

Gyuweon Jung

List of Publications by Year in descending order

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26
papers

619
citations

687363

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713466

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all docs

26
docs citations

26
times ranked

429
citing authors

#	ARTICLE	IF	CITATIONS
1	FET-type gas sensors: A review. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129240.	7.8	108
2	SO ₂ gas sensing characteristics of FET- and resistor-type gas sensors having WO ₃ as sensing material. <i>Solid-State Electronics</i> , 2020, 165, 107747.	1.4	50
3	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303001.	1.8	49
4	Low frequency noise characteristics of resistor- and Si MOSFET-type gas sensors fabricated on the same Si wafer with In ₂ O ₃ sensing layer. <i>Sensors and Actuators B: Chemical</i> , 2020, 318, 128087.	7.8	45
5	Observation of physisorption in a high-performance FET-type oxygen gas sensor operating at room temperature. <i>Nanoscale</i> , 2018, 10, 18019-18027.	5.6	41
6	A low-power embedded poly-Si micro-heater for gas sensor platform based on a FET transducer and its application for NO ₂ sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129642.	7.8	41
7	Comparison of the characteristics of semiconductor gas sensors with different transducers fabricated on the same substrate. <i>Sensors and Actuators B: Chemical</i> , 2021, 335, 129661.	7.8	36
8	Improved CO gas detection of Si MOSFET gas sensor with catalytic Pt decoration and pre-bias effect. <i>Sensors and Actuators B: Chemical</i> , 2019, 300, 127040.	7.8	35
9	Proposition of deposition and bias conditions for optimal signal-to-noise-ratio in resistor- and FET-type gas sensors. <i>Nanoscale</i> , 2020, 12, 19768-19775.	5.6	31
10	Improved signal-to-noise-ratio of FET-type gas sensors using body bias control and embedded micro-heater. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129166.	7.8	26
11	Highly Selective and Low-Power Carbon Monoxide Gas Sensor Based on the Chain Reaction of Oxygen and Carbon Monoxide to WO ₃ . <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17950-17958.	8.0	22
12	Effects of IGZO film thickness on H ₂ S gas sensing performance: Response, excessive recovery, low-frequency noise, and signal-to-noise ratio. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130148.	7.8	20
13	Effect of charge storage engineering on the NO ₂ gas sensing properties of a WO ₃ FET-type gas sensor with a horizontal floating-gate. <i>Nanoscale</i> , 2021, 13, 9009-9017.	5.6	18
14	Optimization of post-deposition annealing temperature for improved signal-to-noise ratio in In ₂ O ₃ gas sensor. <i>Semiconductor Science and Technology</i> , 2021, 36, 075007.	2.0	14
15	Effects of Channel Length Scaling on the Signal-to-Noise Ratio in FET-Type Gas Sensor With Horizontal Floating-Gate. <i>IEEE Electron Device Letters</i> , 2022, 43, 442-445.	3.9	14
16	Highly stable Si MOSFET-type humidity sensor with ink-jet printed graphene quantum dots sensing layer. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130134.	7.8	13
17	Humidity-Sensitive Field Effect Transistor with In ₂ O ₃ Nanoparticles as a Sensing Layer. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6656-6662.	0.9	12
18	Synergistic improvement of sensing performance in ferroelectric transistor gas sensors using remnant polarization. <i>Materials Horizons</i> , 2022, 9, 1623-1630.	12.2	11

#	ARTICLE	IF	CITATIONS
19	A Si FET-type Gas Sensor with Pulse-driven Localized Micro-heater for Low Power Consumption. , 2018, , .		10
20	Effects of Postdeposition Annealing Ambience on NO ₂ Gas Sensing Performance in Si-Based FET-Type Gas Sensor. IEEE Transactions on Electron Devices, 2022, 69, 2604-2610.	3.0	8
21	Effects of Electrode Structure on H ₂ S Sensing and Low-Frequency Noise Characteristics in In ₂ O ₃ -Based Resistor-Type Gas Sensors. IEEE Sensors Journal, 2022, 22, 6311-6320.	4.7	6
22	Accurate identification of gas type and concentration using DNN reflecting the sensing properties of MOSFET-type gas sensor. , 2019, , .		5
23	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
24	Response Analysis of Resistor-type Gas Sensor with Bias Voltage Condition. , 2022, , .		1
25	Detection of Low Concentration NO ₂ gas Using Si FET-type Gas Sensor with Localized Micro-heater for Low Power Consumption. , 2019, , .		0
26	Optimal Bias Conditions for FET-type Gas Sensors to Minimize Current Fluctuations. , 2022, , .		0