

Mohamad T Ahmadi

List of Publications by Citations

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|--------------------|-------------------------|----------------|-----------------|
| 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 | Graphene Nanoribbon Conductance Model in Parabolic Band Structure. <i>Journal of Nanomaterials</i> , 2010 , 2010, 1-4 | 3.2 | 46 |
| 160 | Analytical modeling of glucose biosensors based on carbon nanotubes. <i>Nanoscale Research Letters</i> , 2014 , 9, 33 | 5 | 38 |
| 159 | Analytical calculation of sensing parameters on carbon nanotube based gas sensors. <i>Sensors</i> , 2014 , 14, 5502-15 | 3.8 | 30 |
| 158 | The Ultimate Ballistic Drift Velocity in Carbon Nanotubes. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-8 | 3.2 | 26 |
| 157 | Analytical modelling of monolayer graphene-based ion-sensitive FET to pH changes. <i>Nanoscale Research Letters</i> , 2013 , 8, 173 | 5 | 25 |
| 156 | Development of solution-gated graphene transistor model for biosensors. <i>Nanoscale Research Letters</i> , 2014 , 9, 71 | 5 | 24 |
| 155 | An analytical approach to model capacitance and resistance of capped carbon nanotube single electron transistor. <i>AEU - International Journal of Electronics and Communications</i> , 2018 , 90, 97-102 | 2.8 | 23 |
| 154 | Analytical prediction of liquid-gated graphene nanoscroll biosensor performance. <i>RSC Advances</i> , 2014 , 4, 16153 | 3.7 | 20 |
| 153 | Analytical Modeling of Graphene-Based DNA Sensor. <i>Science of Advanced Materials</i> , 2012 , 4, 1142-1147 | 2.3 | 20 |
| 152 | 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, 726-34 | 3 | 19 |
| 151 | The drain velocity overshoot in an 80 nm metal-oxide-semiconductor field-effect transistor. <i>Journal of Applied Physics</i> , 2009 , 105, 074503 | 2.5 | 19 |
| 150 | Graphene/Graphene Oxide-Based Ultrasensitive Surface Plasmon Resonance Biosensor. <i>Plasmonics</i> , 2017 , 12, 1991-1997 | 2.4 | 18 |
| 149 | Graphene Nanoribbon Based Gas Sensor. <i>Key Engineering Materials</i> , 2013 , 553, 7-11 | 0.4 | 18 |
| 148 | Monolayer Graphene Based CO ₂ Gas Sensor Analytical Model. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013 , 10, 1301-1304 | 0.3 | 17 |
| 147 | Modelling of Graphene Nanoribbon Fermi Energy. <i>Journal of Nanomaterials</i> , 2010 , 2010, 1-6 | 3.2 | 17 |
| 146 | The high-field drift velocity in degenerately-doped silicon nanowires. <i>International Journal of Nanotechnology</i> , 2009 , 6, 601 | 1.5 | 16 |
| 145 | Development of Carbon Nanotube Based Biosensors Model for Detection of Single-Nucleotide Polymorphism. <i>Science of Advanced Materials</i> , 2014 , 6, 513-519 | 2.3 | 16 |

