

# Mohamad T Ahmadi

## List of Publications by Year in descending order

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198  
papers

1,408  
citations

394421

19  
h-index

552781

26  
g-index

198  
all docs

198  
docs citations

198  
times ranked

959  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene Nanoribbon Conductance Model in Parabolic Band Structure. Journal of Nanomaterials, 2010, 2010, 1-4.	2.7	50
2	Analytical modeling of glucose biosensors based on carbon nanotubes. Nanoscale Research Letters, 2014, 9, 33.	5.7	50
3	The Ultimate Ballistic Drift Velocity in Carbon Nanotubes. Journal of Nanomaterials, 2008, 2008, 1-8.	2.7	32
4	Analytical modelling of monolayer graphene-based ion-sensitive FET to pH changes. Nanoscale Research Letters, 2013, 8, 173.	5.7	32
5	The drain velocity overshoot in an 80 nm metal-oxide-semiconductor field-effect transistor. Journal of Applied Physics, 2009, 105, 074503.	2.5	31
6	Analytical Calculation of Sensing Parameters on Carbon Nanotube Based Gas Sensors. Sensors, 2014, 14, 5502-5515.	3.8	31
7	Development of solution-gated graphene transistor model for biosensors. Nanoscale Research Letters, 2014, 9, 71.	5.7	30
8	Graphene/Graphene Oxide-Based Ultrasensitive Surface Plasmon Resonance Biosensor. Plasmonics, 2017, 12, 1991-1997.	3.4	29
9	An analytical approach to model capacitance and resistance of capped carbon nanotube single electron transistor. AEU - International Journal of Electronics and Communications, 2018, 90, 97-102.	2.9	28
10	Phosphorene as H <sub>2</sub> S and CH <sub>4</sub> Gas Sensor. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800086.	1.8	26
11	Current-voltage characteristics of a silicon nanowire transistor. Microelectronics Journal, 2009, 40, 547-549.	2.0	23
12	Analytical modeling of trilayer graphene nanoribbon Schottky-barrier FET for high-speed switching applications. Nanoscale Research Letters, 2013, 8, 55.	5.7	23
13	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
14	Analytical prediction of liquid-gated graphene nanoscroll biosensor performance. RSC Advances, 2014, 4, 16153.	3.6	23
15	The high-field drift velocity in degenerately-doped silicon nanowires. International Journal of Nanotechnology, 2009, 6, 601.	0.2	22
16	Analytical Modeling of Graphene-Based DNA Sensor. Science of Advanced Materials, 2012, 4, 1142-1147.	0.7	22
17	Modelling of Graphene Nanoribbon Fermi Energy. Journal of Nanomaterials, 2010, 2010, 1-6.	2.7	20
18	Graphene Based Biosensor Model for <i>Escherichia Coli</i> Bacteria Detection. Journal of Nanoscience and Nanotechnology, 2017, 17, 601-605.	0.9	20

