Takeshi Hayasaka

List of Publications by Year
in descending order

23	855	1039406 9	1199166 12
papers	citations	h-index	g-index

23	23	23	1484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on chemiresistive room temperature gas sensors based on metal oxide nanostructures, graphene and 2D transition metal dichalcogenides. Mikrochimica Acta, 2018, 185, 213.	2.5	502
2	An electronic nose using a single graphene FET and machine learning for water, methanol, and ethanol. Microsystems and Nanoengineering, 2020, 6, 50.	3.4	88
3	AC phase sensing of graphene FETs for chemical vapors with fast recovery and minimal baseline drift. Sensors and Actuators B: Chemical, 2018, 263, 94-102.	4.0	51
4	Molybdenum-carbide-graphene composites for paper-based strain and acoustic pressure sensors. Carbon, 2020, 157, 594-601.	5.4	46
5	The influences of temperature, humidity, and O2 on electrical properties of graphene FETs. Sensors and Actuators B: Chemical, 2019, 285, 116-122.	4.0	35
6	All-Carbon Based Flexible Humidity Sensor. Journal of Nanoscience and Nanotechnology, 2019, 19, 5310-5316.	0.9	27
7	Defectâ€Induced Gas Adsorption on Graphene Transistors. Advanced Materials Interfaces, 2018, 5, 1701640.	1.9	24
8	Integration of Boron-Doped Diamond Microelectrode on CMOS-Based Amperometric Sensor Array by Film Transfer Technology. Journal of Microelectromechanical Systems, 2015, 24, 958-967.	1.7	15
9	Selective sensing of chemical vapors using phase spectra detection on CVD graphene fet. , 2018, , .		14
10	Metalloâ€Hydrogelâ€Assisted Synthesis and Direct Writing of Transition Metal Dichalcogenides. Advanced Functional Materials, 2019, 29, 1807612.	7.8	12
11	An AC sensing scheme for minimal baseline drift and fast recovery on graphene FET gas sensor. , 2017, , .		10
12	Label-Free AC Sensing by a Graphene Transistor for 100-ppb Formaldehyde in Air. , 2019, , .		7
13	Influence of chamber design on the gas sensing performance of graphene field-effect-transistor. SN Applied Sciences, 2020, 2, 1.	1.5	7
14	A Phase Sensitive Measurement Technique for Boosted Response Speed of Graphene Fet Gas Sensor. , 2017, , .		4
15	Temperature characterizations on graphene-based gas sensors. , 2017, , .		3
16	Integration of diamond microelectrodes on CMOS-based amperometric biosensor array by film transfer technology. , 2014, , .		2
17	Development of buffer layer structure for epitaxial growth of (100)/(001)Pb(Zr,Ti)O₃-based thin film on (111)Si wafer. Japanese Journal of Applied Physics, 2017, 56, 071501.	0.8	2
18	ALD-RuO₂ Functionalized Graphene FET with Distinctive Gas Sensing Patterns. , 2019, , .		2

#	Article	IF	Citations
19	Real-Time Evaluation of Scattering Strength on Graphene Fet for Selective Sensing of Chemical Vapors. , 2019, , .		2
20	Annealing Transformation of Diamond-Like Carbon Using Ni Catalyst. Japanese Journal of Applied Physics, 2013, 52, 128005.	0.8	1
21	A Quasi-Static Electrical Measurement Scheme for Probing Gas Reactions on Graphene Surface. , 2019, , .		1
22	Crumpled and Stretchable Graphene Gas Sensor with Enhanced Sensitivity to Hydrogen. , 2019, , .		0
23	A Paper-Based Disposable Strain Sensor by Direct Laser Printing. , 2019, , .		0