

Ji-Soo Jang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

3,522
citations

35
h-index

58
g-index

88
ext. papers

4,489
ext. citations

12.7
avg, IF

5.94
L-index

#	Paper	IF	Citations
80	Flash-thermochemical engineering of phase and surface activity on metal oxides. <i>Chem</i> , 2022 ,	16.2	2
79	Oxide/ZIF-8 Hybrid Nanofiber Yarns: Heightened Surface Activity for Exceptional Chemiresistive Sensing.. <i>Advanced Materials</i> , 2022 , e2105869	24	2
78	Thermal shock-stabilized metal catalysts on oxide hemitubes: Toward ultrasensitive chemiresistors. <i>Applied Surface Science</i> , 2022 , 595, 153460	6.7	0
77	Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection (Adv. Mater. 44/2021). <i>Advanced Materials</i> , 2021 , 33, 2170350	24	
76	Nanoparticle Ex-solution for Supported Catalysts: Materials Design, Mechanism and Future Perspectives. <i>ACS Nano</i> , 2021 , 15, 81-110	16.7	36
75	Polyelemental Nanoparticles as Catalysts for a Li-O Battery. <i>ACS Nano</i> , 2021 , 15, 4235-4244	16.7	18
74	Surface Activity-Tuned Metal Oxide Chemiresistor: Toward Direct and Quantitative Halitosis Diagnosis. <i>ACS Nano</i> , 2021 , 15, 14207-14217	16.7	19
73	Selective and sensitive environmental gas sensors enabled by membrane overlayers. <i>Trends in Chemistry</i> , 2021 , 3, 547-560	14.8	2
72	2D layer assembly of Pt-ZnO nanoparticles on reduced graphene oxide for flexible NO ₂ sensors. <i>Sensors and Actuators B: Chemical</i> , 2021 , 331, 129371	8.5	23
71	Confinement of Ultrasmall Bimetallic Nanoparticles in Conductive Metal-Organic Frameworks via Site-Specific Nucleation. <i>Advanced Materials</i> , 2021 , 33, e2101216	24	6
70	Confinement of Ultrasmall Bimetallic Nanoparticles in Conductive Metal-Organic Frameworks via Site-Specific Nucleation (Adv. Mater. 38/2021). <i>Advanced Materials</i> , 2021 , 33, 2170302	24	0
69	Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection. <i>Advanced Materials</i> , 2021 , 33, e2105199	24	4
68	Effect of metal/metal oxide catalysts on graphene fiber for improved NO ₂ sensing. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130231	8.5	1
67	D-space-controlled graphene oxide hybrid membrane-loaded SnO ₂ nanosheets for selective H ₂ detection. <i>Journal of Sensor Science and Technology</i> , 2021 , 30, 376-380	0.3	1
66	Low-Thermal-Budget Doping of 2D Materials in Ambient Air Exemplified by Synthesis of Boron-Doped Reduced Graphene Oxide. <i>Advanced Science</i> , 2020 , 7, 1903318	13.6	3
65	Low-Thermal-Budget Doping: Low-Thermal-Budget Doping of 2D Materials in Ambient Air Exemplified by Synthesis of Boron-Doped Reduced Graphene Oxide (Adv. Sci. 7/2020). <i>Advanced Science</i> , 2020 , 7, 2070039	13.6	78
64	Pore-Size-Tuned Graphene Oxide Membrane as a Selective Molecular Sieving Layer: Toward Ultrasensitive Chemiresistors. <i>Analytical Chemistry</i> , 2020 , 92, 957-965	7.8	18

