

Hyung-Gi Byun

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

19
papers

415
citations

9
h-index

20
g-index

26
ext. papers

525
ext. citations

5.5
avg, IF

3.64
L-index

#	Paper	IF	Citations
19	Analysis of diabetic patients' breath with conducting polymer sensor array. <i>Sensors and Actuators B: Chemical</i> , 2005 , 108, 305-308	8.5	107
18	p-p 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	9.5	63
17	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	4	62
16	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	8.4	45
15	Toxicity Classification of Oxide Nanomaterials: Effects of Data Gap Filling and PChem Score-based Screening Approaches. <i>Scientific Reports</i> , 2018 , 8, 3141	4.9	30
14	Towards a generalized toxicity prediction model for oxide nanomaterials using integrated data from different sources. <i>Scientific Reports</i> , 2018 , 8, 6110	4.9	30
13	Tailored Graphene Micropatterns by Wafer-Scale Direct Transfer for Flexible Chemical Sensor Platform. <i>Advanced Materials</i> , 2021 , 33, e2004827	24	20
12	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	7.1	19
11	Blind signal processing for impulsive noise channels. <i>Journal of Communications and Networks</i> , 2012 , 14, 27-33	4.1	10
10	Sensor array optimization techniques for exhaled breath analysis to discriminate diabetics using an electronic nose. <i>ETRI Journal</i> , 2018 , 40, 802-812	1.4	6
9	A Proposal Representation, Digital Coding and Clustering of Odor Information 2006 ,		5
8	Implementation of Complementary Model using Optimal Combination of Hematological Parameters for Sepsis Screening in Patients with Fever. <i>Scientific Reports</i> , 2020 , 10, 273	4.9	4
7	Comparative Analysis between Blood Test and Breath Analysis Using Sensors Array for Diabetic Patients. <i>Proceedings (mdpi)</i> , 2019 , 14, 22	0.3	3
6	Chemical Sensors Array Optimization Based on Wilks Lamda Technique. <i>Journal of Sensor Science and Technology</i> , 2014 , 23, 299-304	0.3	3
5	Monitoring of disease-related volatile organic compounds in simulated room air 2014 ,		2
4	Implementation of olfactory interaction between images and smells 2012 ,		2
3	On Training Neural Network Algorithms for Odor Identification for Future Multimedia Communication Systems 2006 ,		1

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|---|--|-------|
| 2 | Sensing characteristics of nano-network structure of polypyrrole for volatile organic compounds (VOCs) gases 2006 , | 1 |
| 1 | Investigation of Chemical Sensor Array Optimization Methods for DADSS. <i>Journal of Sensor Science and Technology</i> , 2016 , 25, 13-19 | 0.3 1 |