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| 144 | Analytical Modeling of Monolayer Graphene-based NO ₂ Sensor. <i>Sensor Letters</i> , 2013 , 11, 270-275 | 0.9 | 16 |
| 143 | Analytical modeling of trilayer graphene nanoribbon Schottky-barrier FET for high-speed switching applications. <i>Nanoscale Research Letters</i> , 2013 , 8, 55 | 5 | 15 |
| 142 | A model for length of saturation velocity region in double-gate Graphene nanoribbon transistors. <i>Microelectronics Reliability</i> , 2011 , 51, 2143-2146 | 1.2 | 15 |
| 141 | Current-Voltage characteristics of a silicon nanowire transistor. <i>Microelectronics Journal</i> , 2009 , 40, 547-549 | 0.8 | 15 |
| 140 | Current Analysis and Modeling of Fullerene Single-Electron Transistor at Room Temperature. <i>Journal of Electronic Materials</i> , 2017 , 46, 4294-4298 | 1.9 | 14 |
| 139 | Analytical modeling of high performance single-walled carbon nanotube field-effect-transistor. <i>Microelectronics Journal</i> , 2010 , 41, 579-584 | 1.8 | 14 |
| 138 | Graphene Nanoribbon Field Effect Transistor Logic Gates Performance Projection. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013 , 10, 1164-1170 | 0.3 | 13 |
| 137 | Gas adsorption effect on the graphene nanoribbon band structure and quantum capacitance. <i>Adsorption</i> , 2017 , 23, 767-777 | 2.6 | 12 |
| 136 | Graphene Based Biosensor Model for Escherichia Coli Bacteria Detection. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 601-05 | 1.3 | 12 |
| 135 | Band gap engineering of BC ₂ N for nanoelectronic applications. <i>Superlattices and Microstructures</i> , 2017 , 112, 328-338 | 2.8 | 12 |
| 134 | Single Electron Transistor Scheme Based on Multiple Quantum Dot Islands: Carbon Nanotube and Fullerene. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, M145-M152 | 2 | 12 |
| 133 | Gas Concentration Effects on the Sensing Properties of Bilayer Graphene. <i>Plasmonics</i> , 2014 , 9, 987-992 | 2.4 | 11 |
| 132 | Carrier Statistics and Quantum Capacitance Models of Graphene Nanoscroll. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-6 | 3.2 | 11 |
| 131 | Design and Analysis of a New Carbon Nanotube Full Adder Cell. <i>Journal of Nanomaterials</i> , 2011 , 2011, 1-6 | 3.2 | 11 |
| 130 | Modeling and simulation of graphene-oxide-based RRAM. <i>Journal of Computational Electronics</i> , 2016 , 15, 602-610 | 1.8 | 11 |
| 129 | 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 | 1.9 | 11 |
| 128 | SWCNT-Based Biosensor Modelling for pH Detection. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-7 | 3.2 | 10 |
| 127 | Current-Voltage modeling of graphene-based DNA sensor. <i>Neural Computing and Applications</i> , 2014 , 24, 85-89 | 4.8 | 10 |

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|-----|---|-----|----|
| 126 | The effect of concentration on gas sensor model based on graphene nanoribbon. <i>Neural Computing and Applications</i> , 2014 , 24, 143-146 | 4.8 | 10 |
| 125 | Ionization coefficient of monolayer graphene nanoribbon. <i>Microelectronics Reliability</i> , 2012 , 52, 1396-1400 | 0.2 | 10 |
| 124 | CHANNEL CONDUCTANCE OF ABA STACKING TRILAYER GRAPHENE NANORIBBON FIELD-EFFECT TRANSISTOR. <i>Modern Physics Letters B</i> , 2012 , 26, 1250047 | 1.6 | 10 |
| 123 | Gas Concentration Effect on Channel Capacitance in Graphene Based Sensors. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013 , 10, 2449-2452 | 0.3 | 10 |
| 122 | Ballistic Conductance Model of Bilayer Graphene Nanoribbon (BGN). <i>Journal of Computational and Theoretical Nanoscience</i> , 2011 , 8, 1993-1998 | 0.3 | 10 |
| 121 | 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 | 0.3 | 10 |
| 120 | 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 | 1.3 | 10 |
| 119 | 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 | 2.1 | 9 |
| 118 | Bilayer Graphene Application on NO ₂ Sensor Modelling. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-7 | 3.2 | 9 |
| 117 | Performance of Bilayer Graphene Nanoribbon Schottky Diode in Comparison with Conventional Diodes. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013 , 10, 323-327 | 0.3 | 9 |
| 116 | Carbon nanotube conductance model in parabolic band structure 2010 , | | 9 |
| 115 | Monolayer Graphene Nanoribbon Homo Junction Characteristics. <i>Science of Advanced Materials</i> , 2012 , 4, 753-756 | 2.3 | 9 |
| 114 | Electrical Property Analytical Prediction on Archimedes Chiral Carbon Nanoscrolls. <i>Journal of Electronic Materials</i> , 2016 , 45, 5404-5411 | 1.9 | 8 |
| 113 | Conductance modulation of charged lipid bilayer using electrolyte-gated graphene-field effect transistor. <i>Nanoscale Research Letters</i> , 2014 , 9, 371 | 5 | 8 |
| 112 | Modelling and simulation of saturation region in double gate graphene nanoribbon transistors. <i>Semiconductors</i> , 2012 , 46, 126-129 | 0.7 | 8 |
| 111 | Perpendicular Electric Field Effect on Bilayer Graphene Carrier Statistic. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013 , 10, 1975-1978 | 0.3 | 8 |
| 110 | . <i>IEEE Sensors Journal</i> , 2019 , 19, 3726-3732 | 4 | 7 |
| 109 | Bilayer Graphene Nanoribbon Carrier Statistic in Degenerate and Non Degenerate Limit. <i>Journal of Computational and Theoretical Nanoscience</i> , 2011 , 8, 2029-2032 | 0.3 | 7 |