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19	Graphene Nanoribbon Based Gas Sensor. Key Engineering Materials, 2013, 553, 7-11.	0.4	19
20	Gas adsorption effect on the graphene nanoribbon band structure and quantum capacitance. Adsorption, 2017, 23, 767-777.	3.0	19
21	Development of Carbon Nanotube Based Biosensors Model for Detection of Single-Nucleotide Polymorphism. Science of Advanced Materials, 2014, 6, 513-519.	0.7	18
22	Monolayer Graphene Based CO <sub>2</sub> Gas Sensor Analytical Model. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1301-1304.	0.4	17
23	Single Electron Transistor Scheme Based on Multiple Quantum Dot Islands: Carbon Nanotube and Fullerene. ECS Journal of Solid State Science and Technology, 2018, 7, M145-M152.	1.8	17
24	Quantum Capacitance Model for Graphene FET-Based Gas Sensor. IEEE Sensors Journal, 2019, 19, 3726-3732.	4.7	17
25	Analytical modeling of high performance single-walled carbon nanotube field-effect-transistor. Microelectronics Journal, 2010, 41, 579-584.	2.0	16
26	A model for length of saturation velocity region in double-gate Graphene nanoribbon transistors. Microelectronics Reliability, 2011, 51, 2143-2146.	1.7	16
27	Ionization coefficient of monolayer graphene nanoribbon. Microelectronics Reliability, 2012, 52, 1396-1400.	1.7	16
28	Current Analysis and Modeling of Fullerene Single-Electron Transistor at Room Temperature. Journal of Electronic Materials, 2017, 46, 4294-4298.	2.2	16
29	Band gap engineering of BC <sub>2</sub> N for nanoelectronic applications. Superlattices and Microstructures, 2017, 112, 328-338.	3.1	16
30	Analytical Modeling of Monolayer Graphene-based NO <sub>2</sub> Sensor. Sensor Letters, 2013, 11, 270-275.	0.4	16
31	Graphene Nanoribbon Field Effect Transistor Logic Gates Performance Projection. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1164-1170.	0.4	15
32	Current-voltage modeling of graphene-based DNA sensor. Neural Computing and Applications, 2014, 24, 85-89.	5.6	15
33	The effect of concentration on gas sensor model based on graphene nanoribbon. Neural Computing and Applications, 2014, 24, 143-146.	5.6	15
34	Design and Analysis of a New Carbon Nanotube Full Adder Cell. Journal of Nanomaterials, 2011, 2011, 1-6.	2.7	13
35	Carrier Statistics and Quantum Capacitance Models of Graphene Nanoscroll. Journal of Nanomaterials, 2014, 2014, 1-6.	2.7	13
36	Modeling and simulation of graphene-oxide-based RRAM. Journal of Computational Electronics, 2016, 15, 602-610.	2.5	13

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37	Analysis and Modeling of Fullerene Single Electron Transistor Based on Quantum Dot Arrays at Room Temperature. <i>Journal of Electronic Materials</i> , 2018, 47, 4799-4806.	2.2	13
38	Quantum conductance investigation on carbon nanotube-based antibiotic sensor. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 1641-1650.	2.5	13
39	Ballistic Conductance Model of Bilayer Graphene Nanoribbon (BGN). <i>Journal of Computational and Theoretical Nanoscience</i> , 2011, 8, 1993-1998.	0.4	12
40	Bilayer Graphene Application on NO <sub>2</sub> Sensor Modelling. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7.	2.7	12
41	Conductance modulation of charged lipid bilayer using electrolyte-gated graphene-field effect transistor. <i>Nanoscale Research Letters</i> , 2014, 9, 371.	5.7	12
42	SWCNT-Based Biosensor Modelling for pH Detection. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	2.7	12
43	Gas Concentration Effects on the Sensing Properties of Bilayer Graphene. <i>Plasmonics</i> , 2014, 9, 987-992.	3.4	11
44	Analysis and Simulation of Coulomb Blockade and Coulomb Diamonds in Fullerene Single Electron Transistors. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2018, 13, 138-143.	0.5	11
45	Carbon nanotube conductance model in parabolic band structure. , 2010, , .		10
46	The Effect of Applied Voltage on the Carrier Effective Mass in ABA Trilayer Graphene Nanoribbon. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012, 9, 1618-1621.	0.4	10
47	CHANNEL CONDUCTANCE OF ABA STACKING TRILAYER GRAPHENE NANORIBBON FIELD-EFFECT TRANSISTOR. <i>Modern Physics Letters B</i> , 2012, 26, 1250047.	1.9	10
48	Performance of Bilayer Graphene Nanoribbon Schottky Diode in Comparison with Conventional Diodes. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 323-327.	0.4	10
49	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
50	Electrical Property Analytical Prediction on Archimedes Chiral Carbon Nanoscrolls. <i>Journal of Electronic Materials</i> , 2016, 45, 5404-5411.	2.2	10
51	Investigating the electrical characteristics of a single electron transistor utilizing graphene nanoribbon as the island. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 8007-8013.	2.2	10
52	The impact of vacancy defects on the performance of a single-electron transistor with a carbon nanotube island. <i>Journal of Computational Electronics</i> , 2019, 18, 428-435.	2.5	10
53	Low-Dimensional Carrier Statistics in Nanostructures. <i>Current Nanoscience</i> , 2011, 7, 235-239.	1.2	10
54	Modelling and simulation of saturation region in double gate graphene nanoribbon transistors. <i>Semiconductors</i> , 2012, 46, 126-129.	0.5	9

