

# Morteza Fathipour

## List of Publications by Citations

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59  
papers

510  
citations

11  
h-index

20  
g-index

76  
ext. papers

605  
ext. citations

2.4  
avg, IF

4.33  
L-index

#	Paper	IF	Citations
59	A Numerical Study of Line-Edge Roughness Scattering in Graphene Nanoribbons. <i>IEEE Transactions on Electron Devices</i> , <b>2012</b> , 59, 433-440	2.9	53
58	A first-principles study on the effect of biaxial strain on the ultimate performance of monolayer MoS <sub>2</sub> -based double gate field effect transistor. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 163708	2.5	47
57	Improvement of electrical performance in junctionless nanowire TFET using hetero-gate-dielectric. <i>Materials Science in Semiconductor Processing</i> , <b>2017</b> , 63, 142-152	4.3	41
56	A New Partial-SOI LDMOSFET With Modified Electric Field for Breakdown Voltage Improvement. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2009</b> , 9, 449-453	1.6	39
55	An Analytical Model for Line-Edge Roughness Limited Mobility of Graphene Nanoribbons. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 3725-3735	2.9	28
54	Tuning electronic, magnetic, and transport properties of blue phosphorene by substitutional doping: a first-principles study. <i>Journal of Computational Electronics</i> , <b>2018</b> , 17, 499-513	1.8	26
53	Optical properties of armchair graphene nanoribbons embedded in hexagonal boron nitride lattices. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 093512	2.5	20
52	Effect of tip mass on frequency response and sensitivity of AFM cantilever in liquid. <i>Micron</i> , <b>2015</b> , 70, 50-4	2.3	16
51	Tunable Bandgap in Bilayer Armchair Graphene Nanoribbons: Concurrent Influence of Electric Field and Uniaxial Strain. <i>IEEE Transactions on Electron Devices</i> , <b>2013</b> , 60, 2464-2470	2.9	14
50	A single-gate SOI nanosheet junctionless transistor at 10-nm gate length: design guidelines and comparison with the conventional SOI FinFET. <i>Journal of Computational Electronics</i> , <b>2020</b> , 19, 631-639	1.8	13
49	Negative Capacitance Double-Gate Junctionless FETs: A Charge-Based Modeling Investigation of Swing, Overdrive and Short Channel Effect. <i>IEEE Journal of the Electron Devices Society</i> , <b>2020</b> , 8, 939-947 <sup>2.3</sup>	2.3	12
48	Numerical Study of Graphene Superlattice-Based Photodetectors. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 593-600	2.9	11
47	Modeling Interface Charge Traps in Junctionless FETs, Including Temperature Effects. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 4653-4659	2.9	11
46	SILICON ON RAISED INSULATOR FIELD EFFECT DIODE (SORI-FED) FOR ALLEVIATING SCALING PROBLEM IN FED. <i>International Journal of Modern Physics B</i> , <b>2014</b> , 28, 1450038	1.1	11
45	Adsorption characteristics of epigenetically modified DNA nucleobases on single-layer MoS <sub>2</sub> : A first-principles study. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 134501	2.5	11
44	An Analytical Drain Current Model for the Cylindrical Channel Gate-All-Around Heterojunction Tunnel FETs. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 3646-3651	2.9	10
43	A comparative study of NEGF and DDMS models in the GAA silicon nanowire transistor. <i>International Journal of Electronics</i> , <b>2012</b> , 99, 1299-1307	1.2	10