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| 108 | EFFECTIVE MOBILITY MODEL OF GRAPHENE NANORIBBON IN PARABOLIC BAND ENERGY. <i>Modern Physics Letters B</i> , 2011 , 25, 739-745 | 1.6 | 7 |
| 107 | Graphene Nanoscroll Geometry Effect on Transistor Performance. <i>Journal of Electronic Materials</i> , 2020 , 49, 544-550 | 1.9 | 7 |
| 106 | Influences of Sr-90 beta-ray irradiation on electrical characteristics of carbon nanoparticles. <i>Journal of Applied Physics</i> , 2016 , 119, 124510 | 2.5 | 7 |
| 105 | Electrical Properties of MWCNT/HDPE Composite-Based MSM Structure Under Neutron Irradiation. <i>Journal of Electronic Materials</i> , 2017 , 46, 2548-2555 | 1.9 | 6 |
| 104 | Performance analysis of one dimensional BC 2 N for nanoelectronics applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 102, 33-38 | 3 | 6 |
| 103 | Analysis and modeling of quantum capacitance on graphene single electron transistor. <i>International Journal of Modern Physics B</i> , 2018 , 32, 1850235 | 1.1 | 6 |
| 102 | Structural and Properties of Graphene Nanobelts Rolled Up Into Spiral by a Single Graphene Sheet. <i>Journal of Computational and Theoretical Nanoscience</i> , 2014 , 11, 601-606 | 0.3 | 6 |
| 101 | Optimization of DNA Sensor Model Based Nanostructured Graphene Using Particle Swarm Optimization Technique. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-9 | 3.2 | 6 |
| 100 | Schottky Current in Carbon Nanotube-Metal Contact. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012 , 9, 1554-1557 | 0.3 | 6 |
| 99 | Theory of Ionization Mechanism in Graphene Nanoribbons. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012 , 9, 2190-2192 | 0.3 | 6 |
| 98 | Low-Dimensional Carrier Statistics in Nanostructures. <i>Current Nanoscience</i> , 2011 , 7, 235-239 | 1.4 | 6 |
| 97 | 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 | 1.8 | 6 |
| 96 | Analytical investigation on the electrooptical properties of graphene nanoscrolls for SPR-based sensor application. <i>Journal of Computational Electronics</i> , 2017 , 16, 787-795 | 1.8 | 5 |
| 95 | Quantum conductance investigation on carbon nanotubeBased antibiotic sensor. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 1641-1650 | 2.6 | 5 |
| 94 | Carbon Nano-particle Synthesized by Pulsed Arc Discharge Method as a Light Emitting Device. <i>Journal of Electronic Materials</i> , 2018 , 47, 4003-4009 | 1.9 | 5 |
| 93 | Analysis of Co-Tunneling Current in Fullerene Single-Electron Transistor. <i>Brazilian Journal of Physics</i> , 2018 , 48, 406-410 | 1.2 | 5 |
| 92 | The Effect of Molecular Adsorption on Electro-Optical Properties of Graphene-Based Sensors. <i>Plasmonics</i> , 2017 , 12, 1193-1198 | 2.4 | 5 |
| 91 | Carrier Motion Effect on Bilayer Graphene Nanoribbon Base Biosensor Model. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013 , 10, 1338-1342 | 0.3 | 5 |

