

Seong-Yong Jeong

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,369
citations

430754

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713332

21
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23
docs citations

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times ranked

1207
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational Design of Semiconductor-Based Chemiresistors and their Libraries for Next-Generation Artificial Olfaction. <i>Advanced Materials</i> , 2020, 32, e2002075.	11.1	215
2	Co ₃ O ₄ @SnO ₂ Hollow Heteronanostructures: Facile Control of Gas Selectivity by Compositional Tuning of Sensing Materials via Galvanic Replacement. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7877-7883.	4.0	148
3	Humidity-Independent Oxide Semiconductor Chemiresistors Using Terbium-Doped SnO ₂ Yolk-Shell Spheres for Real-Time Breath Analysis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18886-18894.	4.0	119
4	Humidity-Independent Gas Sensors Using Pr-Doped In ₂ O ₃ Macroporous Spheres: Role of Cyclic Pr ³⁺ /Pr ⁴⁺ Redox Reactions in Suppression of Water-Poisoning Effect. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25322-25329.	4.0	113
5	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
6	Dual-mode gas sensor for ultrasensitive and highly selective detection of xylene and toluene using Nb-doped NiO hollow spheres. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127140.	4.0	84
7	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
8	Metal Oxide Gas Sensors with Au Nanocluster Catalytic Overlayer: Toward Tuning Gas Selectivity and Response Using a Novel Bilayer Sensor Design. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32169-32177.	4.0	83
9	Highly Selective Detection of Benzene and Discrimination of Volatile Aromatic Compounds Using Oxide Chemiresistors with Tunable Rh@TiO ₂ Catalytic Overlayers. <i>Advanced Science</i> , 2021, 8, 2004078.	5.6	56
10	A New Strategy for Detecting Plant Hormone Ethylene Using Oxide Semiconductor Chemiresistors: Exceptional Gas Selectivity and Response Tailored by Nanoscale Cr ₂ O ₃ Catalytic Overlayer. <i>Advanced Science</i> , 2020, 7, 1903093.	5.6	49
11	Monolayer Co ₃ O ₄ Inverse Opals as Multifunctional Sensors for Volatile Organic Compounds. <i>Chemistry - A European Journal</i> , 2016, 22, 7102-7107.	1.7	42
12	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
13	Highly Sensitive and Selective PbTiO ₃ Gas Sensors with Negligible Humidity Interference in Ambient Atmosphere. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5240-5246.	4.0	40
14	Gas Selectivity Control in Co ₃ O ₄ Sensor via Concurrent Tuning of Gas Reforming and Gas Filtering using Nanoscale Hetero-Overlayer of Catalytic Oxides. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41397-41404.	4.0	39
15	A General Solution to Mitigate Water Poisoning of Oxide Chemiresistors: Bilayer Sensors with Tb ₄ O ₇ Overlayer. <i>Advanced Functional Materials</i> , 2021, 31, 2007895.	7.8	33
16	Methylbenzene sensors using Ti-doped NiO multiroom spheres: Versatile tunability on selectivity, response, sensitivity, and detection limit. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127730.	4.0	28
17	Heterostructure between WO ₃ and metal organic framework-derived BiVO ₄ nanoleaves for enhanced photoelectrochemical performances. <i>Chemical Engineering Journal</i> , 2021, 425, 131496.	6.6	27
18	Designing oxide chemiresistors for detecting volatile aromatic compounds: recent progresses and future perspectives. <i>Chemical Communications</i> , 2022, 58, 5439-5454.	2.2	26

#	ARTICLE	IF	CITATIONS
19	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
20	Highly Selective and Sensitive Detection of Breath Isoprene by Tailored Gas Reforming: A Synergistic Combination of Macroporous WO ₃ Spheres and Au Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11587-11596.	4.0	9