

Hyung-Gi Byun

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

617
citations

840585

11
h-index

940416

16
g-index

26
all docs

26
docs citations

26
times ranked

834
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of diabetic patient's breath with conducting polymer sensor array. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 305-308.	4.0	130
2	pH Heterojunction of Nickel Oxide-Decorated Cobalt Oxide Nanorods for Enhanced Sensitivity and Selectivity toward Volatile Organic Compounds. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1050-1058.	4.0	103
3	Quasi-SMILES-Based Nano-Quantitative Structure-Activity Relationship Model to Predict the Cytotoxicity of Multiwalled Carbon Nanotubes to Human Lung Cells. <i>Chemical Research in Toxicology</i> , 2018, 31, 183-190.	1.7	79
4	Quasi-QSAR for predicting the cell viability of human lung and skin cells exposed to different metal oxide nanomaterials. <i>Chemosphere</i> , 2019, 217, 243-249.	4.2	63
5	Towards a generalized toxicity prediction model for oxide nanomaterials using integrated data from different sources. <i>Scientific Reports</i> , 2018, 8, 6110.	1.6	56
6	Toxicity Classification of Oxide Nanomaterials: Effects of Data Gap Filling and PChem Score-based Screening Approaches. <i>Scientific Reports</i> , 2018, 8, 3141.	1.6	43
7	Tailored Graphene Micropatterns by Wafer-Scale Direct Transfer for Flexible Chemical Sensor Platform. <i>Advanced Materials</i> , 2021, 33, e2004827.	11.1	40
8	Curation of datasets, assessment of their quality and completeness, and nanoSAR classification model development for metallic nanoparticles. <i>Environmental Science: Nano</i> , 2018, 5, 1902-1910.	2.2	30
9	Blind signal processing for impulsive noise channels. <i>Journal of Communications and Networks</i> , 2012, 14, 27-33.	1.8	16
10	Implementation of Complementary Model using Optimal Combination of Hematological Parameters for Sepsis Screening in Patients with Fever. <i>Scientific Reports</i> , 2020, 10, 273.	1.6	15
11	Sensor array optimization techniques for exhaled breath analysis to discriminate diabetics using an electronic nose. <i>ETRI Journal</i> , 2018, 40, 802-812.	1.2	12
12	A Proposal Representation, Digital Coding and Clustering of Odor Information. , 2006, , .		5
13	Chemoresistive Sensor Readout Circuit Design for Detecting Gases with Slow Response Time Characteristics. <i>Sensors</i> , 2022, 22, 1102.	2.1	5
14	Implementation of olfactory interaction between images and smells. , 2012, , .		4
15	Comparative Analysis between Blood Test and Breath Analysis Using Sensors Array for Diabetic Patients. <i>Proceedings (mdpi)</i> , 2019, 14, .	0.2	4
16	Monitoring of disease-related volatile organic compounds in simulated room air. , 2014, , .		3
17	Chemical Sensors Array Optimization Based on Wilks Lamda Technique. <i>Journal of Sensor Science and Technology</i> , 2014, 23, 299-304.	0.1	3
18	On Training Neural Network Algorithms for Odor Identification for Future Multimedia Communication Systems. , 2006, , .		2

#	ARTICLE	IF	CITATIONS
19	Gas Sensing Property and Humidity Effect of Polypyrrole and SnO ₂ Composite Films. , 2006, , .		1
20	Sensing characteristics of nano-network structure of polypyrrole for volatile organic compounds (VOCs) gases. , 2006, , .		1
21	Chemosensors and chemoreception. Analytical and Bioanalytical Chemistry, 2014, 406, 3929-3929.	1.9	1
22	Investigation of Chemical Sensor Array Optimization Methods for DADSS. Journal of Sensor Science and Technology, 2016, 25, 13-19.	0.1	1
23	Exhaled Breath Analysis of Lung Cancer Patients Using Metal Oxide Sensor. , 2011, , .		0
24	Exhaled Breath Analysis for Assessment of IBD (Inflammatory Bowel Disease) Based on Electronic Nose System. ECS Meeting Abstracts, 2020, MA2020-01, 2407-2407.	0.0	0