

Han Jin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Self-Healable Sensors Based Nanoparticles for Detecting Physiological Markers via Skin and Breath: Toward Disease Prevention via Wearable Devices. <i>Nano Letters</i> , 2016, 16, 4194-4202.	9.1	143
2	Novel solid-state manganese oxide-based reference electrode for YSZ-based oxygen sensors. <i>Sensors and Actuators B: Chemical</i> , 2011, 152, 261-266.	7.8	47
3	Directly transforming SnS ₂ nanosheets to hierarchical SnO ₂ nanotubes: Towards sensitive and selective sensing of acetone at relatively low operating temperatures. <i>Sensors and Actuators B: Chemical</i> , 2019, 292, 148-155.	7.8	42
4	From a Relatively Hydrophobic and Triethylamine (TEA) Adsorption-Selective Core-Shell Heterostructure to a Humidity-Resistant and TEA Highly Selective Sensing Prototype: An Alternative Approach to Improve the Sensing Characteristics of TEA Sensors. <i>ACS Sensors</i> , 2020, 5, 571-579.	7.8	39
5	Light-Regulated Electrochemical Sensor Array for Efficiently Discriminating Hazardous Gases. <i>ACS Sensors</i> , 2017, 2, 1467-1473.	7.8	31
6	Sensing mechanism of the zirconia-based highly selective NO sensor by using a plate-like Cr ₂ O ₃ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 219, 112-118.	7.8	28
7	Sensing behavior of YSZ-based amperometric NO ₂ sensors consisting of Mn-based reference-electrode and In ₂ O ₃ sensing-electrode. <i>Talanta</i> , 2012, 88, 318-323.	5.5	27
8	Compact Yttria-Stabilized Zirconia Based Total NO _x Sensor with a Dual Functional Co ₃ O ₄ /NiO Sensing Electrode. <i>ACS Sensors</i> , 2019, 4, 2150-2155.	7.8	27
9	Plate-like Cr ₂ O ₃ for highly selective sensing of nitric oxide. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 107-110.	7.8	26
10	UV regulation of non-equilibrated electrochemical reaction for detecting aromatic volatile organic compounds. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 30-40.	7.8	23
11	Chemically Modified Polyaniline for the Detection of Volatile Biomarkers of Minimal Sensitivity to Humidity and Bending. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800232.	7.6	23
12	EGFR point mutation detection of single circulating tumor cells for lung cancer using a micro-well array. <i>Biosensors and Bioelectronics</i> , 2019, 139, 111326.	10.1	19
13	Nanosensor-Based Flexible Electronic Assisted with Light Fidelity Communicating Technology for Volatolomics-Based Telemedicine. <i>ACS Nano</i> , 2020, 14, 15517-15532.	14.6	19
14	Geometric structure design of passive label-free microfluidic systems for biological micro-object separation. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	7.0	17
15	Nitrogen Dioxide Gas Sensor Based on Ag-Doped Graphene: A First-Principle Study. <i>Chemosensors</i> , 2021, 9, 227.	3.6	15
16	Metal-organic framework engineered corn-like SERS active Ag@Carbon with controllable spacing distance for tracking trace amount of organic compounds. <i>Journal of Hazardous Materials</i> , 2022, 424, 127686.	12.4	14
17	Compact YSZ-Rod-Based Hydrocarbon Sensor Utilizing Metal-Oxide Sensing-Electrode and Mn-Based Reference-Electrode Combination. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, J23.	2.2	12
18	Integrating Epigenetic Modulators in Nanofibers for Synergistic Gastric Cancer Therapy via Epigenetic Reprogramming. <i>Nano Letters</i> , 2021, 21, 298-307.	9.1	12

