

Won-Tae Koo

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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.

54 papers	2,637 citations	30 h-index	51 g-index
57 ext. papers	3,359 ext. citations	12.1 avg, IF	5.68 L-index

#	Paper	IF	Citations
54	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
53	Metal-Organic Frameworks for Chemiresistive Sensors. <i>CheM</i> , 2019 , 5, 1938-1963	16.2	216
52	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
51	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
50	Accelerating Palladium Nanowire H Sensors Using Engineered Nanofiltration. <i>ACS Nano</i> , 2017 , 11, 9276-9285	9.5	123
49	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
48	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
47	Exceptional High-Performance of Pt-Based Bimetallic Catalysts for Exclusive Detection of Exhaled Biomarkers. <i>Advanced Materials</i> , 2017 , 29, 1700737	24	84
46	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
45	Hybrid crystalline-ITO/metal nanowire mesh transparent electrodes and their application for highly flexible perovskite solar cells. <i>NPG Asia Materials</i> , 2016 , 8, e282-e282	10.3	76
44	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
43	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
42	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
41	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
40	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
39	MOF derived ZnCo ₂ O ₄ porous hollow spheres functionalized with Ag nanoparticles for a long-cycle and high-capacity lithium ion battery anode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22717-22725	13	52
38	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

37	Catalyst-loaded porous WO ₃ nanofibers using catalyst-decorated polystyrene colloid templates for detection of biomarker molecules. <i>Chemical Communications</i> , 2015 , 51, 2609-12	5.8	47
36	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
35	Pt-Functionalized PdO Nanowires for Room Temperature Hydrogen Gas Sensors. <i>ACS Sensors</i> , 2018 , 3, 2152-2158	9.2	46
34	Electrospun Nanostructures for High Performance Chemiresistive and Optical Sensors. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600569	3.9	43
33	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
32	Chitosan-templated Pt nanocatalyst loaded mesoporous SnO nanofibers: a superior chemiresistor toward acetone molecules. <i>Nanoscale</i> , 2018 , 10, 13713-13721	7.7	42
31	Chemiresistive Hydrogen Sensors: Fundamentals, Recent Advances, and Challenges. <i>ACS Nano</i> , 2020 , 14, 14284-14322	16.7	41
30	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
29	Metal-Organic Framework-Templated PdO-CoO Nanocubes Functionalized by SWCNTs: Improved NO Reaction Kinetics on Flexible Heating Film. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40593-40603	9.5	37
28	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
27	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
26	Feasible Defect Engineering by Employing Metal Organic Framework Templates into One-Dimensional Metal Oxides for Battery Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20540-20549	9.5	34
25	Sub-Parts-per-Million Hydrogen Sulfide Colorimetric Sensor: Lead Acetate Anchored Nanofibers toward Halitosis Diagnosis. <i>Analytical Chemistry</i> , 2018 , 90, 8769-8775	7.8	34
24	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
23	The Design and Science of Polyelemental Nanoparticles. <i>ACS Nano</i> , 2020 , 14, 6407-6413	16.7	29
22	Bioinspired Cocatalysts Decorated WO Nanotube Toward Unparalleled Hydrogen Sulfide Chemiresistor. <i>ACS Sensors</i> , 2018 , 3, 1164-1173	9.2	28
21	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
20	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

19	Hydrogen Sensors Based on MoS Hollow Architectures Assembled by Pickering Emulsion. <i>ACS Nano</i> , 2020 , 14, 9652-9661	16.7	24
18	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
17	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
16	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
15	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
14	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
13	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
12	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
11	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
10	Universal Synthesis of Porous Inorganic Nanosheets via Graphene-Cellulose Templating Route. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34100-34108	9.5	7
9	Hydrogen Sensors from Composites of Ultra-small Bimetallic Nanoparticles and Porous Ion-Exchange Polymers. <i>Chem</i> , 2020 , 6, 2746-2758	16.2	7
8	Large-area synthesis of nanoscopic catalyst-decorated conductive MOF film using microfluidic-based solution shearing. <i>Nature Communications</i> , 2021 , 12, 4294	17.4	6
7	Confinement of Ultrasmall Bimetallic Nanoparticles in Conductive Metal-Organic Frameworks via Site-Specific Nucleation. <i>Advanced Materials</i> , 2021 , 33, e2101216	24	6
6	Chemiresistive acetylene sensor fabricated from Ga-doped ZnO nanofibers functionalized with Pt catalysts. <i>Sensors and Actuators B: Chemical</i> , 2021 , 343, 130137	8.5	3
5	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
4	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
3	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
2	Surface hydration of fibrous filters by using water-absorbing metal-organic frameworks for efficient ultrafine particulate matter removal. <i>Chemical Engineering Journal</i> , 2022 , 446, 136710	14.7	0

- 1 2D Oxide Sensors: Heterogeneous, Porous 2D Oxide Sheets via Rapid Galvanic Replacement: Toward Superior HCHO Sensing Application (Adv. Funct. Mater. 42/2019). *Advanced Functional Materials*, **2019**, 29, 1970290 15.6