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| 90 | The Geometry Variation Effect on Carbon Atom Wire for Nano-Electronic Applications. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2019 , 14, 1120-1125 | 1.3 | 5 |
| 89 | A Unified Drain Current Model of Silicon Nanowire Field-Effect Transistor (SiNWFET) for Performance Metric Evaluation. <i>Science of Advanced Materials</i> , 2014 , 6, 354-360 | 2.3 | 5 |
| 88 | Graphene embedded surface plasmon resonance based sensor prediction model. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1 | 2.4 | 5 |
| 87 | Analytical modelling and simulation of gas adsorption effects on graphene nanoribbon electrical properties. <i>Molecular Simulation</i> , 2018 , 44, 551-557 | 2 | 5 |
| 86 | Phosphorene as H ₂ S and CH ₄ Gas Sensor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 216, 1800086 | 1.6 | 5 |
| 85 | Analytical prediction of carbon nanoscroll-based electrochemical glucose biosensor performance. <i>International Journal of Environmental Analytical Chemistry</i> , 2017 , 97, 1024-1036 | 1.8 | 4 |
| 84 | Engineer-able optical properties of trilayer graphene nanoribbon. <i>Physica Scripta</i> , 2016 , 91, 035802 | 2.6 | 4 |
| 83 | Experimental and theoretical investigation of sensing parameters in carbon nanotube-based DNA sensor. <i>IET Nanobiotechnology</i> , 2018 , 12, 1125-1129 | 2 | 4 |
| 82 | Fabrication of Carbon Nanoparticle Strand under Pulsed Arc Discharge. <i>Plasmonics</i> , 2018 , 13, 2377-2386 | 2.4 | 4 |
| 81 | Quantum confinement effect on trilayer graphene nanoribbon carrier concentration. <i>Journal of Experimental Nanoscience</i> , 2014 , 9, 51-63 | 1.9 | 4 |
| 80 | Band energy effect on carrier velocity limit in graphene nanoribbon. <i>Journal of Experimental Nanoscience</i> , 2012 , 7, 62-73 | 1.9 | 4 |
| 79 | DRIFT VELOCITY AND MOBILITY OF A GRAPHENE NANORIBBON IN A HIGH MAGNITUDE ELECTRIC FIELD 2011 , | | 4 |
| 78 | LOW-FIELD MOBILITY MODEL ON PARABOLIC BAND ENERGY OF GRAPHENE NANORIBBON. <i>Modern Physics Letters B</i> , 2011 , 25, 281-290 | 1.6 | 4 |
| 77 | Vertical Double Gate MOSFET For Nanoscale Device With Fully Depleted Feature 2009 , | | 4 |
| 76 | Modelling of the current-voltage characteristics of a carbon nano tube field effect transistor 2008 , | | 4 |
| 75 | Formulation and simulation for electrical properties of a (5,3) Single Wall Carbon Nanotube 2008 , | | 4 |
| 74 | Carrier Velocity in High-Field Transport of Trilayer Graphene Nanoribbon Field Effect Transistor. <i>Science of Advanced Materials</i> , 2014 , 6, 633-639 | 2.3 | 4 |
| 73 | 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> , 2018 , 7, M191-M194 | 2 | 4 |

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| 72 | The effects of a Stone-Wales defect on the performance of a graphene-nanoribbon-based Schottky diode. <i>Journal of Computational Electronics</i> , 2019 , 18, 802-812 | 1.8 | 3 |
| 71 | 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 | 2 | 3 |
| 70 | Contact Effect on the Current-Voltage Characteristic of Graphene Nanoribbon Based Schottky Diode. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015 , 12, 478-483 | 0.3 | 3 |
| 69 | Bandgap modulation of low-dimensional Graphyne-1 under uniform strain. <i>Journal of Computational Electronics</i> , 2020 , 19, 947-956 | 1.8 | 3 |
| 68 | An Analytical Conductance Model for Gas Detection Based on a Zigzag Carbon Nanotube Sensor. <i>Sensors</i> , 2020 , 20, | 3.8 | 3 |
| 67 | Semi Analytical Modeling of Quantum Capacitance of Graphene-Based Ion Sensitive Field Effect Transistor. <i>Journal of Computational and Theoretical Nanoscience</i> , 2014 , 11, 596-600 | 0.3 | 3 |
| 66 | Investigating the Mobility of Trilayer Graphene Nanoribbon in Nanoscale FETs. <i>Journal of Electronic Materials</i> , 2017 , 46, 6188-6194 | 1.9 | 3 |
| 65 | Modeling of graphene nano-ribbon Schottky diodes in the parabolic band structure limit 2012 , | | 3 |
| 64 | QUANTUM CAPACITANCE EFFECT ON ZIG-ZAG GRAPHENE NANOSCROLLS (ZGNS) (16, 0). <i>Modern Physics Letters B</i> , 2013 , 27, 1350002 | 1.6 | 3 |
| 63 | BILAYER GRAPHENE NANORIBBON CARRIER STATISTICS IN THE DEGENERATE REGIME 2011 , | | 3 |
| 62 | Carrier velocity in carbon nano tube field effect transistor 2008 , | | 3 |
| 61 | Analytical Study of Electronic Structure in Archimedean Type-Spiral Zig-Zag Graphene Nanoscroll. <i>Current Nanoscience</i> , 2014 , 11, 87-94 | 1.4 | 3 |
| 60 | Band Gap Modulation by Two-Dimensional h-BN Nanostructure. <i>Physics of the Solid State</i> , 2019 , 61, 2194-2199 | 4.28 | 3 |
| 59 | Graphene Nanoparticle-Based, Nitrate Ion Sensor Characteristics. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 3 |
| 58 | Carrier relaxation time modelling of monolayer black phosphorene. <i>Micro and Nano Letters</i> , 2017 , 12, 758-762 | 0.9 | 2 |
| 57 | Carbon-Based Band Gap Engineering in the h-BN Analytical Modeling. <i>Materials</i> , 2020 , 13, | 3.5 | 2 |
| 56 | Effect of strain on doped graphene-based N/I/S junction with d-wave superconductivity. <i>Superlattices and Microstructures</i> , 2013 , 63, 58-69 | 2.8 | 2 |
| 55 | Analytical Modeling of Acoustic Phonon-Limited Mobility in Strained Graphene Nanoribbons. <i>Journal of Electronic Materials</i> , 2017 , 46, 6553-6562 | 1.9 | 2 |