63	Dopant-Driven Positive Reinforcement in Ex-Solution Process: New Strategy to Develop Highly Capable and Durable Catalytic Materials. <i>Advanced Materials</i> , 2020 , 32, e2003983	24	13
62	Catalytic Materials: Dopant-Driven Positive Reinforcement in Ex-Solution Process: New Strategy to Develop Highly Capable and Durable Catalytic Materials (Adv. Mater. 46/2020). <i>Advanced Materials</i> , 2020 , 32, 2070342	24	0
61	Colorimetric Dye-Loaded Nanofiber Yarn: Eye-Readable and Weavable Gas Sensing Platform. <i>ACS Nano</i> , 2020 ,	16.7	19
60	2D Materials Decorated with Ultrathin and Porous Graphene Oxide for High Stability and Selective Surface Activity. <i>Advanced Materials</i> , 2020 , 32, e2002723	24	18
59	Hydrogen Sensors Based on MoS Hollow Architectures Assembled by Pickering Emulsion. <i>ACS Nano</i> , 2020 , 14, 9652-9661	16.7	24
58	Focused Electric-Field Polymer Writing: Toward Ultralarge, Multistimuli-Responsive Membranes. <i>ACS Nano</i> , 2020 , 14, 12173-12183	16.7	13
57	Single-Atom Pt Stabilized on One-Dimensional Nanostructure Support Carbon Nitride/SnO Heterojunction Trapping. <i>ACS Nano</i> , 2020 , 14, 11394-11405	16.7	35
56	Universal Synthesis of Porous Inorganic Nanosheets via Graphene-Cellulose Templating Route. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34100-34108	9.5	7
55	A General Synthesis of Crumpled Metal Oxide Nanosheets as Superior Chemiresistive Sensing Layers. <i>Advanced Functional Materials</i> , 2019 , 29, 1903128	15.6	37
54	High-Resolution, Fast, and Shape-Conformable Hydrogen Sensor Platform: Polymer Nanofiber Yarn Coupled with Nanograined Pd@Pt. <i>ACS Nano</i> , 2019 , 13, 6071-6082	16.7	35
53	Metal-Organic Frameworks for Chemiresistive Sensors. <i>Chem</i> , 2019 , 5, 1938-1963	16.2	216
52	All-carbon fiber-based chemical sensor: Improved reversible NO ₂ reaction kinetics. <i>Sensors and Actuators B: Chemical</i> , 2019 , 290, 293-301	8.5	18
51	Heterogeneous Metal Oxide-Graphene Thorn-Bush Single Fiber as a Freestanding Chemiresistor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10208-10217	9.5	17
50	Continuous Meter-Scale Synthesis of Weavable Tunicate Cellulose/Carbon Nanotube Fibers for High-Performance Wearable Sensors. <i>ACS Nano</i> , 2019 , 13, 9332-9341	16.7	54
49	Heterogeneous, Porous 2D Oxide Sheets via Rapid Galvanic Replacement: Toward Superior HCHO Sensing Application. <i>Advanced Functional Materials</i> , 2019 , 29, 1903012	15.6	30
48	Janus Graphene Liquid Crystalline Fiber with Tunable Properties Enabled by Ultrafast Flash Reduction. <i>Small</i> , 2019 , 15, e1901529	11	15
47	Chemiresistors: Catalytic Metal Nanoparticles Embedded in Conductive Metal-Organic Frameworks for Chemiresistors: Highly Active and Conductive Porous Materials (Adv. Sci. 21/2019). <i>Advanced Science</i> , 2019 , 6, 1970126	13.6	1
46	2D Oxide Sensors: Heterogeneous, Porous 2D Oxide Sheets via Rapid Galvanic Replacement: Toward Superior HCHO Sensing Application (Adv. Funct. Mater. 42/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970290	15.6	

