

# 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	Detection of Escherichia coli K12 in Water Using Slot Waveguide in Cascaded Ring Resonator. Silicon, 2022, 14, 851-857.	3.3	15
2	Urea sensor by racetrack silicon resonator. Optik, 2020, 208, 164042.	2.9	1
3	Label-free biosensor array comprised of Vernier microring resonator and 3 $\times$ optical coupler. European Physical Journal Plus, 2020, 135, 1.	2.6	10
4	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
5	Review and evaluation of methods for estimating delay at priority junctions. Australian Journal of Civil Engineering, 2020, 18, 126-139.	1.6	2
6	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.	4.0	53
7	Arc discharge technique to fabricate nanocarbon gas sensing platform. Superlattices and Microstructures, 2020, 141, 106479.	3.1	0
8	Analytical Approach to Study Sensing Properties of Graphene Based Gas Sensor. Sensors, 2020, 20, 1506.	3.8	17
9	Effect of motorcycle on the critical gap at priority junctions. Australian Journal of Civil Engineering, 2020, 18, 140-152.	1.6	2
10	Silicon sub-wavelength grating resonator structures for gas sensor. Superlattices and Microstructures, 2020, 142, 106506.	3.1	4
11	Analytical investigation of superior gas sensor based on phosphorene. Microsystem Technologies, 2019, 25, 897-903.	2.0	3
12	Support vector regression and neural networks analytical models for gas sensor based on molybdenum disulfide. Microsystem Technologies, 2019, 25, 115-119.	2.0	7
13	Silicon racetrack resonator based on nonlinear material. European Physical Journal D, 2019, 73, 1.	1.3	3
14	A Computational Model of Neural Learning to Predict Graphene Based ISFET. Journal of Electronic Materials, 2019, 48, 4647-4652.	2.2	3
15	A new approach for prediction of graphene based ISFET using regression tree and neural network. Superlattices and Microstructures, 2019, 130, 241-248.	3.1	13
16	Half panda waveguide structure in the generation of four-wave mixing. Optik, 2019, 183, 999-1007.	2.9	1
17	Preference learning for eco-friendly hotels recommendation: A multi-criteria collaborative filtering approach. Journal of Cleaner Production, 2019, 215, 767-783.	9.3	98
18	An analytical method for measuring the Parkinson's disease progression: A case on a Parkinson's telemonitoring dataset. Measurement: Journal of the International Measurement Confederation, 2019, 136, 545-557.	5.0	39

#	ARTICLE	IF	CITATIONS
19	A predictive method for hepatitis disease diagnosis using ensembles of neuro-fuzzy technique. Journal of Infection and Public Health, 2019, 12, 13-20.	4.1	85
20	Implementing the Equilibrium of Probabilities to Measure Critical Gap at Priority Junctions. Journal of Testing and Evaluation, 2019, 47, 1062-1074.	0.7	3
21	Travelers decision making using online review in social network sites: A case on TripAdvisor. Journal of Computational Science, 2018, 28, 168-179.	2.9	77
22	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. Laser Physics, 2018, 28, 106201.	1.2	1
23	Quality factor investigation by using trapezoidal subwavelength grating waveguide micro-ring resonator based on graphene. Results in Physics, 2018, 10, 304-307.	4.1	3
24	Soft computing techniques in prediction gas sensor based 2D material. Organic Electronics, 2018, 62, 181-188.	2.6	12
25	Brief review of monolayer molybdenum disulfide application in gas sensor. Physica B: Condensed Matter, 2018, 545, 510-518.	2.7	49
26	Analytical Investigation for $MoS_2$ Field Effect Transistor-Based Gas Sensor. Journal of Nanoelectronics and Optoelectronics, 2018, 13, 399-404.	0.5	6
27	$NO_2$ 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
28	Benefits of using carbon nanotubes in fuel cells: a review. International Journal of Energy Research, 2017, 41, 92-102.	4.5	53
29	Graphene-Based Gas Sensor Theoretical Framework. Advances in Computer and Electrical Engineering Book Series, 2017, , 117-149.	0.3	1
30	GAS Sensor Modelling and Simulation. Advances in Computer and Electrical Engineering Book Series, 2017, , 70-116.	0.3	1
31	Trapezoidal Sub-wavelength Grating Micro-Ring Resonator with High Quality Factor. , 2017, , .		0
32	Optimization of Current-Voltage Characteristics of Graphene-Based Biosensors. Advances in Computer and Electrical Engineering Book Series, 2017, , 244-264.	0.3	0
33	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
34	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
35	Sensor application in Direct Methanol Fuel Cells (DMFCs). Renewable and Sustainable Energy Reviews, 2016, 60, 1125-1139.	16.4	26
36	Band structures of graphene nanoscrolls and their dispersion relation near the Fermi point. RSC Advances, 2016, 6, 38753-38760.	3.6	4