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55	Analytical investigation on the electrooptical properties of graphene nanoscrolls for SPR-based sensor application. Journal of Computational Electronics, 2017, 16, 787-795.	2.5	9
56	Analysis and modeling of quantum capacitance on graphene single electron transistor. International Journal of Modern Physics B, 2018, 32, 1850235.	2.0	9
57	Fabrication of Carbon Nanoparticle Strand under Pulsed Arc Discharge. Plasmonics, 2018, 13, 2377-2386.	3.4	9
58	The effects of a Stone-â€Wales defect on the performance of a graphene-nanoribbon-based Schottky diode. Journal of Computational Electronics, 2019, 18, 802-812.	2.5	9
59	Graphene Nanoscroll Geometry Effect on Transistor Performance. Journal of Electronic Materials, 2020, 49, 544-550.	2.2	9
60	Monolayer Graphene Nanoribbon Homojunction Characteristics. Science of Advanced Materials, 2012, 4, 753-756.	0.7	9
61	Vertical Double Gate MOSFET For Nanoscale Device With Fully Depleted Feature. , 2009, , .		8
62	EFFECTIVE MOBILITY MODEL OF GRAPHENE NANORIBBON IN PARABOLIC BAND ENERGY. Modern Physics Letters B, 2011, 25, 739-745.	1.9	8
63	Perpendicular Electric Field Effect on Bilayer Graphene Carrier Statistic. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1975-1978.	0.4	8
64	Optimization of DNA Sensor Model Based Nanostructured Graphene Using Particle Swarm Optimization Technique. Journal of Nanomaterials, 2013, 2013, 1-9.	2.7	8
65	Influences of Sr-90 beta-ray irradiation on electrical characteristics of carbon nanoparticles. Journal of Applied Physics, 2016, 119, 124510.	2.5	8
66	Electrical Properties of MWCNT/HDPE Composite-Based MSM Structure Under Neutron Irradiation. Journal of Electronic Materials, 2017, 46, 2548-2555.	2.2	8
67	Performance analysis of one dimensional BC 2 N for nanoelectronics applications. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 102, 33-38.	2.7	8
68	Analytical modelling and simulation of gas adsorption effects on graphene nanoribbon electrical properties. Molecular Simulation, 2018, 44, 551-557.	2.0	8
69	Modeling of quantum capacitance of Graphene Nanoribbons. , 2010, , .		7
70	Bilayer Graphene Nanoribbon Carrier Statistic in Degenerate and Non Degenerate Limit. Journal of Computational and Theoretical Nanoscience, 2011, 8, 2029-2032.	0.4	7
71	Quantum confinement effect on trilayer graphene nanoribbon carrier concentration. Journal of Experimental Nanoscience, 2014, 9, 51-63.	2.4	7
72	Structural and Properties of Graphene Nanobelts Rolled Up Into Spiral by a Single Graphene Sheet. Journal of Computational and Theoretical Nanoscience, 2014, 11, 601-606.	0.4	7