45	Catalytic Metal Nanoparticles Embedded in Conductive Metal-Organic Frameworks for Chemiresistors: Highly Active and Conductive Porous Materials. <i>Advanced Science</i> , 2019 , 6, 1900250	13.6	26
44	Bio-inspired heterogeneous sensitization of bimetal oxides on SnO scaffolds for unparalleled formaldehyde detection. <i>Chemical Communications</i> , 2019 , 55, 3622-3625	5.8	8
43	Nitrogen-Doped Single Graphene Fiber with Platinum Water Dissociation Catalyst for Wearable Humidity Sensor. <i>Small</i> , 2018 , 14, e1703934	11	72
42	Three-Dimensional Nanofibrous Air Electrode Assembled With Carbon Nanotubes-Bridged Hollow FeO Nanoparticles for High-Performance Lithium-Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6531-6540	9.5	46
41	Hierarchically interconnected porosity control of catalyst-loaded WO ₃ nanofiber scaffold: Superior acetone sensing layers for exhaled breath analysis. <i>Sensors and Actuators B: Chemical</i> , 2018 , 259, 616-625	8.5	43
40	Nanoscale PtO Catalysts-Loaded SnO Multichannel Nanofibers toward Highly Sensitive Acetone Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2016-2025	9.5	73
39	Few-Layered WS ₂ Nanoplates Confined in Co, N-Doped Hollow Carbon Nanocages: Abundant WS ₂ Edges for Highly Sensitive Gas Sensors. <i>Advanced Functional Materials</i> , 2018 , 28, 1802575	15.6	53
38	Pt nanoparticles functionalized tungsten oxynitride hybrid chemiresistor: Low-temperature NO ₂ sensing. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 1269-1277	8.5	16
37	An Impedance-Transduced Chemiresistor with a Porous Carbon Channel for Rapid, Nonenzymatic, Glucose Sensing. <i>Analytical Chemistry</i> , 2018 , 90, 9338-9346	7.8	11
36	Perovskite La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O ₃ Sensitized SnO ₂ fiber-in-tube scaffold: highly selective and sensitive formaldehyde sensing. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10543-10551	13	22
35	Graphene oxide templating: facile synthesis of morphology engineered crumpled SnO ₂ nanofibers for superior chemiresistors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13825-13834	13	24
34	Glass-Fabric Reinforced Ag Nanowire/Siloxane Composite Heater Substrate: Sub-10 nm Metal@Metal Oxide Nanosheet for Sensitive Flexible Sensing Platform. <i>Small</i> , 2018 , 14, e1802260	11	16
33	Gas Sensors: Few-Layered WS ₂ Nanoplates Confined in Co, N-Doped Hollow Carbon Nanocages: Abundant WS ₂ Edges for Highly Sensitive Gas Sensors (Adv. Funct. Mater. 36/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870254	15.6	0
32	Hierarchical Metal-Organic Framework-Assembled Membrane Filter for Efficient Removal of Particulate Matter. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19957-19963	9.5	52
31	Bimodally Porous WO Microbelts Functionalized with Pt Catalysts for Selective HS Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20643-20651	9.5	63
30	Bioinspired Cocatalysts Decorated WO Nanotube Toward Unparalleled Hydrogen Sulfide Chemiresistor. <i>ACS Sensors</i> , 2018 , 3, 1164-1173	9.2	28
29	In Situ Coupling of Multidimensional MOFs for Heterogeneous Metal-Oxide Architectures: Toward Sensitive Chemiresistors. <i>ACS Central Science</i> , 2018 , 4, 929-937	16.8	38
28	Chitosan-templated Pt nanocatalyst loaded mesoporous SnO nanofibers: a superior chemiresistor toward acetone molecules. <i>Nanoscale</i> , 2018 , 10, 13713-13721	7.7	42

