

Elnaz Akbari

List of Publications by Year in descending order

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64
papers

933
citations

471509

17
h-index

477307

29
g-index

66
all docs

66
docs citations

66
times ranked

1067
citing authors

#	ARTICLE	IF	CITATIONS
1	Preference learning for eco-friendly hotels recommendation: A multi-criteria collaborative filtering approach. <i>Journal of Cleaner Production</i> , 2019, 215, 767-783.	9.3	98
2	A predictive method for hepatitis disease diagnosis using ensembles of neuro-fuzzy technique. <i>Journal of Infection and Public Health</i> , 2019, 12, 13-20.	4.1	85
3	Travelers decision making using online review in social network sites: A case on TripAdvisor. <i>Journal of Computational Science</i> , 2018, 28, 168-179.	2.9	77
4	Benefits of using carbon nanotubes in fuel cells: a review. <i>International Journal of Energy Research</i> , 2017, 41, 92-102.	4.5	53
5	Coronary Heart Disease Diagnosis Through Self-Organizing Map and Fuzzy Support Vector Machine with Incremental Updates. <i>International Journal of Fuzzy Systems</i> , 2020, 22, 1376-1388.	4.0	53
6	Brief review of monolayer molybdenum disulfide application in gas sensor. <i>Physica B: Condensed Matter</i> , 2018, 545, 510-518.	2.7	49
7	An analytical method for measuring the Parkinson's disease progression: A case on a Parkinson's telemonitoring dataset. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 136, 545-557.	5.0	39
8	<i>Escherichia coli</i> bacteria detection by using graphene-based biosensor. <i>IET Nanobiotechnology</i> , 2015, 9, 273-279.	3.8	32
9	Analytical Calculation of Sensing Parameters on Carbon Nanotube Based Gas Sensors. <i>Sensors</i> , 2014, 14, 5502-5515.	3.8	31
10	Silicene and graphene nano materials in gas sensing mechanism. <i>RSC Advances</i> , 2016, 6, 81647-81653.	3.6	31
11	Sensor application in Direct Methanol Fuel Cells (DMFCs). <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 1125-1139.	16.4	26
12	Analytical modeling of trilayer graphene nanoribbon Schottky-barrier FET for high-speed switching applications. <i>Nanoscale Research Letters</i> , 2013, 8, 55.	5.7	23
13	An analytical approach to evaluate the performance of graphene and carbon nanotubes for NH ₃ gas sensor applications. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 726-734.	2.8	23
14	Analytical prediction of liquid-gated graphene nanoscroll biosensor performance. <i>RSC Advances</i> , 2014, 4, 16153.	3.6	23
15	Analytical Modeling of Graphene-Based DNA Sensor. <i>Science of Advanced Materials</i> , 2012, 4, 1142-1147.	0.7	22
16	Analytical modeling and simulation of I-V characteristics in carbon nanotube based gas sensors using ANN and SVR methods. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 137, 173-180.	3.5	18
17	Monolayer Graphene Based CO ₂ Gas Sensor Analytical Model. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 1301-1304.	0.4	17
18	Analytical Approach to Study Sensing Properties of Graphene Based Gas Sensor. <i>Sensors</i> , 2020, 20, 1506.	3.8	17

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19	The effect of concentration on gas sensor model based on graphene nanoribbon. <i>Neural Computing and Applications</i> , 2014, 24, 143-146.	5.6	15
20	Detection of Escherichia coli K12 in Water Using Slot Waveguide in Cascaded Ring Resonator. <i>Silicon</i> , 2022, 14, 851-857.	3.3	15
21	A new approach for prediction of graphene based ISFET using regression tree and neural network. <i>Superlattices and Microstructures</i> , 2019, 130, 241-248.	3.1	13
22	Observer design for active suspension system using sliding mode control. , 2010, , .		12
23	Bilayer Graphene Application on NO ₂ Sensor Modelling. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7.	2.7	12
24	Soft computing techniques in prediction gas sensor based 2D material. <i>Organic Electronics</i> , 2018, 62, 181-188.	2.6	12
25	Gas Concentration Effects on the Sensing Properties of Bilayer Graphene. <i>Plasmonics</i> , 2014, 9, 987-992.	3.4	11
26	An analytical model and ANN simulation for carbon nanotube based ammonium gas sensors. <i>RSC Advances</i> , 2014, 4, 36896-36904.	3.6	11
27	Analytical assessment of carbon allotropes for gas sensor applications. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 92, 295-302.	5.0	11
28	Gas Concentration Effect on Channel Capacitance in Graphene Based Sensors. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 2449-2452.	0.4	10
29	Label-free biosensor array comprised of Vernier microring resonator and 3 \times optical coupler. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	10
30	ISVR modeling of an interferon gamma (IFN- γ) biosensor based on graphene. <i>Analytical Methods</i> , 2016, 8, 7217-7224.	2.7	8
31	Support vector regression and neural networks analytical models for gas sensor based on molybdenum disulfide. <i>Microsystem Technologies</i> , 2019, 25, 115-119.	2.0	7
32	Sensing and identification of carbon monoxide using carbon films fabricated by methane arc discharge decomposition technique. <i>Nanoscale Research Letters</i> , 2014, 9, 402.	5.7	6
33	Analytical Investigation for MoS ₂ Field Effect Transistor-Based Gas Sensor. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2018, 13, 399-404.	0.5	6
34	Band structures of graphene nanoscrolls and their dispersion relation near the Fermi point. <i>RSC Advances</i> , 2016, 6, 38753-38760.	3.6	4
35	<sc>ANFIS</sc> modeling for bacteria detection based on <sc>GNR</sc> biosensor. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1728-1736.	3.2	4
36	Silicon sub-wavelength grating resonator structures for gas sensor. <i>Superlattices and Microstructures</i> , 2020, 142, 106506.	3.1	4

