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List of Publications by Year
in descending order

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28 papers	1,073 citations	430874 18 h-index	580821 25 g-index
29 all docs	29 docs citations	29 times ranked	1228 citing authors

#	Article	IF	Citations
1	Highly Sensitive and Wearable Liquid Metalâ€Based Pressure Sensor for Health Monitoring Applications: Integration of a 3Dâ€Printed Microbump Array with the Microchannel. Advanced Healthcare Materials, 2019, 8, e1900978.	7.6	116
2	Synergetic Effect of Porous Elastomer and Percolation of Carbon Nanotube Filler toward High Performance Capacitive Pressure Sensors. ACS Applied Materials & Interfaces, 2020, 12, 1698-1706.	8.0	113
3	Monolithic Micro Light-Emitting Diode/Metal Oxide Nanowire Gas Sensor with Microwatt-Level Power Consumption. ACS Sensors, 2020, 5, 563-570.	7.8	87
4	Localized Liquid-Phase Synthesis of Porous SnO₂ Nanotubes on MEMS Platform for Low-Power, High Performance Gas Sensors. ACS Applied Materials & Interfaces, 2017, 9, 27111-27119.	8.0	81
5	Micropatterning of metal oxide nanofibers by electrohydrodynamic (EHD) printing towards highly integrated and multiplexed gas sensor applications. Sensors and Actuators B: Chemical, 2017, 250, 574-583.	7.8	74
6	Gas Sensor by Direct Growth and Functionalization of Metal Oxide/Metal Sulfide Coreâ€“Shell Nanowires on Flexible Substrates. ACS Applied Materials & Interfaces, 2019, 11, 24298-24307.	8.0	65
7	Biomimetic Turbinate-like Artificial Nose for Hydrogen Detection Based on 3D Porous Laser-Induced Graphene. ACS Applied Materials & Interfaces, 2019, 11, 24386-24394.	8.0	64
8	High Accuracy Real-Time Multi-Gas Identification by a Batch-Uniform Gas Sensor Array and Deep Learning Algorithm. ACS Sensors, 2022, 7, 430-440.	7.8	60
9	Fully integrated and portable semiconductor-type multi-gas sensing module for IoT applications. Sensors and Actuators B: Chemical, 2018, 265, 660-667.	7.8	55
10	Morphology-controllable wrinkled hierarchical structure and its application to superhydrophobic triboelectric nanogenerator. Nano Energy, 2021, 85, 105978.	16.0	54
11	Chemo-Mechanically Operating Palladium-Polymer Nanograting Film for a Self-Powered H₂ Gas Sensor. ACS Nano, 2020, 14, 16813-16822.	14.6	40
12	Microporous Elastomer Filter Coated with Metal Organic Frameworks for Improved Selectivity and Stability of Metal Oxide Gas Sensors. ACS Applied Materials & Interfaces, 2020, 12, 13338-13347.	8.0	39
13	Artificial Olfactory Neuron for an Inâ€Sensor Neuromorphic Nose. Advanced Science, 2022, 9, e2106017.	11.2	39
14	Self-powered strain sensor based on the piezo-transmittance of a mechanical metamaterial. Nano Energy, 2021, 89, 106447.	16.0	30
15	Pt Nanostructures Fabricated by Local Hydrothermal Synthesis for Low-Power Catalytic-Combustion Hydrogen Sensors. ACS Applied Nano Materials, 2021, 4, 7-12.	5.0	28
16	Customizable, conformal, and stretchable 3D electronics via predistorted pattern generation and thermoforming. Science Advances, 2021, 7, eabj0694.	10.3	27
17	Nanotransfer Printing on Textile Substrate with Water-Soluble Polymer Nanotemplate. ACS Nano, 2020, 14, 2191-2201.	14.6	25
18	Self-Powered Gas Sensor Based on a Photovoltaic Cell and a Colorimetric Film with Hierarchical Micro/Nanostructures. ACS Applied Materials & Interfaces, 2020, 12, 39024-39032.	8.0	24

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19	Low-power thermocatalytic hydrogen sensor based on electrodeposited cauliflower-like nanostructured Pt black. Sensors and Actuators B: Chemical, 2021, 329, 129129.	7.8	20
20	Solution-Processable Ag-Mediated ZnO Nanowires for Scalable Low-Temperature Fabrication of Flexible Devices. ACS Applied Electronic Materials, 2022, 4, 910-916.	4.3	12
21	Strain-Insensitive Soft Pressure Sensor for Health Monitoring Application Using 3D-Printed Microchannel Mold and Liquid Metal. , 2019, , .		3
22	Low Power Thermo-Catalytic Gas Sensor Based on Suspended Noble-Metal Nanotubes for H2 Sensing. , 2019, , .		3
23	Buffered Oxide Etchant Post-Treatment of a Silicon Nanofilm for Low-Cost and Performance-Enhanced Chemical Sensors. ACS Applied Materials & Interfaces, 2020, 12, 37128-37136.	8.0	2
24	Fast Flexible Bottomâ€Gated Hydrogen Sensor Based on Silicon Nanomembrane. Advanced Materials Technologies, 2021, 6, 2000847.	5.8	2
25	Nanogap Formation Using a Chromium Oxide Film and Its Application as a Palladium Hydrogen Switch. Langmuir, 2022, 38, 1072-1078.	3.5	2
26	Highly integrated SNO<inf>2</inf> nanotubes using templated ZNO nanowires for low power gas sensors. , 2017, , .		1
27	Scratch to sensitize: scratch-induced sensitivity enhancement in semiconductor thin-film sensors. Nanoscale, 2019, 11, 15374-15381.	5.6	1
28	Photocatalytic Gas Sensors Integrated on Micro UV-LEDS for Efficient Photon Energy Transfer. , 2019, , .		1