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| 54 | 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 | 0.3 | 2 |
| 53 | Geometry Effect on Graphene Nanoscrolls Band Gap. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013 , 10, 581-586 | 0.3 | 2 |
| 52 | Capacitance Variation of Electrolyte-Gated Bilayer Graphene Based Transistors. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-5 | 3.2 | 2 |
| 51 | CARBON NANOTUBE CAPACITANCE MODEL IN DEGENERATE AND NONDEGENERATE REGIMES 2011 , | | 2 |
| 50 | Graphene Nanoribbon Fermi Energy Model in Parabolic Band Structure 2010 , | | 2 |
| 49 | Monolayer graphene nanoribbon p-n junction 2011 , | | 2 |
| 48 | Trilayer graphene nanoribbon carrier statistics in degenerate and non degenerate limits 2012 , | | 2 |
| 47 | Analysis and simulation of carriers statistic for semiconducting single wall carbon nanotube. <i>Materials Research Innovations</i> , 2009 , 13, 211-213 | 1.9 | 2 |
| 46 | 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> , 2020 , 9, 071001 | 2 | 2 |
| 45 | An Analytical Approach to Model the Optical Properties of Carbon Nanotubes for Plasmonic Devices. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2018 , 13, 208-213 | 1.3 | 2 |
| 44 | Perpendicular Electric Field Effect on Electronic Properties of Bilayer Graphene. <i>Science of Advanced Materials</i> , 2013 , 5, 1954-1959 | 2.3 | 2 |
| 43 | Modeling Trilayer Graphene-Based DET Characteristics for a Nanoscale Sensor. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2017 , 19-38 | 0.3 | 2 |
| 42 | Graphene and CNT Field Effect Transistors Based Biosensor Models. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2017 , 294-333 | 0.3 | 2 |
| 41 | Monolayer Twisted Graphene-Based Schottky Transistor. <i>Materials</i> , 2021 , 14, | 3.5 | 2 |
| 40 | A carrier velocity model for electrical detection of gas molecules. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 644-653 | 3 | 1 |
| 39 | Strain effect on graphene nanoribbon carrier statistic in the presence of non-parabolic band structure. <i>Chinese Physics B</i> , 2016 , 25, 096802 | 1.2 | 1 |
| 38 | Analytical modeling of phosphorene-based NO ₂ gas sensor. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1950143 | 1.1 | 1 |
| 37 | Analytical study of the electronic properties of boron nitride nanosheet 2017 , | | 1 |

