Elnaz Akbari

List of Publications by Year
in descending order

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64	933	471061	476904
papers	citations	17	29
		h-index	g-index

66	66	66	1067
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preference learning for eco-friendly hotels recommendation: AÂmulti-criteria collaborative filtering approach. Journal of Cleaner Production, 2019, 215, 767-783.	4.6	98
2	A predictive method for hepatitis disease diagnosis using ensembles of neuro-fuzzy technique. Journal of Infection and Public Health, 2019, 12, 13-20.	1.9	85
3	Travelers decision making using online review in social network sites: A case on TripAdvisor. Journal of Computational Science, 2018, 28, 168-179.	1.5	77
4	Benefits of using carbon nanotubes in fuel cells: a review. International Journal of Energy Research, 2017, 41, 92-102.	2.2	53
5	Coronary Heart Disease Diagnosis Through Self-Organizing Map and Fuzzy Support Vector Machine with Incremental Updates. International Journal of Fuzzy Systems, 2020, 22, 1376-1388.	2.3	53
6	Brief review of monolayer molybdenum disulfide application in gas sensor. Physica B: Condensed Matter, 2018, 545, 510-518.	1.3	49
7	An analytical method for measuring the Parkinsonâ€™s disease progression: A case on a Parkinsonâ€™s telemonitoring dataset. Measurement: Journal of the International Measurement Confederation, 2019, 136, 545-557.	2.5	39
8	Escherichia coli bacteria detection by using grapheneâ€based biosensor. IET Nanobiotechnology, 2015, 9, 273-279.	1.9	32
9	Analytical Calculation of Sensing Parameters on Carbon Nanotube Based Gas Sensors. Sensors, 2014, 14, 5502-5515.	2.1	31
10	Silicene and graphene nano materials in gas sensing mechanism. RSC Advances, 2016, 6, 81647-81653.	1.7	31
11	Sensor application in Direct Methanol Fuel Cells (DMFCs). Renewable and Sustainable Energy Reviews, 2016, 60, 1125-1139.	8.2	26
12	Analytical modeling of trilayer graphene nanoribbon Schottky-barrier FET for high-speed switching applications. Nanoscale Research Letters, 2013, 8, 55.	3.1	23
13	An analytical approach to evaluate the performance of graphene and carbon nanotubes for NH₃ gas sensor applications. Beilstein Journal of Nanotechnology, 2014, 5, 726-734.	1.5	23
14	Analytical prediction of liquid-gated graphene nanoscroll biosensor performance. RSC Advances, 2014, 4, 16153.	1.7	23
15	Analytical Modeling of Graphene-Based DNA Sensor. Science of Advanced Materials, 2012, 4, 1142-1147.	0.1	22
16	Analytical modeling and simulation of Iâ€“V characteristics in carbon nanotube based gas sensors using ANN and SVR methods. Chemometrics and Intelligent Laboratory Systems, 2014, 137, 173-180.	1.8	18
17	Monolayer Graphene Based CO₂ Gas Sensor Analytical Model. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1301-1304.	0.4	17
18	Analytical Approach to Study Sensing Properties of Graphene Based Gas Sensor. Sensors, 2020, 20, 1506.	2.1	17

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19	The effect of concentration on gas sensor model based on graphene nanoribbon. Neural Computing and Applications, 2014, 24, 143-146.	3.2	15
20	Detection of Escherichia coli K12 in Water Using Slot Waveguide in Cascaded Ring Resonator. Silicon, 2022, 14, 851-857.	1.8	15
21	A new approach for prediction of graphene based ISFET using regression tree and neural network. Superlattices and Microstructures, 2019, 130, 241-248.	1.4	13
22	Observer design for active suspension system using sliding mode control. , 2010, , .		12
23	Bilayer Graphene Application on NO₂Sensor Modelling. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	12
24	Soft computing techniques in prediction gas sensor based 2D material. Organic Electronics, 2018, 62, 181-188.	1.4	12
25	Gas Concentration Effects on the Sensing Properties of Bilayer Graphene. Plasmonics, 2014, 9, 987-992.	1.8	11
26	An analytical model and ANN simulation for carbon nanotube based ammonium gas sensors. RSC Advances, 2014, 4, 36896-36904.	1.7	11
27	Analytical assessment of carbon allotropes for gas sensor applications. Measurement: Journal of the International Measurement Confederation, 2016, 92, 295-302.	2.5	11
28	Gas Concentration Effect on Channel Capacitance in Graphene Based Sensors. Journal of Computational and Theoretical Nanoscience, 2013, 10, 2449-2452.	0.4	10
29	Label-free biosensor array comprised of Vernier microring resonator and 3â€‰Ã—â€‰3 optical coupler. European Physical Journal Plus, 2020, 135, 1.	1.2	10
30	ISVR modeling of an interferon gamma (IFN-Î³) biosensor based on graphene. Analytical Methods, 2016, 8, 7217-7224.	1.3	8
31	Support vector regression and neural networks analytical models for gas sensor based on molybdenum disulfide. Microsystem Technologies, 2019, 25, 115-119.	1.2	7
32	Sensing and identification of carbon monoxide using carbon films fabricated by methane arc discharge decomposition technique. Nanoscale Research Letters, 2014, 9, 402.	3.1	6
33	Analytical Investigation for MoS₂ Field Effect Transistor-Based Gas Sensor. Journal of Nanoelectronics and Optoelectronics, 2018, 13, 399-404.	0.1	6
34	Band structures of graphene nanoscrolls and their dispersion relation near the Fermi point. RSC Advances, 2016, 6, 38753-38760.	1.7	4
35	<scp>ANFIS</scp> modeling for bacteria detection based on <scp>GNR</scp> biosensor. Journal of Chemical Technology and Biotechnology, 2016, 91, 1728-1736.	1.6	4
36	Silicon sub-wavelength grating resonator structures for gas sensor. Superlattices and Microstructures, 2020, 142, 106506.	1.4	4

