

# Seong-Yong Jeong

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5517101/publications.pdf>

Version: 2024-02-01

20  
papers

1,369  
citations

430754

18  
h-index

713332

21  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1207  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Selective and Sensitive Detection of Breath Isoprene by Tailored Gas Reforming: A Synergistic Combination of Macroporous WO <sub>3</sub> Spheres and Au Catalysts. ACS Applied Materials & Interfaces, 2022, 14, 11587-11596.	4.0	9
2	Designing oxide chemiresistors for detecting volatile aromatic compounds: recent progresses and future perspectives. Chemical Communications, 2022, 58, 5439-5454.	2.2	26
3	A General Solution to Mitigate Water Poisoning of Oxide Chemiresistors: Bilayer Sensors with Tb <sub>4</sub> O <sub>7</sub> Overlayer. Advanced Functional Materials, 2021, 31, 2007895.	7.8	33
4	Highly Selective Detection of Benzene and Discrimination of Volatile Aromatic Compounds Using Oxide Chemiresistors with Tunable Rh-TiO <sub>2</sub> Catalytic Overlayers. Advanced Science, 2021, 8, 2004078.	5.6	56
5	Exclusive and ultrasensitive detection of formaldehyde at room temperature using a flexible and monolithic chemiresistive sensor. Nature Communications, 2021, 12, 4955.	5.8	84
6	Selective dual detection of hydrogen sulfide and methyl mercaptan using CuO/CuFe <sub>2</sub> O <sub>4</sub> nanopattern chemiresistors. Sensors and Actuators B: Chemical, 2021, 348, 130665.	4.0	20
7	Heterostructure between WO <sub>3</sub> and metal organic framework-derived BiVO <sub>4</sub> nanoleaves for enhanced photoelectrochemical performances. Chemical Engineering Journal, 2021, 425, 131496.	6.6	27
8	Rational Design of Semiconductor-Based Chemiresistors and their Libraries for Next-Generation Artificial Olfaction. Advanced Materials, 2020, 32, e2002075.	11.1	215
9	General Strategy for Designing Highly Selective Gas-Sensing Nanoreactors: Morphological Control of SnO <sub>2</sub> Hollow Spheres and Configurational Tuning of Au Catalysts. ACS Applied Materials & Interfaces, 2020, 12, 51607-51615.	4.0	42
10	A New Strategy for Detecting Plant Hormone Ethylene Using Oxide Semiconductor Chemiresistors: Exceptional Gas Selectivity and Response Tailored by Nanoscale Cr <sub>2</sub> O <sub>3</sub> Catalytic Overlayer. Advanced Science, 2020, 7, 1903093.	5.6	49
11	Methylbenzene sensors using Ti-doped NiO multiroom spheres: Versatile tunability on selectivity, response, sensitivity, and detection limit. Sensors and Actuators B: Chemical, 2020, 308, 127730.	4.0	28
12	Metal Oxide Gas Sensors with Au Nanocluster Catalytic Overlayer: Toward Tuning Gas Selectivity and Response Using a Novel Bilayer Sensor Design. ACS Applied Materials & Interfaces, 2019, 11, 32169-32177.	4.0	83
13	Humidity-Independent Gas Sensors Using Pr-Doped In <sub>2</sub> O <sub>3</sub> Macroporous Spheres: Role of Cyclic Pr <sup>3+</sup> /Pr <sup>4+</sup> Redox Reactions in Suppression of Water-Poisoning Effect. ACS Applied Materials & Interfaces, 2019, 11, 25322-25329.	4.0	113
14	Dual-mode gas sensor for ultrasensitive and highly selective detection of xylene and toluene using Nb-doped NiO hollow spheres. Sensors and Actuators B: Chemical, 2019, 301, 127140.	4.0	84
15	Highly Sensitive and Selective PbTiO <sub>3</sub> Gas Sensors with Negligible Humidity Interference in Ambient Atmosphere. ACS Applied Materials & Interfaces, 2019, 11, 5240-5246.	4.0	40
16	Humidity-Independent Oxide Semiconductor Chemiresistors Using Terbium-Doped SnO <sub>2</sub> Yolk-Shell Spheres for Real-Time Breath Analysis. ACS Applied Materials & Interfaces, 2018, 10, 18886-18894.	4.0	119
17	Ultra-selective detection of sub-ppm-level benzene using Pd-SnO <sub>2</sub> yolk-shell micro-reactors with a catalytic Co <sub>3</sub> O <sub>4</sub> overlayer for monitoring air quality. Journal of Materials Chemistry A, 2017, 5, 1446-1454.	5.2	111
18	Gas Selectivity Control in Co <sub>3</sub> O <sub>4</sub> Sensor via Concurrent Tuning of Gas Reforming and Gas Filtering using Nanoscale Hetero-Overlayer of Catalytic Oxides. ACS Applied Materials & Interfaces, 2017, 9, 41397-41404.	4.0	39

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19	Monolayer $\text{Co}_3\text{O}_4$ Inverse Opals as Multifunctional Sensors for Volatile Organic Compounds. <i>Chemistry - A European Journal</i> , 2016, 22, 7102-7107.	1.7	42
20	$\text{Co}_3\text{O}_4$ – $\text{SnO}_2$ Hollow Heteronanostructures: Facile Control of Gas Selectivity by Compositional Tuning of Sensing Materials via Galvanic Replacement. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 7877-7883.	4.0	148