27	Nanoscale PdO Catalyst Functionalized CoO Hollow Nanocages Using MOF Templates for Selective Detection of Acetone Molecules in Exhaled Breath. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8201-8210	9.5	182
26	Optically Sintered 2D RuO ₂ Nanosheets: Temperature-Controlled NO ₂ Reaction. <i>Advanced Functional Materials</i> , 2017 , 27, 1606026	15.6	35
25	Metal-Organic Framework Templated Catalysts: Dual Sensitization of PdO-ZnO Composite on Hollow SnO Nanotubes for Selective Acetone Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18069-18077	9.5	127
24	Innovative Nanosensor for Disease Diagnosis. <i>Accounts of Chemical Research</i> , 2017 , 50, 1587-1596	24.3	143
23	Supercharging a MnO Nanowire: An Amine-Altered Morphology Retains Capacity at High Rates and Mass Loadings. <i>Langmuir</i> , 2017 , 33, 9324-9332	4	1
22	Facile synthetic method of catalyst-loaded ZnO nanofibers composite sensor arrays using bio-inspired protein cages for pattern recognition of exhaled breath. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 166-175	8.5	36
21	Electrospun Nanostructures for High Performance Chemiresistive and Optical Sensors. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600569	3.9	43
20	Metal-Organic Framework Templated Synthesis of Ultrasmall Catalyst Loaded ZnO/ZnCoO Hollow Spheres for Enhanced Gas Sensing Properties. <i>Scientific Reports</i> , 2017 , 7, 45074	4.9	74
19	Accelerating Palladium Nanowire H Sensors Using Engineered Nanofiltration. <i>ACS Nano</i> , 2017 , 11, 9276-9285	12.5	123
18	Hollow Pd-Ag Composite Nanowires for Fast Responding and Transparent Hydrogen Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39464-39474	9.5	58
17	Elaborate Manipulation for Sub-10 nm Hollow Catalyst Sensitized Heterogeneous Oxide Nanofibers for Room Temperature Chemical Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24821-24829	9.5	9
16	Exceptional High-Performance of Pt-Based Bimetallic Catalysts for Exclusive Detection of Exhaled Biomarkers. <i>Advanced Materials</i> , 2017 , 29, 1700737	24	84
15	Metal Organic Framework-Templated Chemiresistor: Sensing Type Transition from P-to-N Using Hollow Metal Oxide Polyhedron via Galvanic Replacement. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11868-11876	16.4	101
14	WO ₃ nanofibers functionalized by protein-templated RuO ₂ nanoparticles as highly sensitive exhaled breath gas sensing layers. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 1276-1282	8.5	39
13	Silver Nanowire Embedded Colorless Polyimide Heater for Wearable Chemical Sensors: Improved Reversible Reaction Kinetics of Optically Reduced Graphene Oxide. <i>Small</i> , 2016 , 12, 5826-5835	11	52
12	Heterogeneous Sensitization of Metal-Organic Framework Driven Metal@Metal Oxide Complex Catalysts on an Oxide Nanofiber Scaffold Toward Superior Gas Sensors. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13431-13437	16.4	268
11	Metal Chelation Assisted In Situ Migration and Functionalization of Catalysts on Peapod-Like Hollow SnO toward a Superior Chemical Sensor. <i>Small</i> , 2016 , 12, 5989-5997	11	47
10	Highly sensitive and selective acetone sensing performance of WO ₃ nanofibers functionalized by Rh ₂ O ₃ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2016 , 224, 185-192	8.5	88

9	Protein-Encapsulated Catalysts: WO ₃ Nanofiber-Based Biomarker Detectors Enabled by Protein-Encapsulated Catalyst Self-Assembled on Polystyrene Colloid Templates (<i>Small</i> 7/2016). <i>Small</i> , 2016 , 12, 964-964	11	1
8	Rational design of Sn-based multicomponent anodes for high performance lithium-ion batteries: SnO ₂ @TiO ₂ @reduced graphene oxide nanotubes. <i>RSC Advances</i> , 2016 , 6, 2920-2925	3.7	41
7	Catalyst-decorated hollow WO ₃ nanotubes using layer-by-layer self-assembly on polymeric nanofiber templates and their application in exhaled breath sensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 301-310	8.5	78
6	Bio-inspired Cr ₂ O ₃ and Co ₃ O ₄ Nanoparticles Loaded Electrospun WO ₃ Nanofiber Chemical Sensor for Early Diagnosis of Halitosis. <i>Journal of Sensor Science and Technology</i> , 2016 , 25, 223-228	0.3	
5	WO ₃ Nanofiber-Based Biomarker Detectors Enabled by Protein-Encapsulated Catalyst Self-Assembled on Polystyrene Colloid Templates. <i>Small</i> , 2016 , 12, 911-20	11	62
4	Rational Design of Highly Porous SnO ₂ Nanotubes Functionalized with Biomimetic Nanocatalysts for Direct Observation of Simulated Diabetes. <i>Advanced Functional Materials</i> , 2016 , 26, 4740-4748	15.6	115
3	Mesoporous WO ₃ Nanofibers with Protein-Templated Nanoscale Catalysts for Detection of Trace Biomarkers in Exhaled Breath. <i>ACS Nano</i> , 2016 , 10, 5891-9	16.7	173
2	Thin-walled SnO ₂ nanotubes functionalized with Pt and Au catalysts via the protein templating route and their selective detection of acetone and hydrogen sulfide molecules. <i>Nanoscale</i> , 2015 , 7, 16417-26	7.7	116
1	Sacrificial Template-Assisted Synthesis of Inorganic Nanosheets with High-Loading Single-Atom Catalysts: A General Approach. <i>Advanced Functional Materials</i> , 2110485	15.6	2