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73	Analytical prediction of carbon nanoscroll-based electrochemical glucose biosensor performance. International Journal of Environmental Analytical Chemistry, 2017, 97, 1024-1036.	3.3	7
74	Carbon Nano-particle Synthesized by Pulsed Arc Discharge Method as a Light Emitting Device. Journal of Electronic Materials, 2018, 47, 4003-4009.	2.2	7
75	A Unified Drain-Current Model of Silicon Nanowire Field-Effect Transistor (SiNW-FET) for Performance Metric Evaluation. Science of Advanced Materials, 2014, 6, 354-360.	0.7	7
76	Modeling of Quantum Capacitance in Graphene Nanoribbon. AIP Conference Proceedings, 2011, , .	0.4	6
77	Schottky Current in Carbon Nanotube-Metal Contact. Journal of Computational and Theoretical Nanoscience, 2012, 9, 1554-1557.	0.4	6
78	Theory of Ionization Mechanism in Graphene Nanoribbons. Journal of Computational and Theoretical Nanoscience, 2012, 9, 2190-2192.	0.4	6
79	Graphene embedded surface plasmon resonance based sensor prediction model. Optical and Quantum Electronics, 2016, 48, 1.	3.3	6
80	Bandgap modulation of low-dimensional $\tilde{\Gamma}_3$ -graphyne-1 under uniform strain. Journal of Computational Electronics, 2020, 19, 947-956.	2.5	6
81	Analytical modeling of graphene oxide based memristor. Ain Shams Engineering Journal, 2021, 12, 1741-1748.	6.1	6
82	Graphene Nanoparticle-Based, Nitrate Ion Sensor Characteristics. Nanomaterials, 2021, 11, 150.	4.1	6
83	Band energy effect on carrier velocity limit in graphene nanoribbon. Journal of Experimental Nanoscience, 2012, 7, 62-73.	2.4	5
84	Carrier Motion Effect on Bilayer Graphene Nanoribbon Base Biosensor Model. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1338-1342.	0.4	5
85	Investigating the Mobility of Trilayer Graphene Nanoribbon in Nanoscale FETs. Journal of Electronic Materials, 2017, 46, 6188-6194.	2.2	5
86	The Effect of Molecular Adsorption on Electro-Optical Properties of Graphene-Based Sensors. Plasmonics, 2017, 12, 1193-1198.	3.4	5
87	Analysis of Co-Tunneling Current in Fullerene Single-Electron Transistor. Brazilian Journal of Physics, 2018, 48, 406-410.	1.4	5
88	Experimental and theoretical investigation of sensing parameters in carbon nanotube-based DNA sensor. IET Nanobiotechnology, 2018, 12, 1125-1129.	3.8	5
89	The Geometry Variation Effect on Carbon Atom Wire for Nano-Electronic Applications. Journal of Nanoelectronics and Optoelectronics, 2019, 14, 1120-1125.	0.5	5
90	Carrier Velocity in High-Field Transport of Trilayer Graphene Nanoribbon Field Effect Transistor. Science of Advanced Materials, 2014, 6, 633-639.	0.7	5

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91	Modelling of the current-voltage characteristics of a carbon nano tube field effect transistor. , 2008, , .		4
92	Formulation and simulation for electrical properties of a (5,3) Single Wall Carbon Nanotube. , 2008, , .		4
93	CARBON NANOTUBE CAPACITANCE MODEL IN DEGENERATE AND NONDEGENERATE REGIMES. , 2011, , .		4
94	DRIFT VELOCITY AND MOBILITY OF A GRAPHENE NANORIBBON IN A HIGH MAGNITUDE ELECTRIC FIELD. , 2011, , .		4
95	BILAYER GRAPHENE NANORIBBON CARRIER STATISTICS IN THE DEGENERATE REGIME. , 2011, , .		4
96	LOW-FIELD MOBILITY MODEL ON PARABOLIC BAND ENERGY OF GRAPHENE NANORIBBON. Modern Physics Letters B, 2011, 25, 281-290.	1.9	4
97	QUANTUM CAPACITANCE EFFECT ON ZIG-ZAG GRAPHENE NANOSCROLLS (ZGNS) (16, 0). Modern Physics Letters B, 2013, 27, 1350002.	1.9	4
98	Semi Analytical Modeling of Quantum Capacitance of Graphene-Based Ion Sensitive Field Effect Transistor. Journal of Computational and Theoretical Nanoscience, 2014, 11, 596-600.	0.4	4
99	Engineer-able optical properties of trilayer graphene nanoribbon. Physica Scripta, 2016, 91, 035802.	2.5	4
100	Impact of Hydrogen Adsorption on the Performance of a Single Electron Transistor Utilizing Fullerene Quantum Dots. ECS Journal of Solid State Science and Technology, 2018, 7, M191-M194.	1.8	4
101	Effect of solution pH and adsorbent concentration on the sensing parameters of TGNâ€based electrochemical sensor. IET Nanobiotechnology, 2019, 13, 584-592.	3.8	4
102	An Analytical Conductance Model for Gas Detection Based on a Zigzag Carbon Nanotube Sensor. Sensors, 2020, 20, 357.	3.8	4
103	Carrier velocity in carbon nano tube field effect transistor. , 2008, , .		3
104	Analysis and simulation of carriers statistic for semiconducting single wall carbon nanotube. Materials Research Innovations, 2009, 13, 211-213.	2.3	3
105	Ballistic Saturation Velocity of Quasi-2D Low-Dimensional Nanoscale Field Effect Transistor (FET). , 2009, , .		3
106	Trilayer graphene nanoribbon carrier statistics in degenerate and non degenerate limits. , 2012, , .		3
107	Modeling of graphene nano-ribbon Schottky diodes in the parabolic band structure limit. , 2012, , .		3
108	Contact Effect on the Currentâ€Voltage Characteristic of Graphene Nanoribbon Based Schottky Diode. Journal of Computational and Theoretical Nanoscience, 2015, 12, 478-483.	0.4	3

