

Ji-Wook Yoon

List of Publications by Year in descending order

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44
papers

2,974
citations

159358

30
h-index

243296

44
g-index

46
all docs

46
docs citations

46
times ranked

3037
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive and sensitive detection of xylene and toluene for monitoring indoor air pollution using Cr-doped NiO hierarchical nanostructures. <i>Nanoscale</i> , 2013, 5, 7066.	2.8	225
2	A New Strategy for Humidity Independent Oxide Chemiresistors: Dynamic Self-Refreshing of In ₂ O ₃ Sensing Surface Assisted by Layer-by-Layer Coated CeO ₂ Nanoclusters. <i>Small</i> , 2016, 12, 4229-4240.	5.2	195
3	Design of highly sensitive and selective Au@NiO yolk-shell nanoreactors for gas sensor applications. <i>Nanoscale</i> , 2014, 6, 8292-8299.	2.8	174
4	Toward breath analysis on a chip for disease diagnosis using semiconductor-based chemiresistors: recent progress and future perspectives. <i>Lab on A Chip</i> , 2017, 17, 3537-3557.	3.1	162
5	Honeycomb-like Periodic Porous LaFeO ₃ Thin Film Chemiresistors with Enhanced Gas-Sensing Performances. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16217-16226.	4.0	149
6	Design of a highly sensitive and selective C ₂ H ₅ OH sensor using p-type Co ₃ O ₄ nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 570-577.	4.0	141
7	Ultrasensitive and ultrasensitive detection of H ₂ S using electrospun CuO-loaded In ₂ O ₃ nanofiber sensors assisted by pulse heating. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 934-942.	4.0	123
8	Highly Selective Xylene Sensor Based on NiO/NiMoO ₄ Nanocomposite Hierarchical Spheres for Indoor Air Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34603-34611.	4.0	122
9	Ultra-selective detection of sub-ppm-level benzene using Pd@SnO ₂ yolk-shell micro-reactors with a catalytic Co ₃ O ₄ overlayer for monitoring air quality. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1446-1454.	5.2	111
10	Role of Pd nanoparticles in gas sensing behaviour of Pd@In ₂ O ₃ yolk-shell nanoreactors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 264-269.	5.2	109
11	Dual Role of Multiroom-Structured Sn-Doped NiO Microspheres for Ultrasensitive and Highly Selective Detection of Xylene. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16605-16612.	4.0	96
12	One-Pot Synthesis of Pd-Loaded SnO ₂ Yolk-Shell Nanostructures for Ultrasensitive Methyl Benzene Sensors. <i>Chemistry - A European Journal</i> , 2014, 20, 2737-2741.	1.7	93
13	Exclusive and ultrasensitive detection of formaldehyde at room temperature using a flexible and monolithic chemiresistive sensor. <i>Nature Communications</i> , 2021, 12, 4955.	5.8	84
14	Electronic sensitization of the response to C ₂ H ₅ OH of p-type NiO nanofibers by Fe doping. <i>Nanotechnology</i> , 2013, 24, 444005.	1.3	81
15	Extremely sensitive ethanol sensor using Pt-doped SnO ₂ hollow nanospheres prepared by Kirkendall diffusion. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 353-360.	4.0	80
16	Highly sensitive and selective detection of ppb-level NO ₂ using multi-shelled WO ₃ yolk-shell spheres. <i>Sensors and Actuators B: Chemical</i> , 2016, 229, 561-569.	4.0	80
17	Gas sensing characteristics of p-type Cr ₂ O ₃ and Co ₃ O ₄ nanofibers depending on inter-particle connectivity. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 263-271.	4.0	77
18	Trimodally porous SnO ₂ nanospheres with three-dimensional interconnectivity and size tunability: a one-pot synthetic route and potential application as an extremely sensitive ethanol detector. <i>NPG Asia Materials</i> , 2016, 8, e244-e244.	3.8	77

