

# Mohamad T Ahmadi

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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.

161  
papers

1,070  
citations

16  
h-index

21  
g-index

198  
ext. papers

1,253  
ext. citations

1.8  
avg, IF

4.55  
L-index

#	Paper	IF	Citations
161	Contact Effect On Twisted Graphene Based Schottky Transistor. <i>ECS Journal of Solid State Science and Technology</i> , <b>2022</b> , 11, 031005	2	1
160	Thermoelectric Effect on Linear Array of Graphene-Based Materials Including Fullerene, Twisted Graphene, and Graphene Nanoribbon. <i>ECS Journal of Solid State Science and Technology</i> , <b>2022</b> , 11, 051002	2	0
159	First Principal Simulation Study of Human Body Compatible Molecular Single Electron Transistors. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	
158	The current analysis of a single electron transistor based on double graphene nanoscroll island. <i>Solid State Communications</i> , <b>2021</b> , 327, 114234	1.6	0
157	Silicon Doping Effect on the Electronic Behavior of Graphene Nanoscrolls. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 2903-2910	1.9	0
156	Analytical modeling of graphene oxide based memristor. <i>Ain Shams Engineering Journal</i> , <b>2021</b> , 12, 1741-1748	1.7	1
155	Graphene Nanoparticle-Based, Nitrate Ion Sensor Characteristics. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
154	Monolayer Twisted Graphene-Based Schottky Transistor. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
153	Bandgap modulation of low-dimensional Graphyne-1 under uniform strain. <i>Journal of Computational Electronics</i> , <b>2020</b> , 19, 947-956	1.8	3
152	Arc discharge technique to fabricate nanocarbon gas sensing platform. <i>Superlattices and Microstructures</i> , <b>2020</b> , 141, 106479	2.8	
151	Carbon-Based Band Gap Engineering in the h-BN Analytical Modeling. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
150	An Analytical Conductance Model for Gas Detection Based on a Zigzag Carbon Nanotube Sensor. <i>Sensors</i> , <b>2020</b> , 20,	3.8	3
149	An Analytical Approach for Current Modeling in a Single Electron Transistor (SET) Utilizing Graphene Nanoscroll (GNS) as the Island. <i>ECS Journal of Solid State Science and Technology</i> , <b>2020</b> , 9, 071001	2	2
148	Graphene Nanoscroll Geometry Effect on Transistor Performance. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 544-550	1.9	7
147	Graphene band engineering for resistive random-access memory application. <i>International Journal of Modern Physics B</i> , <b>2020</b> , 34, 2050171	1.1	
146	Carbon Nanoparticle-Based Electro-Thermal Building Block. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 5117.6	1.7	
145	. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 3726-3732	4	7