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109	Carrier relaxation time modelling of monolayer black phosphorene. <i>Micro and Nano Letters</i> , 2017, 12, 758-762.	1.3	3
110	Analytical Modeling of Acoustic Phonon-Limited Mobility in Strained Graphene Nanoribbons. <i>Journal of Electronic Materials</i> , 2017, 46, 6553-6562.	2.2	3
111	Impact of Chiral Indices on the Performance of Single Electron Transistor Utilizing Carbon Nanotube Island. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, M26-M29.	1.8	3
112	Band Gap Modulation by Two-Dimensional h-BN Nanostructure. <i>Physics of the Solid State</i> , 2019, 61, 2194-2199.	0.6	3
113	Analytical Study of Electronic Structure in Archimedean Type-Spiral Zig-Zag Graphene Nanoscroll. <i>Current Nanoscience</i> , 2014, 11, 87-94.	1.2	3
114	Investigating the Semi-Analytical Models of Momentum Relaxation Mean Free Time and Path and Ionization Coefficient of Trilayer Graphene Nanoribbon- Based FETs. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 071006.	1.8	3
115	The high-field drift velocity in degenerately-doped silicon nanowires. , 2008, , .		2
116	Graphene Nanoribbon Fermi Energy Model in Parabolic Band Structure. , 2010, , .		2
117	A review on carbon-based materials as on-chip interconnects. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
118	Current-voltage modeling of Bilayer Graphene Nanoribbon Schottky Diode. , 2011, , .		2
119	Monolayer graphene nanoribbon p-n junction. , 2011, , .		2
120	Effect of strain on doped graphene-based N/I/S junction with d-wave superconductivity. <i>Superlattices and Microstructures</i> , 2013, 63, 58-69.	3.1	2
121	The Effect of Interconnect on the Circuit Performance of 22 nm Graphene Nanoribbon Field Effect Transistor and MOSFET. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 1305-1309.	0.4	2
122	Geometry Effect on Graphene Nanoscrolls Band Gap. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 581-586.	0.4	2
123	The Effect of Bilayer Graphene Nanoribbon Geometry on Schottky-Barrier Diode Performance. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-8.	2.7	2
124	Capacitance Variation of Electrolyte-Gated Bilayer Graphene Based Transistors. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-5.	2.7	2
125	Layer Effect on Graphene Nanoribbon Quantum Capacitance. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 2328-2331.	0.4	2
126	Current-Voltage Characteristics of Bilayer Graphene Nanoribbon Field Effect Transistor. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 738-741.	0.4	2