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19	Cr-doped Co ₃ O ₄ nanorods as chemiresistor for ultrasensitive monitoring of methyl benzene. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 482-489.	4.0	72
20	Visible light assisted NO ₂ sensing at room temperature by CdS nanoflake array. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2963-2970.	4.0	69
21	Å New Concept for Obtaining SnO ₂ Fiberâ€™Tube Nanostructures with Superior Electrochemical Properties. <i>Chemistry - A European Journal</i> , 2015, 21, 371-376.	1.7	61
22	High performance chemiresistive H ₂ S sensors using Ag-loaded SnO ₂ yolkâ€™shell nanostructures. <i>RSC Advances</i> , 2014, 4, 16067-16074.	1.7	58
23	Kilogram-Scale Synthesis of Pd-Loaded Quintuple-Shelled Co ₃ O ₄ Microreactors and Their Application to Ultrasensitive and Ultrasensitive Detection of Methylbenzenes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7717-7723.	4.0	56
24	Pure and Palladiumâ€™Loaded Co ₃ O ₄ Hollow Hierarchical Nanostructures with Giant and Ultrasensitive Chemiresistivity to Xylene and Toluene. <i>Chemistry - A European Journal</i> , 2015, 21, 5872-5878.	1.7	52
25	Molybdenum trioxide nanopaper as a dual gas sensor for detecting trimethylamine and hydrogen sulfide. <i>RSC Advances</i> , 2017, 7, 3680-3685.	1.7	52
26	A strategy for ultrasensitive and selective detection of methylamine using p-type Cr ₂ O ₃ : Morphological design of sensing materials, control of charge carrier concentrations, and configurational tuning of Au catalysts. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 1049-1057.	4.0	52
27	General Strategy for Designing Highly Selective Gas-Sensing Nanoreactors: Morphological Control of SnO ₂ Hollow Spheres and Configurational Tuning of Au Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51607-51615.	4.0	42
28	Impedance spectroscopic analysis on effects of partial oxidation of TiN bottom electrode and microstructure of amorphous and crystalline HfO ₂ thin films on their bipolar resistive switching. <i>Nanoscale</i> , 2014, 6, 6668-6678.	2.8	37
29	A Transparent Nanopatterned Chemiresistor: Visibleâ€™Light Plasmonic Sensor for Traceâ€™Level NO ₂ Detection at Room Temperature. <i>Small</i> , 2021, 17, e2100438.	5.2	33
30	Hollow spheres of CoCr ₂ O ₄ â€™Cr ₂ O ₃ mixed oxides with nanoscale heterojunctions for exclusive detection of indoor xylene. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10767-10774.	2.7	31
31	Metal oxide patterns of one-dimensional nanofibers: on-demand, direct-write fabrication, and application as a novel platform for gas detection. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24919-24928.	5.2	28
32	Highly selective, sensitive, and rapidly responding acetone sensor using ferroelectric Îµ-WO ₃ spheres doped with Nb for monitoring ketogenic diet efficiency. <i>Sensors and Actuators B: Chemical</i> , 2021, 338, 129823.	4.0	28
33	Superhigh sensing response and selectivity for hydrogen gas using PdPt@ZnO core-shell nanoparticles: Unique effect of alloyed ingredient from experimental and theoretical investigations. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131083.	4.0	24
34	Selective dual detection of hydrogen sulfide and methyl mercaptan using CuO/CuFe ₂ O ₄ nanopattern chemiresistors. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130665.	4.0	20
35	Extremely selective detection of ppb levels of indoor xylene using CoCr ₂ O ₄ hollow spheres activated by Pt doping. <i>Chemical Communications</i> , 2019, 55, 751-754.	2.2	18
36	Rapid synthesis of rhombohedral In ₂ O ₃ nanoparticles via a microwave-assisted hydrothermal pathway and their application for conductometric ethanol sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130578.	4.0	15

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37	Core and dopant effects toward hydrogen gas sensing activity using Pd@N-CeO ₂ core-shell nanoflatforms. Journal of Industrial and Engineering Chemistry, 2021, 95, 325-332.	2.9	13
38	Highly Selective and Sensitive Detection of Breath Isoprene by Tailored Gas Reforming: A Synergistic Combination of Macroporous WO ₃ Spheres and Au Catalysts. ACS Applied Materials & Interfaces, 2022, 14, 11587-11596.	4.0	9
39	A Volatile Organic Compound Sensor Using Porous Co ₃ O ₄ Spheres. Journal of the Korean Ceramic Society, 2016, 53, 134-138.	1.1	7
40	Facile and rapid fabrication of porous CuBr films by solution oxidation and their application for the exclusive detection of NH ₃ at room temperature. Journal of Materials Chemistry A, 2022, 10, 950-959.	5.2	7
41	Selective NO ₂ Sensors Using MoS ₂ -MoO ₃ Composite Yolk-shell Spheres. Journal of Sensor Science and Technology, 2015, 24, 151-154.	0.1	3
42	Trimethylamine Sensing Characteristics of Molybdenum doped ZnO Hollow Nanofibers Prepared by Electrospinning. Journal of Sensor Science and Technology, 2015, 24, 419-422.	0.1	3
43	Highly Sensitive Trimethylamine Sensing Characteristics of V-doped NiO Porous Structures. Journal of Sensor Science and Technology, 2016, 25, 218-222.	0.1	0
44	NH ₃ sensing properties of porous CuBr films prepared by spin-coating. Journal of Sensor Science and Technology, 2021, 30, 451-455.	0.1	0