144	A carrier velocity model for electrical detection of gas molecules. <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 644-653	3	1
143	The effects of a Stone-Wales defect on the performance of a graphene-nanoribbon-based Schottky diode. <i>Journal of Computational Electronics</i> , <b>2019</b> , 18, 802-812	1.8	3
142	Investigating the electrical characteristics of a single electron transistor utilizing graphene nanoribbon as the island. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 8007-8013	2.1	9
141	Electrical conductivity and Einstein relation modeling in phosphorene. <i>International Journal of Modern Physics B</i> , <b>2019</b> , 33, 1950033	1.1	
140	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> , <b>2019</b> , 8, M26-M29	2	3
139	Quantum conductance investigation on carbon nanotube-based antibiotic sensor. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 1641-1650	2.6	5
138	Effect of solution pH and adsorbent concentration on the sensing parameters of TGN-based electrochemical sensor. <i>IET Nanobiotechnology</i> , <b>2019</b> , 13, 584-592	2	0
137	Analytical modeling of phosphorene-based NO <sub>2</sub> gas sensor. <i>International Journal of Modern Physics B</i> , <b>2019</b> , 33, 1950143	1.1	1
136	The Geometry Variation Effect on Carbon Atom Wire for Nano-Electronic Applications. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2019</b> , 14, 1120-1125	1.3	5
135	Band Gap Modulation by Two-Dimensional h-BN Nanostructure. <i>Physics of the Solid State</i> , <b>2019</b> , 61, 2194-2199	2.99	3
134	The impact of vacancy defects on the performance of a single-electron transistor with a carbon nanotube island. <i>Journal of Computational Electronics</i> , <b>2019</b> , 18, 428-435	1.8	6
133	THE BAND ENERGY ENGINEERING ON HIGH EPOXY (OR HYDROXYL) CONTENT GRAPHENE OXIDE. <i>Surface Review and Letters</i> , <b>2019</b> , 26, 1850135	1.1	1
132	Performance analysis of one dimensional BC <sub>2</sub> N for nanoelectronics applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 102, 33-38	3	6
131	An analytical approach to model capacitance and resistance of capped carbon nanotube single electron transistor. <i>AEU - International Journal of Electronics and Communications</i> , <b>2018</b> , 90, 97-102	2.8	23
130	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> , <b>2018</b> , 173, 367-376	0.9	
129	Analysis and modeling of quantum capacitance on graphene single electron transistor. <i>International Journal of Modern Physics B</i> , <b>2018</b> , 32, 1850235	1.1	6
128	Carbon Nano-particle Synthesized by Pulsed Arc Discharge Method as a Light Emitting Device. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 4003-4009	1.9	5
127	Analysis of Co-Tunneling Current in Fullerene Single-Electron Transistor. <i>Brazilian Journal of Physics</i> , <b>2018</b> , 48, 406-410	1.2	5

126	Experimental and theoretical investigation of sensing parameters in carbon nanotube-based DNA sensor. <i>IET Nanobiotechnology</i> , <b>2018</b> , 12, 1125-1129	2	4
125	Fabrication of Carbon Nanoparticle Strand under Pulsed Arc Discharge. <i>Plasmonics</i> , <b>2018</b> , 13, 2377-2386	2.4	4
124	Analysis and Simulation of Coulomb Blockade and Coulomb Diamonds in Fullerene Single Electron Transistors. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2018</b> , 13, 138-143	1.3	10
123	An Analytical Approach to Model the Optical Properties of Carbon Nanotubes for Plasmonic Devices. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2018</b> , 13, 208-213	1.3	2
122	Graphene Nanoribbon Field Effect Transistors <b>2018</b> , 149-162		1
121	Carrier Transport, Current-Voltage Characteristics of BGN <b>2018</b> , 163-185		
120	Analytical modelling and simulation of gas adsorption effects on graphene nanoribbon electrical properties. <i>Molecular Simulation</i> , <b>2018</b> , 44, 551-557	2	5
119	Impact of Hydrogen Adsorption on the Performance of a Single Electron Transistor Utilizing Fullerene Quantum Dots. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, M191-M194	2	4
118	Phosphorene as H <sub>2</sub> S and CH <sub>4</sub> Gas Sensor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 216, 1800086	1.6	5
117	Single Electron Transistor Scheme Based on Multiple Quantum Dot Islands: Carbon Nanotube and Fullerene. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, M145-M152	2	12
116	Analysis and Modeling of Fullerene Single Electron Transistor Based on Quantum Dot Arrays at Room Temperature. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 4799-4806	1.9	11
115	Electrical Properties of MWCNT/HDPE Composite-Based MSM Structure Under Neutron Irradiation. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 2548-2555	1.9	6
114	Current Analysis and Modeling of Fullerene Single-Electron Transistor at Room Temperature. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 4294-4298	1.9	14
113	Gas adsorption effect on the graphene nanoribbon band structure and quantum capacitance. <i>Adsorption</i> , <b>2017</b> , 23, 767-777	2.6	12
112	Graphene Based Biosensor Model for Escherichia Coli Bacteria Detection. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 601-05	1.3	12
111	Analytical investigation on the electrooptical properties of graphene nanoscrolls for SPR-based sensor application. <i>Journal of Computational Electronics</i> , <b>2017</b> , 16, 787-795	1.8	5
110	Graphene/Graphene Oxide-Based Ultrasensitive Surface Plasmon Resonance Biosensor. <i>Plasmonics</i> , <b>2017</b> , 12, 1991-1997	2.4	18
109	Carrier relaxation time modelling of monolayer black phosphorene. <i>Micro and Nano Letters</i> , <b>2017</b> , 12, 758-762	0.9	2