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127	Strain effect on graphene nanoribbon carrier statistic in the presence of non-parabolic band structure. Chinese Physics B, 2016, 25, 096802.	1.4	2
128	Analytical study of the electronic properties of boron nitride nanosheet. , 2017, , .		2
129	Analytical modeling of phosphorene-based NO <sub>2</sub> gas sensor. International Journal of Modern Physics B, 2019, 33, 1950143.	2.0	2
130	THE BAND ENERGY ENGINEERING ON HIGH EPOXY (OR HYDROXYL) CONTENT GRAPHENE OXIDE. Surface Review and Letters, 2019, 26, 1850135.	1.1	2
131	Carbon-Based Band Gap Engineering in the h-BN Analytical Modeling. Materials, 2020, 13, 1026.	2.9	2
132	The current analysis of a single electron transistor based on double graphene nanoscroll island. Solid State Communications, 2021, 327, 114234.	1.9	2
133	Monolayer Twisted Graphene-Based Schottky Transistor. Materials, 2021, 14, 4109.	2.9	2
134	An Analytical Approach for Current Modeling in a Single Electron Transistor (SET) Utilizing Graphene Nanoscroll (GNS) as the Island. ECS Journal of Solid State Science and Technology, 2020, 9, 071001.	1.8	2
135	An Analytical Approach to Model the Optical Properties of Carbon Nanotubes for Plasmonic Devices. Journal of Nanoelectronics and Optoelectronics, 2018, 13, 208-213.	0.5	2
136	Perpendicular Electric Field Effect on Electronic Properties of Bilayer Graphene. Science of Advanced Materials, 2013, 5, 1954-1959.	0.7	2
137	Modeling Trilayer Graphene-Based DET Characteristics for a Nanoscale Sensor. Advances in Computer and Electrical Engineering Book Series, 2017, , 19-38.	0.3	2
138	Graphene and CNT Field Effect Transistors Based Biosensor Models. Advances in Computer and Electrical Engineering Book Series, 2017, , 294-333.	0.3	2
139	Theoretical analysis on the electronic properties of bubble-wrap carbon nanostructure: fullerene-doped graphene. Journal of Computational Electronics, 2022, 21, 214-226.	2.5	2
140	Thermoelectric Effect on Linear Array of Graphene-Based Materials Including Fullerene, Twisted Graphene, and Graphene Nanoribbon. ECS Journal of Solid State Science and Technology, 2022, 11, 051002.	1.8	2
141	Analytical Study of Carrier Statistic in 2-Dimensional Nanoscale P-MOS. , 2009, , .		1
142	Analytical study of drift velocity in N-type silicon nanowires. , 2009, , .		1
143	Physics-Based Simulation of Carrier Velocity in 2-Dimensional P-Type MOSFET. , 2009, , .		1
144	CARRIER STATISTICS MODEL FOR A BILAYER GRAPHENE NANORIBBON IN THE NONDEGENERATE REGIME. , 2011, , .		1

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145	Single Wall Carbon Nanotube Field Effect Transistor Model. Journal of Computational and Theoretical Nanoscience, 2011, 8, 261-267.	0.4	1
146	Effect of Graphene Nanoribbons Layers on Its Band Energy and the Electrical Properties. Journal of Computational and Theoretical Nanoscience, 2012, 9, 2082-2085.	0.4	1
147	Scattering effects in Silicon Nanowire Fin field effect transistor. , 2012, , .		1
148	Carrier concentration modeling of bilayer graphene. AIP Conference Proceedings, 2012, , .	0.4	1
149	Schottky barrier lowering effect on graphene nanoribbon based schottky diode. , 2013, , .		1
150	Bilayer Graphene Nanoribbon Mobility Model in Ballistic Transport Limit. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1262-1265.	0.4	1
151	The impact of germanium in strained Si/relaxed Si <sub>1-x</sub> Ge <sub>x</sub> on carrier performance in non-degenerate and degenerate regimes. Journal of Semiconductors, 2013, 34, 062001.	3.7	1
152	The effect of width on graphene nanoribbon density of state under uniaxial strain. , 2013, , .		1
153	ENERGY QUANTIZATION ON THE CURRENT-VOLTAGE CHARACTERISTIC OF NANOSCALE TWO-DIMENSIONAL MOSFET. International Journal of Modern Physics B, 2013, 27, 1350077.	2.0	1
154	Modeling of Nanodevices and Nanostructures. Journal of Nanomaterials, 2014, 2014, 1-2.	2.7	1
155	A carrier velocity model for electrical detection of gas molecules. Beilstein Journal of Nanotechnology, 2019, 10, 644-653.	2.8	1
156	Silicon Doping Effect on the Electronic Behavior of Graphene Nanoscrolls. Journal of Electronic Materials, 2021, 50, 2903-2910.	2.2	1
157	The Potential Barrier of Graphene Nanoribbon Based Schottky Diode. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 281-284.	0.5	1
158	Quantum Transport Mode in Graphene Nanoribbon Based Transistor. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 886-890.	0.5	1
159	Modelling Effective Charge Density in Graphene-Based DNA Sensor. Science of Advanced Materials, 2016, 8, 1187-1194.	0.7	1
160	Graphene Nanoribbon Field Effect Transistors. , 2018, , 149-162.		1
161	Graphene-Based Gas Sensor Theoretical Framework. Advances in Computer and Electrical Engineering Book Series, 2017, , 117-149.	0.3	1
162	GAS Sensor Modelling and Simulation. Advances in Computer and Electrical Engineering Book Series, 2017, , 70-116.	0.3	1