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37	Analytical Modeling and Artificial Neural Network (ANN) Simulation of Current-Voltage Characteristics in Graphene Nanoscroll Based Gas Sensors. <i>Plasmonics</i> , 2015, 10, 1713-1722.	3.4	3
38	Analytical model of graphene-based biosensors for bacteria detection. <i>International Journal of Environmental Analytical Chemistry</i> , 2015, , 1-8.	3.3	3
39	Analytical investigation of bilayer lipid biosensor based on graphene. <i>Journal of Biomaterials Applications</i> , 2016, 30, 677-685.	2.4	3
40	Quality factor investigation by using trapezoidal subwavelength grating waveguide micro-ring resonator based on graphene. <i>Results in Physics</i> , 2018, 10, 304-307.	4.1	3
41	Analytical investigation of superior gas sensor based on phosphorene. <i>Microsystem Technologies</i> , 2019, 25, 897-903.	2.0	3
42	Silicon racetrack resonator based on nonlinear material. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	3
43	A Computational Model of Neural Learning to Predict Graphene Based ISFET. <i>Journal of Electronic Materials</i> , 2019, 48, 4647-4652.	2.2	3
44	Implementing the Equilibrium of Probabilities to Measure Critical Gap at Priority Junctions. <i>Journal of Testing and Evaluation</i> , 2019, 47, 1062-1074.	0.7	3
45	Analytical Modeling of Bilayer Graphene Based Biosensor. <i>Journal of Biosensors & Bioelectronics</i> , 2013, 04, .	0.4	3
46	The Effect of Bilayer Graphene Nanoribbon Geometry on Schottky-Barrier Diode Performance. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-8.	2.7	2
47	Capacitance Variation of Electrolyte-Gated Bilayer Graphene Based Transistors. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-5.	2.7	2
48	Review and evaluation of methods for estimating delay at priority junctions. <i>Australian Journal of Civil Engineering</i> , 2020, 18, 126-139.	1.6	2
49	Effect of motorcycle on the critical gap at priority junctions. <i>Australian Journal of Civil Engineering</i> , 2020, 18, 140-152.	1.6	2
50	Detection of bilayer lipid with graphene nanoribbon. <i>Electronic Materials Letters</i> , 2015, 11, 806-814.	2.2	1
51	Analytical investigations of gas-sensor using methane decomposition system. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	1
52	Micro-ring resonator made by ion exchange technique and detecting benzene (C_6H_6), propanol (C_3H_7OH) and methane (CH_4) as cladding layer. <i>Laser Physics</i> , 2018, 28, 106201.	1.2	1
53	Half panda waveguide structure in the generation of four-wave mixing. <i>Optik</i> , 2019, 183, 999-1007.	2.9	1
54	Urea sensor by racetrack silicon resonator. <i>Optik</i> , 2020, 208, 164042.	2.9	1

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55	Analytical investigation of ion-sensitive field effect transistor based on graphene. Journal of Materials Science: Materials in Electronics, 2020, 31, 6461-6466.	2.2	1
56	NO ₂ Gas Sensing Properties of Carbon Films Fabricated by Arc Discharge Methane Decomposition Technique. Telkomnika (Telecommunication Computing Electronics and Control), 2018, 16, 69.	0.8	1
57	Graphene-Based Gas Sensor Theoretical Framework. Advances in Computer and Electrical Engineering Book Series, 2017, , 117-149.	0.3	1
58	GAS Sensor Modelling and Simulation. Advances in Computer and Electrical Engineering Book Series, 2017, , 70-116.	0.3	1
59	Control and designing observer for active suspension system by using linear quadratic regulator. , 2012, , .		0
60	Arc discharge technique to fabricate nanocarbon gas sensing platform. Superlattices and Microstructures, 2020, 141, 106479.	3.1	0
61	Trapezoidal Sub-wavelength Grating Micro-Ring Resonator with High Quality Factor. , 2017, , .		0
62	Optimization of Current-Voltage Characteristics of Graphene-Based Biosensors. Advances in Computer and Electrical Engineering Book Series, 2017, , 244-264.	0.3	0
63	Modeling of Sensing Layer of Surface Acoustic-Wave-Based Gas Sensors. Advances in Computer and Electrical Engineering Book Series, 2017, , 224-243.	0.3	0
64	Development of Gas Sensor Model for Detection of NO ₂ Molecules Adsorbed on Defect-Free and Defective Graphene. Advances in Computer and Electrical Engineering Book Series, 2017, , 208-223.	0.3	0