108	Analytical prediction of carbon nanoscroll-based electrochemical glucose biosensor performance. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2017</b> , 97, 1024-1036	1.8	4
107	Band gap engineering of BC2N for nanoelectronic applications. <i>Superlattices and Microstructures</i> , <b>2017</b> , 112, 328-338	2.8	12
106	Analytical Modeling of Acoustic Phonon-Limited Mobility in Strained Graphene Nanoribbons. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 6553-6562	1.9	2
105	Investigating the Mobility of Trilayer Graphene Nanoribbon in Nanoscale FETs. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 6188-6194	1.9	3
104	The Effect of Molecular Adsorption on Electro-Optical Properties of Graphene-Based Sensors. <i>Plasmonics</i> , <b>2017</b> , 12, 1193-1198	2.4	5
103	Analytical study of the electronic properties of boron nitride nanosheet <b>2017</b> ,		1
102	Modeling Trilayer Graphene-Based DET Characteristics for a Nanoscale Sensor. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2017</b> , 19-38	0.3	2
101	Graphene-Based Gas Sensor Theoretical Framework. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2017</b> , 117-149	0.3	1
100	Graphene and CNT Field Effect Transistors Based Biosensor Models. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2017</b> , 294-333	0.3	2
99	GAS Sensor Modelling and Simulation. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2017</b> , 70-116	0.3	1
98	Fast Neuron Detection. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2017</b> , 395-422	0.3	
97	Surface Plasmon Resonance-Based Sensor Modeling. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2017</b> , 361-394	0.3	
96	Graphene Based-Biosensor. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2017</b> , 265-293	0.3	0
95	Carbon Materials Based Ion Sensitive Field Effect Transistor (ISFET). <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2017</b> , 334-360	0.3	
94	Modeling of Sensing Layer of Surface Acoustic-Wave-Based Gas Sensors. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2017</b> , 224-243	0.3	
93	Development of Gas Sensor Model for Detection of NO <sub>2</sub> Molecules Adsorbed on Defect-Free and Defective Graphene. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2017</b> , 208-223	0.3	
92	Strain effect on graphene nanoribbon carrier statistic in the presence of non-parabolic band structure. <i>Chinese Physics B</i> , <b>2016</b> , 25, 096802	1.2	1
91	Electrical Property Analytical Prediction on Archimedes Chiral Carbon Nanoscrolls. <i>Journal of Electronic Materials</i> , <b>2016</b> , 45, 5404-5411	1.9	8

90	Engineer-able optical properties of trilayer graphene nanoribbon. <i>Physica Scripta</i> , <b>2016</b> , 91, 035802	2.6	4
89	Influences of Sr-90 beta-ray irradiation on electrical characteristics of carbon nanoparticles. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 124510	2.5	7
88	Graphene embedded surface plasmon resonance based sensor prediction model. <i>Optical and Quantum Electronics</i> , <b>2016</b> , 48, 1	2.4	5
87	Modeling and simulation of graphene-oxide-based RRAM. <i>Journal of Computational Electronics</i> , <b>2016</b> , 15, 602-610	1.8	11
86	Carrier velocity effect on carbon nanotube Schottky contact. <i>Semiconductors</i> , <b>2016</b> , 50, 1056-1059	0.7	
85	Contact Effect on the Current-Voltage Characteristic of Graphene Nanoribbon Based Schottky Diode. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2015</b> , 12, 478-483	0.3	3
84	SWCNT-Based Biosensor Modelling for pH Detection. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-7	3.2	10
83	Development of solution-gated graphene transistor model for biosensors. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 71	5	24
82	Analytical modeling of glucose biosensors based on carbon nanotubes. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 33	5	38
81	Gas Concentration Effects on the Sensing Properties of Bilayer Graphene. <i>Plasmonics</i> , <b>2014</b> , 9, 987-992	2.4	11
80	Analytical prediction of liquid-gated graphene nanoscroll biosensor performance. <i>RSC Advances</i> , <b>2014</b> , 4, 16153	3.7	20
79	Conductance modulation of charged lipid bilayer using electrolyte-gated graphene-field effect transistor. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 371	5	8
78	Semi Analytical Modeling of Quantum Capacitance of Graphene-Based Ion Sensitive Field Effect Transistor. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2014</b> , 11, 596-600	0.3	3
77	Structural and Properties of Graphene Nanobelts Rolled Up Into Spiral by a Single Graphene Sheet. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2014</b> , 11, 601-606	0.3	6
76	An analytical approach to evaluate the performance of graphene and carbon nanotubes for NH <sub>3</sub> gas sensor applications. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 726-34	3	19
75	Bilayer Graphene Application on NO <sub>2</sub> Sensor Modelling. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-7	3.2	9
74	Carrier Statistics and Quantum Capacitance Models of Graphene Nanoscroll. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-6	3.2	11
73	Modeling of Nanodevices and Nanostructures. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-2	3.2	1