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163	Graphene Based-Biosensor. Advances in Computer and Electrical Engineering Book Series, 2017, , 265-293.	0.3	1
164	Set Characteristics of Bipolar Graphene Oxide Based Memristor. Journal of Nanoelectronics and Optoelectronics, 2018, 13, 119-124.	0.5	1
165	Schemes for Single Electron Transistor Based on Double Quantum Dot Islands Utilizing a Graphene Nanoscroll, Carbon Nanotube and Fullerene. Molecules, 2022, 27, 301.	3.8	1
166	Contact Effect On Twisted Graphene Based Schottky Transistor. ECS Journal of Solid State Science and Technology, 2022, 11, 031005.	1.8	1
167	Ballistic carrier transport in a quasi-two-dimensional nanoscale field effect transistor (FET). , 2008, , .		0
168	The Ultimate Drift Velocity in Two Dimensional Quantum Limit. , 2008, , .		0
169	Analytical Study Of Drift Velocity In P-Type Silicon Nanowires. , 2009, , .		0
170	Extraction of SPICE Model for Double Gate Vertical MOSFET. , 2009, , .		0
171	Design and Analysis of Nanoscale Vertical MOSFET Using Oblique Rotating Implantation (ORI) Method with Reduced Parasitic Capacitance. , 2009, , .		0
172	FERMI ENERGY IN THE NON-PARABOLIC BAND STRUCTURE OF A CARBON NANOTUBE. , 2009, , .		0
173	Numerical Analysis of Vertical Double Gate MOSFETs (VDGM) With Dielectric Pocket (DP) Effects on Silicon Pillar for Nanoscale Transistor. , 2009, , .		0
174	Bilayer Graphene nanoribbon conductance model in parabolic band structure. , 2010, , .		0
175	Nonparabolic band structure effect on carrier transport in semiconducting graphene nanoribbons. , 2010, , .		0
176	Bilayer Graphene Nanoribbon Conductance Model in Parabolic Band Structure. , 2011, , .		0
177	DNA sensor model based on a carbon nanotube network in the degenerate limit. , 2012, , .		0
178	Temperature effect on quantum capacitance zig-zag graphene nanoscrolls (ZGNS) (16,0). , 2012, , .		0
179	The Effect of Effective Channel Length on a Silicon Nanowire Fin Field Effect Transistor. Journal of Computational and Theoretical Nanoscience, 2013, 10, 964-967.	0.4	0
180	Carrier velocity effect on carbon nanotube Schottky contact. Semiconductors, 2016, 50, 1056-1059.	0.5	0

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181	Electrical parameters retrieval of carbon nanoparticle-based metal semiconductor metal structure by standard methods and beta-ray-induced charge. <i>Radiation Effects and Defects in Solids</i> , 2018, 173, 367-376.	1.2	0
182	Electrical conductivity and Einstein relation modeling in phosphorene. <i>International Journal of Modern Physics B</i> , 2019, 33, 1950033.	2.0	0
183	Graphene band engineering for resistive random-access memory application. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050171.	2.0	0
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