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37	ISVR modeling of an interferon gamma (IFN- $\gamma$ ) biosensor based on graphene. Analytical Methods, 2016, 8, 7217-7224.	2.7	8
38	Silicene and graphene nano materials in gas sensing mechanism. RSC Advances, 2016, 6, 81647-81653.	3.6	31
39	<sc>ANFIS</sc> modeling for bacteria detection based on <sc>GNR</sc> biosensor. Journal of Chemical Technology and Biotechnology, 2016, 91, 1728-1736.	3.2	4
40	Analytical investigation of bilayer lipid biosensor based on graphene. Journal of Biomaterials Applications, 2016, 30, 677-685.	2.4	3
41	Analytical investigations of gas-sensor using methane decomposition system. Environmental Earth Sciences, 2016, 75, 1.	2.7	1
42	Analytical assessment of carbon allotropes for gas sensor applications. Measurement: Journal of the International Measurement Confederation, 2016, 92, 295-302.	5.0	11
43	Analytical Modeling and Artificial Neural Network (ANN) Simulation of Current-Voltage Characteristics in Graphene Nanoscroll Based Gas Sensors. Plasmonics, 2015, 10, 1713-1722.	3.4	3
44	Analytical model of graphene-based biosensors for bacteria detection. International Journal of Environmental Analytical Chemistry, 2015, , 1-8.	3.3	3
45	<i>Escherichia coli</i> bacteria detection by using graphene-based biosensor. IET Nanobiotechnology, 2015, 9, 273-279.	3.8	32
46	Detection of bilayer lipid with graphene nanoribbon. Electronic Materials Letters, 2015, 11, 806-814.	2.2	1
47	An analytical approach to evaluate the performance of graphene and carbon nanotubes for NH <sub>3</sub> gas sensor applications. Beilstein Journal of Nanotechnology, 2014, 5, 726-734.	2.8	23
48	Bilayer Graphene Application on NO <sub>2</sub> Sensor Modelling. Journal of Nanomaterials, 2014, 2014, 1-7.	2.7	12
49	Analytical Calculation of Sensing Parameters on Carbon Nanotube Based Gas Sensors. Sensors, 2014, 14, 5502-5515.	3.8	31
50	The effect of concentration on gas sensor model based on graphene nanoribbon. Neural Computing and Applications, 2014, 24, 143-146.	5.6	15
51	Gas Concentration Effects on the Sensing Properties of Bilayer Graphene. Plasmonics, 2014, 9, 987-992.	3.4	11
52	Analytical prediction of liquid-gated graphene nanoscroll biosensor performance. RSC Advances, 2014, 4, 16153.	3.6	23
53	Sensing and identification of carbon monoxide using carbon films fabricated by methane arc discharge decomposition technique. Nanoscale Research Letters, 2014, 9, 402.	5.7	6
54	Analytical modeling and simulation of I-V characteristics in carbon nanotube based gas sensors using ANN and SVR methods. Chemometrics and Intelligent Laboratory Systems, 2014, 137, 173-180.	3.5	18

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55	An analytical model and ANN simulation for carbon nanotube based ammonium gas sensors. RSC Advances, 2014, 4, 36896-36904.	3.6	11
56	Analytical modeling of trilayer graphene nanoribbon Schottky-barrier FET for high-speed switching applications. Nanoscale Research Letters, 2013, 8, 55.	5.7	23
57	Monolayer Graphene Based CO <sub>2</sub> Gas Sensor Analytical Model. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1301-1304.	0.4	17
58	The Effect of Bilayer Graphene Nanoribbon Geometry on Schottky-Barrier Diode Performance. Journal of Nanomaterials, 2013, 2013, 1-8.	2.7	2
59	Capacitance Variation of Electrolyte-Gated Bilayer Graphene Based Transistors. Journal of Nanomaterials, 2013, 2013, 1-5.	2.7	2
60	Gas Concentration Effect on Channel Capacitance in Graphene Based Sensors. Journal of Computational and Theoretical Nanoscience, 2013, 10, 2449-2452.	0.4	10
61	Analytical Modeling of Bilayer Graphene Based Biosensor. Journal of Biosensors & Bioelectronics, 2013, 04, .	0.4	3
62	Control and designing observer for active suspension system by using linear quadratic regulator. , 2012, , .		0
63	Analytical Modeling of Graphene-Based DNA Sensor. Science of Advanced Materials, 2012, 4, 1142-1147.	0.7	22
64	Observer design for active suspension system using sliding mode control. , 2010, , .		12