72	Analytical calculation of sensing parameters on carbon nanotube based gas sensors. <i>Sensors</i> , <b>2014</b> , 14, 5502-15	3.8	30
71	Quantum confinement effect on trilayer graphene nanoribbon carrier concentration. <i>Journal of Experimental Nanoscience</i> , <b>2014</b> , 9, 51-63	1.9	4
70	Current-Voltage modeling of graphene-based DNA sensor. <i>Neural Computing and Applications</i> , <b>2014</b> , 24, 85-89	4.8	10
69	The effect of concentration on gas sensor model based on graphene nanoribbon. <i>Neural Computing and Applications</i> , <b>2014</b> , 24, 143-146	4.8	10
68	A Unified Drain-Current Model of Silicon Nanowire Field-Effect Transistor (SiNWFET) for Performance Metric Evaluation. <i>Science of Advanced Materials</i> , <b>2014</b> , 6, 354-360	2.3	5
67	Development of Carbon Nanotube Based Biosensors Model for Detection of Single-Nucleotide Polymorphism. <i>Science of Advanced Materials</i> , <b>2014</b> , 6, 513-519	2.3	16
66	Carrier Velocity in High-Field Transport of Trilayer Graphene Nanoribbon Field Effect Transistor. <i>Science of Advanced Materials</i> , <b>2014</b> , 6, 633-639	2.3	4
65	Analytical Study of Electronic Structure in Archimedean Type-Spiral Zig-Zag Graphene Nanoscroll. <i>Current Nanoscience</i> , <b>2014</b> , 11, 87-94	1.4	3
64	Analytical modelling of monolayer graphene-based ion-sensitive FET to pH changes. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 173	5	25
63	Analytical modeling of trilayer graphene nanoribbon Schottky-barrier FET for high-speed switching applications. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 55	5	15
62	Effect of strain on doped graphene-based N/I/S junction with d-wave superconductivity. <i>Superlattices and Microstructures</i> , <b>2013</b> , 63, 58-69	2.8	2
61	Graphene Nanoribbon Based Gas Sensor. <i>Key Engineering Materials</i> , <b>2013</b> , 553, 7-11	0.4	18
60	QUANTUM CAPACITANCE EFFECT ON ZIG-ZAG GRAPHENE NANOSCROLLS (ZGNS) (16, 0). <i>Modern Physics Letters B</i> , <b>2013</b> , 27, 1350002	1.6	3
59	Schottky barrier lowering effect on graphene nanoribbon based schottky diode <b>2013</b> ,		1
58	Perpendicular Electric Field Effect on Bilayer Graphene Carrier Statistic. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2013</b> , 10, 1975-1978	0.3	8
57	Monolayer Graphene Based CO <sub>2</sub> Gas Sensor Analytical Model. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2013</b> , 10, 1301-1304	0.3	17
56	Graphene Nanoribbon Field Effect Transistor Logic Gates Performance Projection. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2013</b> , 10, 1164-1170	0.3	13
55	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> , <b>2013</b> , 10, 1305-1309	0.3	2



