synthesis of nanodiamond from single-walled carbon nanotubes by the spark plasma sintering process. <i>Electronic Materials Letters</i> , 2016, 12, 747-752.	2.2	4
33	Catalyst and substrate-free synthesis of graphene nanosheets by unzipping C ₆₀ fullerene clusters using a pulse current method. <i>Materials Science in Semiconductor Processing</i> , 2022, 149, 106831.	4.0	2