Gyuweon Jung

List of Publications by Year in descending order

26 papers	619 citations	687363 13 h-index	713466 21 g-index
26 all docs	26 docs citations	26 times ranked	429 citing authors

#	Article	IF	Citations
1	Effects of Channel Length Scaling on the Signal-to-Noise Ratio in FET-Type Gas Sensor With Horizontal Floating-Gate. IEEE Electron Device Letters, 2022, 43, 442-445.	3.9	14
2	Effects of Postdeposition Annealing Ambience on NO₂ Gas Sensing Performance in Si-Based FET-Type Gas Sensor. IEEE Transactions on Electron Devices, 2022, 69, 2604-2610.	3.0	8
3	Effects of Electrode Structure on H₂S Sensing and Low-Frequency Noise Characteristics in In₂O₃-Based Resistor-Type Gas Sensors. IEEE Sensors Journal, 2022, 22, 6311-6320.	4.7	6
4	Highly Selective and Low-Power Carbon Monoxide Gas Sensor Based on the Chain Reaction of Oxygen and Carbon Monoxide to WO₃. ACS Applied Materials & Interfaces, 2022, 14, 17950-17958.	8.0	22
5	Synergistic improvement of sensing performance in ferroelectric transistor gas sensors using remnant polarization. Materials Horizons, 2022, 9, 1623-1630.	12.2	11
6	Optimal Bias Conditions for FET-type Gas Sensors to Minimize Current Fluctuations. , 2022, , .		0
7	Response Analysis of Resistor-type Gas Sensor with Bias Voltage Condition. , 2022, , .		1
8	FET-type gas sensors: A review. Sensors and Actuators B: Chemical, 2021, 330, 129240.	7.8	108
9	Improved signal-to-noise-ratio of FET-type gas sensors using body bias control and embedded micro-heater. Sensors and Actuators B: Chemical, 2021, 329, 129166.	7.8	26
10	Effect of charge storage engineering on the NO₂ gas sensing properties of a WO₃ FET-type gas sensor with a horizontal floating-gate. Nanoscale, 2021, 13, 9009-9017.	5.6	18
11	A low-power embedded poly-Si micro-heater for gas sensor platform based on a FET transducer and its application for NO2 sensing. Sensors and Actuators B: Chemical, 2021, 334, 129642.	7.8	41
12	Comparison of the characteristics of semiconductor gas sensors with different transducers fabricated on the same substrate. Sensors and Actuators B: Chemical, 2021, 335, 129661.	7.8	36
13	Gas sensing materials roadmap. Journal of Physics Condensed Matter, 2021, 33, 303001.	1.8	49
14	Optimization of post-deposition annealing temperature for improved signal-to-noise ratio in In₂O₃ gas sensor. Semiconductor Science and Technology, 2021, 36, 075007.	2.0	14
15	Response Comparison of Resistor- and Si FET-Type Gas Sensors on the Same Substrate. IEEE Transactions on Electron Devices, 2021, 68, 3552-3557.	3.0	3
16	Highly stable Si MOSFET-type humidity sensor with ink-jet printed graphene quantum dots sensing layer. Sensors and Actuators B: Chemical, 2021, 343, 130134.	7.8	13
17	Effects of IGZO film thickness on H2S gas sensing performance: Response, excessive recovery, low-frequency noise, and signal-to-noise ratio. Sensors and Actuators B: Chemical, 2021, 344, 130148.	7.8	20
18	SO2 gas sensing characteristics of FET- and resistor-type gas sensors having WO3 as sensing material. Solid-State Electronics, 2020, 165, 107747.	1.4	50

#	Article	IF	Citations
19	Proposition of deposition and bias conditions for optimal signal-to-noise-ratio in resistor- and FET-type gas sensors. Nanoscale, 2020, 12, 19768-19775.	5.6	31
20	Low frequency noise characteristics of resistor- and Si MOSFET-type gas sensors fabricated on the same Si wafer with In2O3 sensing layer. Sensors and Actuators B: Chemical, 2020, 318, 128087.	7.8	45
21	Improved CO gas detection of Si MOSFET gas sensor with catalytic Pt decoration and pre-bias effect. Sensors and Actuators B: Chemical, 2019, 300, 127040.	7.8	35
22	Humidity-Sensitive Field Effect Transistor with In₂O₃ Nanoparticles as a Sensing Layer. Journal of Nanoscience and Nanotechnology, 2019, 19, 6656-6662.	0.9	12
23	Accurate identification of gas type and concentration using DNN reflecting the sensing properties of MOSFET-type gas sensor. , 2019, , .		5
24	Detection of Low Concentration NO2 gas Using Si FET-type Gas Sensor with Localized Micro-heater for Low Power Consumption. , 2019, , .		0
25	A Si FET-type Gas Sensor with Pulse-driven Localized Micro-heater for Low Power Consumption. , 2018, , .		10
26	Observation of physisorption in a high-performance FET-type oxygen gas sensor operating at room temperature. Nanoscale, 2018, 10, 18019-18027.	5.6	41