54	Geometry Effect on Graphene Nanoscrolls Band Gap. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2013</b> , 10, 581-586	0.3	2
53	The Effect of Bilayer Graphene Nanoribbon Geometry on Schottky-Barrier Diode Performance. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-8	3.2	1
52	Optimization of DNA Sensor Model Based Nanostructured Graphene Using Particle Swarm Optimization Technique. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-9	3.2	6
51	Capacitance Variation of Electrolyte-Gated Bilayer Graphene Based Transistors. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-5	3.2	2
50	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. <i>Journal of Semiconductors</i> , <b>2013</b> , 34, 062001	2.3	1
49	ENERGY QUANTIZATION ON THE CURRENT-VOLTAGE CHARACTERISTIC OF NANOSCALE TWO-DIMENSIONAL MOSFET. <i>International Journal of Modern Physics B</i> , <b>2013</b> , 27, 1350077	1.1	1
48	Carrier Motion Effect on Bilayer Graphene Nanoribbon Base Biosensor Model. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2013</b> , 10, 1338-1342	0.3	5
47	Performance of Bilayer Graphene Nanoribbon Schottky Diode in Comparison with Conventional Diodes. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2013</b> , 10, 323-327	0.3	9
46	Gas Concentration Effect on Channel Capacitance in Graphene Based Sensors. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2013</b> , 10, 2449-2452	0.3	10
45	Perpendicular Electric Field Effect on Electronic Properties of Bilayer Graphene. <i>Science of Advanced Materials</i> , <b>2013</b> , 5, 1954-1959	2.3	2
44	Analytical Modeling of Monolayer Graphene-based NO <sub>2</sub> Sensor. <i>Sensor Letters</i> , <b>2013</b> , 11, 270-275	0.9	16
43	Ionization coefficient of monolayer graphene nanoribbon. <i>Microelectronics Reliability</i> , <b>2012</b> , 52, 1396-1400		10
42	<b>2012</b> ,		1
41	Modeling of graphene nano-ribbon Schottky diodes in the parabolic band structure limit <b>2012</b> ,		3
40	Carrier concentration modeling of bilayer graphene <b>2012</b> ,		1
39	CHANNEL CONDUCTANCE OF ABA STACKING TRILAYER GRAPHENE NANORIBBON FIELD-EFFECT TRANSISTOR. <i>Modern Physics Letters B</i> , <b>2012</b> , 26, 1250047	1.6	10
38	Modelling and simulation of saturation region in double gate graphene nanoribbon transistors. <i>Semiconductors</i> , <b>2012</b> , 46, 126-129	0.7	8
37	Band energy effect on carrier velocity limit in graphene nanoribbon. <i>Journal of Experimental Nanoscience</i> , <b>2012</b> , 7, 62-73	1.9	4



36	Schottky Current in Carbon Nanotube-Metal Contact. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2012</b> , 9, 1554-1557	0.3	6
35	Effect of Graphene Nanoribbons Layers on Its Band Energy and the Electrical Properties. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2012</b> , 9, 2082-2085	0.3	
34	The Effect of Applied Voltage on the Carrier Effective Mass in ABA Trilayer Graphene Nanoribbon. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2012</b> , 9, 1618-1621	0.3	10
33	Theory of Ionization Mechanism in Graphene Nanoribbons. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2012</b> , 9, 2190-2192	0.3	6
32	Trilayer graphene nanoribbon carrier statistics in degenerate and non degenerate limits <b>2012</b> ,		2
31	Monolayer Graphene Nanoribbon Homo Junction Characteristics. <i>Science of Advanced Materials</i> , <b>2012</b> , 4, 753-756	2.3	9
30	Analytical Modeling of Graphene-Based DNA Sensor. <i>Science of Advanced Materials</i> , <b>2012</b> , 4, 1142-1147	2.3	20
29	A review on carbon-based materials as on-chip interconnects <b>2011</b> ,		1
28	Current-voltage modeling of Bilayer Graphene Nanoribbon Schottky Diode <b>2011</b> ,		1
27	Bilayer Graphene Nanoribbon Carrier Statistic in Degenerate and Non Degenerate Limit. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2011</b> , 8, 2029-2032	0.3	7
26	CARBON NANOTUBE CAPACITANCE MODEL IN DEGENERATE AND NONDEGENERATE REGIMES <b>2011</b> ,		2
25	DRIFT VELOCITY AND MOBILITY OF A GRAPHENE NANORIBBON IN A HIGH MAGNITUDE ELECTRIC FIELD <b>2011</b> ,		4
24	BILAYER GRAPHENE NANORIBBON CARRIER STATISTICS IN THE DEGENERATE REGIME <b>2011</b> ,		3
23	A model for length of saturation velocity region in double-gate Graphene nanoribbon transistors. <i>Microelectronics Reliability</i> , <b>2011</b> , 51, 2143-2146	1.2	15
22	EFFECTIVE MOBILITY MODEL OF GRAPHENE NANORIBBON IN PARABOLIC BAND ENERGY. <i>Modern Physics Letters B</i> , <b>2011</b> , 25, 739-745	1.6	7
21	Modeling of Quantum Capacitance in Graphene Nanoribbon <b>2011</b> ,		1
20	Monolayer graphene nanoribbon p-n junction <b>2011</b> ,		2
19	Ballistic Conductance Model of Bilayer Graphene Nanoribbon (BGN). <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2011</b> , 8, 1993-1998	0.3	10