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37	Analytical Modeling and Artificial Neural Network (ANN) Simulation of Current-Voltage Characteristics in Graphene Nanoscroll Based Gas Sensors. Plasmonics, 2015, 10, 1713-1722.	1.8	3
38	Analytical model of graphene-based biosensors for bacteria detection. International Journal of Environmental Analytical Chemistry, 2015, , 1-8.	1.8	3
39	Analytical investigation of bilayer lipid biosensor based on graphene. Journal of Biomaterials Applications, 2016, 30, 677-685.	1.2	3
40	Quality factor investigation by using trapezoidal subwavelength grating waveguide micro-ring resonator based on graphene. Results in Physics, 2018, 10, 304-307.	2.0	3
41	Analytical investigation of superior gas sensor based on phosphorene. Microsystem Technologies, 2019, 25, 897-903.	1.2	3
42	Silicon racetrack resonator based on nonlinear material. European Physical Journal D, 2019, 73, 1.	0.6	3
43	A Computational Model of Neural Learning to Predict Graphene Based ISFET. Journal of Electronic Materials, 2019, 48, 4647-4652.	1.0	3
44	Implementing the Equilibrium of Probabilities to Measure Critical Gap at Priority Junctions. Journal of Testing and Evaluation, 2019, 47, 1062-1074.	0.4	3
45	Analytical Modeling of Bilayer Graphene Based Biosensor. Journal of Biosensors & Bioelectronics, 2013, 04, .	0.4	3
46	The Effect of Bilayer Graphene Nanoribbon Geometry on Schottky-Barrier Diode Performance. Journal of Nanomaterials, 2013, 2013, 1-8.	1.5	2
47	Capacitance Variation of Electrolyte-Gated Bilayer Graphene Based Transistors. Journal of Nanomaterials, 2013, 2013, 1-5.	1.5	2
48	Review and evaluation of methods for estimating delay at priority junctions. Australian Journal of Civil Engineering, 2020, 18, 126-139.	0.6	2
49	Effect of motorcycle on the critical gap at priority junctions. Australian Journal of Civil Engineering, 2020, 18, 140-152.	0.6	2
50	Detection of bilayer lipid with graphene nanoribbon. Electronic Materials Letters, 2015, 11, 806-814.	1.0	1
51	Analytical investigations of gas-sensor using methane decomposition system. Environmental Earth Sciences, 2016, 75, 1.	1.3	1
52	Micro-ring resonator made by ion exchange technique and detecting benzene (C₆H₆), propanol (C₃H₇OH) and methane (CH₄) as cladding layer. Laser Physics, 2018, 28, 106201.	0.6	1
53	Half panda waveguide structure in the generation of four-wave mixing. Optik, 2019, 183, 999-1007.	1.4	1
54	Urea sensor by racetrack silicon resonator. Optik, 2020, 208, 164042.	1.4	1

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55	Analytical investigation of ion-sensitive field effect transistorÂbased on graphene. Journal of Materials Science: Materials in Electronics, 2020, 31, 6461-6466.	1.1	1
56	NO2 Gas Sensing Properties of Carbon Films Fabricated by Arc Discharge Methane Decomposition Technique. Telkomnika (Telecommunication Computing Electronics and Control), 2018, 16, 69.	0.6	1
57	Graphene-Based Gas Sensor Theoretical Framework. Advances in Computer and Electrical Engineering Book Series, 2017, , 117-149.	0.2	1
58	GAS Sensor Modelling and Simulation. Advances in Computer and Electrical Engineering Book Series, 2017, , 70-116.	0.2	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.	1.4	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.	0.2	0
63	Modeling of Sensing Layer of Surface Acoustic-Wave-Based Gas Sensors. Advances in Computer and Electrical Engineering Book Series, 2017, , 224-243.	0.2	0
64	Development of Gas Sensor Model for Detection of NO2 Molecules Adsorbed on Defect-Free and Defective Graphene. Advances in Computer and Electrical Engineering Book Series, 2017, , 208-223.	0.2	0