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| 36 | Modeling of Nanodevices and Nanostructures. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-2 | 3.2 | 1 |
| 35 | 2012 , | | 1 |
| 34 | Carrier concentration modeling of bilayer graphene 2012 , | | 1 |
| 33 | Schottky barrier lowering effect on graphene nanoribbon based schottky diode 2013 , | | 1 |
| 32 | The Effect of Bilayer Graphene Nanoribbon Geometry on Schottky-Barrier Diode Performance. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-8 | 3.2 | 1 |
| 31 | The impact of germanium in strained Si/relaxed Si _{1-x} Ge _x on carrier performance in non-degenerate and degenerate regimes. <i>Journal of Semiconductors</i> , 2013 , 34, 062001 | 2.3 | 1 |
| 30 | ENERGY QUANTIZATION ON THE CURRENT-VOLTAGE CHARACTERISTIC OF NANOSCALE TWO-DIMENSIONAL MOSFET. <i>International Journal of Modern Physics B</i> , 2013 , 27, 1350077 | 1.1 | 1 |
| 29 | A review on carbon-based materials as on-chip interconnects 2011 , | | 1 |
| 28 | Current-voltage modeling of Bilayer Graphene Nanoribbon Schottky Diode 2011 , | | 1 |
| 27 | Modeling of Quantum Capacitance in Graphene Nanoribbon 2011 , | | 1 |
| 26 | Ballistic Saturation Velocity of Quasi-2D Low-Dimensional Nanoscale Field Effect Transistor (FET) 2009 , | | 1 |
| 25 | Graphene Nanoribbon Field Effect Transistors 2018 , 149-162 | | 1 |
| 24 | Graphene-Based Gas Sensor Theoretical Framework. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2017 , 117-149 | 0.3 | 1 |
| 23 | GAS Sensor Modelling and Simulation. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2017 , 70-116 | 0.3 | 1 |
| 22 | THE BAND ENERGY ENGINEERING ON HIGH EPOXY (OR HYDROXYL) CONTENT GRAPHENE OXIDE. <i>Surface Review and Letters</i> , 2019 , 26, 1850135 | 1.1 | 1 |
| 21 | Analytical modeling of graphene oxide based memristor. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 1741-1748 | 1.4 | 1 |
| 20 | Contact Effect On Twisted Graphene Based Schottky Transistor. <i>ECS Journal of Solid State Science and Technology</i> , 2022 , 11, 031005 | 2 | 1 |
| 19 | Effect of solution pH and adsorbent concentration on the sensing parameters of TGN-based electrochemical sensor. <i>IET Nanobiotechnology</i> , 2019 , 13, 584-592 | 2 | 0 |

- 18 Graphene Based-Biosensor. *Advances in Computer and Electrical Engineering Book Series*, **2017**, 265-293 0.3 0
- 17 The current analysis of a single electron transistor based on double graphene nanoscroll island. *Solid State Communications*, **2021**, 327, 114234 1.6 0
- 16 Silicon Doping Effect on the Electronic Behavior of Graphene Nanoscrolls. *Journal of Electronic Materials*, **2021**, 50, 2903-2910 1.9 0
- 15 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 2 0
- 14 Electrical conductivity and Einstein relation modeling in phosphorene. *International Journal of Modern Physics B*, **2019**, 33, 1950033 1.1
- 13 Arc discharge technique to fabricate nanocarbon gas sensing platform. *Superlattices and Microstructures*, **2020**, 141, 106479 2.8
- 12 Electrical parameters retrieval of carbon nanoparticle-based metal semiconductor metal structure by standard methods and beta-ray-induced charge. *Radiation Effects and Defects in Solids*, **2018**, 173, 367-376 0.9
- 11 Effect of Graphene Nanoribbons Layers on Its Band Energy and the Electrical Properties. *Journal of Computational and Theoretical Nanoscience*, **2012**, 9, 2082-2085 0.3
- 10 First Principal Simulation Study of Human Body Compatible Molecular Single Electron Transistors. *IEEE Access*, **2021**, 1-1 3.5
- 9 Carrier Transport, Current-Voltage Characteristics of BGN **2018**, 163-185
- 8 Fast Neuron Detection. *Advances in Computer and Electrical Engineering Book Series*, **2017**, 395-422 0.3
- 7 Surface Plasmon Resonance-Based Sensor Modeling. *Advances in Computer and Electrical Engineering Book Series*, **2017**, 361-394 0.3
- 6 Carbon Materials Based Ion Sensitive Field Effect Transistor (ISFET). *Advances in Computer and Electrical Engineering Book Series*, **2017**, 334-360 0.3
- 5 Modeling of Sensing Layer of Surface Acoustic-Wave-Based Gas Sensors. *Advances in Computer and Electrical Engineering Book Series*, **2017**, 224-243 0.3
- 4 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 0.3
- 3 Graphene band engineering for resistive random-access memory application. *International Journal of Modern Physics B*, **2020**, 34, 2050171 1.1
- 2 Carbon Nanoparticle-Based Electro-Thermal Building Block. *Applied Sciences (Switzerland)*, **2020**, 10, 5117.6
- 1 Carrier velocity effect on carbon nanotube Schottky contact. *Semiconductors*, **2016**, 50, 1056-1059 0.7