18	LOW-FIELD MOBILITY MODEL ON PARABOLIC BAND ENERGY OF GRAPHENE NANORIBBON. <i>Modern Physics Letters B</i> , <b>2011</b> , 25, 281-290	1.6	4
17	Design and Analysis of a New Carbon Nanotube Full Adder Cell. <i>Journal of Nanomaterials</i> , <b>2011</b> , 2011, 1-6	3.2	11
16	Low-Dimensional Carrier Statistics in Nanostructures. <i>Current Nanoscience</i> , <b>2011</b> , 7, 235-239	1.4	6
15	Graphene Nanoribbon Conductance Model in Parabolic Band Structure. <i>Journal of Nanomaterials</i> , <b>2010</b> , 2010, 1-4	3.2	46
14	Modelling of Graphene Nanoribbon Fermi Energy. <i>Journal of Nanomaterials</i> , <b>2010</b> , 2010, 1-6	3.2	17
13	Carbon nanotube conductance model in parabolic band structure <b>2010</b> ,		9
12	Graphene Nanoribbon Fermi Energy Model in Parabolic Band Structure <b>2010</b> ,		2
11	Analytical modeling of high performance single-walled carbon nanotube field-effect-transistor. <i>Microelectronics Journal</i> , <b>2010</b> , 41, 579-584	1.8	14
10	The high-field drift velocity in degenerately-doped silicon nanowires. <i>International Journal of Nanotechnology</i> , <b>2009</b> , 6, 601	1.5	16
9	Current-voltage characteristics of a silicon nanowire transistor. <i>Microelectronics Journal</i> , <b>2009</b> , 40, 547-548	1.8	15
8	The drain velocity overshoot in an 80 nm metal-oxide-semiconductor field-effect transistor. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 074503	2.5	19
7	Analysis and simulation of carriers statistic for semiconducting single wall carbon nanotube. <i>Materials Research Innovations</i> , <b>2009</b> , 13, 211-213	1.9	2
6	Vertical Double Gate MOSFET For Nanoscale Device With Fully Depleted Feature <b>2009</b> ,		4
5	Ballistic Saturation Velocity of Quasi-2D Low-Dimensional Nanoscale Field Effect Transistor (FET) <b>2009</b> ,		1
4	Modelling of the current-voltage characteristics of a carbon nano tube field effect transistor <b>2008</b> ,		4
3	The Ultimate Ballistic Drift Velocity in Carbon Nanotubes. <i>Journal of Nanomaterials</i> , <b>2008</b> , 2008, 1-8	3.2	26
2	Formulation and simulation for electrical properties of a (5,3) Single Wall Carbon Nanotube <b>2008</b> ,		4
1	Carrier velocity in carbon nano tube field effect transistor <b>2008</b> ,		3