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19	Remote Tracking Gas Molecular via the Standalone-Like Nanosensor-Based Tele-Monitoring System. Nano-Micro Letters, 2021, 13, 32.	27.0	10
20	Batch microfabrication and testing of a novel silicon-base miniaturized reference electrode with an ion-exchanging nanochannel array for nitrite determination. RSC Advances, 2019, 9, 19699-19706.	3.6	9
21	Light-Regulated Electrochemical Reaction Assisted Core-Shell Heterostructure for Detecting Specific Volatile Markers with Controllable Sensitivity and Selectivity. ACS Sensors, 2019, 4, 1081-1089.	7.8	9
22	Smartphone Case-Based Gas Sensing Platform for On-site Acetone Tracking. ACS Sensors, 2022, 7, 1581-1592.	7.8	9
23	Selective Sensing of Gas Mixture via a Temperature Modulation Approach: New Strategy for Potentiometric Gas Sensor Obtaining Satisfactory Discriminating Features. Sensors, 2017, 17, 573.	3.8	8
24	NO ₂ sensing properties of electrode-supported sensor by tape casting and co-firing method. Ionics, 2015, 21, 2655-2662.	2.4	7
25	Further enhancement of the light-regulated mixed-potential signal with ZnO-based electrodes. Sensors and Actuators B: Chemical, 2018, 255, 3516-3522.	7.8	7
26	Artificial tailored catalytic activity for identification of 6 kinds of volatile organic compounds via the light-regulated electrochemical reaction. Sensors and Actuators B: Chemical, 2019, 282, 529-534.	7.8	7
27	Time-Resolved and Self-Adjusting Hybrid Functional Fabric Sensor for Decoupling Multiple Stimuli from Bending. Advanced Materials Technologies, 2019, 4, 1900290.	5.8	7
28	Light-regulated electrochemical reaction: Can it be able to improve the response behavior of amperometric gas sensors?. Sensors and Actuators B: Chemical, 2018, 267, 366-372.	7.8	6
29	Nested microring resonator with a doubled free spectral range for sensing application. Frontiers of Optoelectronics, 2017, 10, 144-150.	3.7	5
30	High-Performance Limiting Current Oxygen Sensor Comprised of Highly Active La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O ₃ Electrode. Sensors, 2018, 18, 2155.	3.8	5
31	A slot microring sensor with feedback spiral waveguide for trace gas CH ₄ sensing in mid-infrared region. Optoelectronics Letters, 2019, 15, 1-5.	0.8	5
32	Study of response and recovery rate of YSZ-based electrochemical sensor by laser ablation method. Ionics, 2020, 26, 4163-4169.	2.4	5
33	Discriminating hazardous gas mixture via a zirconia-based amperometric gas sensor. Ionics, 2018, 24, 1451-1456.	2.4	3
34	Batch Fabrication of Miniaturized Ag/AgCl Reference Electrode With Ion Exchanging Micro-Nano-Pores by Silicon-Base Double-Side Anisotropic Etching Process. Journal of Microelectromechanical Systems, 2019, 28, 817-823.	2.5	3
35	Gas phase reaction combined light-regulated electrochemical sensing technique for improved response selectivity and sensitivity to hydrocarbons. Ionics, 2020, 26, 6351-6357.	2.4	3
36	Hydrochromic Ni ₂ (CH ₃) ₄ NI derived humidity self-adaptive nano-electronic for precisely tracking gastric cancer-related volatile markers under humid condition. Chemical Engineering Journal, 2021, 425, 130543.	12.7	3

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37	An optic fiber sensor for multiple gases based on fiber loop ring-down spectroscopy and microring resonator arrays. <i>Optoelectronics Letters</i> , 2016, 12, 312-315.	0.8	1
38	Volatile Organic Compounds: Chemically Modified Polyaniline for the Detection of Volatile Biomarkers of Minimal Sensitivity to Humidity and Bending (<i>Adv. Healthcare Mater.</i> 15/2018). <i>Advanced Healthcare Materials</i> , 2018, 7, 1870059.	7.6	1
39	A Self-Driven Microfluidic Chip for Ricin and Abrin Detection. <i>Sensors</i> , 2022, 22, 3461.	3.8	1