42	Unravelling the physisorption characteristics of H <sub>2</sub> S molecule on biaxially strained single-layer MoS <sub>2</sub> . <i>Nanoscale Advances</i> , <b>2019</b> , 1, 3452-3462	5.1	8
41	Stable, low power and high performance SRAM based on CNFET <b>2009</b> ,		8
40	A Numerical Analysis of Electronic and Optical Properties of the Zigzag MoS <sub>2</sub> Nanoribbon Under Uniaxial Strain. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 1988-1994	2.9	7
39	Design and analysis of hairpin piezoresistive pressure sensor with improved linearity using square and circular diaphragms. <i>Micro and Nano Letters</i> , <b>2018</b> , 13, 1046-1051	0.9	7
38	A comparison study of the effects of supply voltage and temperature on the stability and performance of CNFET and nanoscale Si-MOSFET SRAMs <b>2009</b> ,		7
37	Cell properties assessment using optimized dielectrophoresis-based cell stretching and lumped mechanical modeling. <i>Scientific Reports</i> , <b>2021</b> , 11, 2341	4.9	7
36	Analytical models of approximations for wave functions and energy dispersion in zigzag graphene nanoribbons. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 074318	2.5	6
35	Behavior of the dielectric function of monolayer (hbox {MoS}_{2}) under Uniaxial Strain. <i>Journal of Computational Electronics</i> , <b>2016</b> , 15, 1388-1392	1.8	6
34	Analysis of power gating in different hierarchical levels of 2MB cache, considering variation. <i>International Journal of Electronics</i> , <b>2015</b> , 102, 1594-1608	1.2	5
33	Asymmetric junctionless nanowire TFET with built-in (n <sup>+</sup> ) source pocket emphasizing on energy band modification. <i>Journal of Computational Electronics</i> , <b>2016</b> , 15, 1297-1307	1.8	5
32	Dielectrophoresis-based microfluidic platform to sort micro-particles in continuous flow. <i>Microsystem Technologies</i> , <b>2020</b> , 26, 751-763	1.7	5
31	Designing a magnetic inductive micro-electrode for virus monitoring: modelling and feasibility for hepatitis B virus. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 463	5.8	5
30	Analytical and numerical evaluation of electron-injection detector optimized for SWIR photon detection. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 084501	2.5	4
29	Fabrication of Ag-modified nanocone frustum arrays with controlled shape as active substrates for surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , <b>2019</b> , 50, 1416-1428	2.3	4
28	A new source heterojunction strained channel structure for ballistic gate all around nanowire transistor. <i>Journal of Computational Electronics</i> , <b>2014</b> , 13, 170-179	1.8	4
27	Band structure effect on the electron current oscillation in ultra-scaled GaSb Schottky MOSFET: tight-binding approach. <i>Journal of Computational Electronics</i> , <b>2014</b> , 13, 375-382	1.8	4
26	A novel nanoscale tunnel FET structure for increasing on/off current ratio <b>2008</b> ,		4
25	A novel numerical modeling paradigm for bio particle tracing in non-inertial microfluidics devices. <i>Microsystem Technologies</i> , <b>2019</b> , 25, 3703-3711	1.7	4

24	A first-principles study on DNA sequencing using graphene quantum dot. <i>European Physical Journal B</i> , <b>2018</b> , 91, 1	1.2	4
23	Efficient paradigm to enhance particle separation in deterministic lateral displacement arrays. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1	1.8	3
22	Semiconducting Phase and Anisotropic Properties in Borophene via Chemical Surface Functionalization. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 5807-5816	3.8	3
21	An air-breathing microfluidic fuel cell with a finny anode. <i>Russian Journal of Electrochemistry</i> , <b>2014</b> , 50, 162-169	1.2	3
20	Design of an ultra-low power 32-bit adder operating at subthreshold voltages in 45-nm FinFET <b>2013</b> ,		3
19	Effect of Tip Mass on Modal Flexural Sensitivity of Rectangular AFM Cantilevers to Surface Stiffness Variations. <i>Arabian Journal for Science and Engineering</i> , <b>2014</b> , 39, 1393-1397		2
18	Multi-objective optimization of microfluidic fuel cell. <i>Russian Journal of Electrochemistry</i> , <b>2014</b> , 50, 561-568		2
17	Using low-k oxide for reduction of leakage current in Double Gate Tunnel FET <b>2009</b> ,		2
16	Investigation of vertical scaling on breakdown voltage and presentation of analytical model for electric field distribution in SOI RESURF LDMOSFETs <b>2009</b> ,		2
15	Asymmetric gate oxide thickness technology for reduction of Gate Induced Drain Leakage current in nanoscale single gate SOI MOSFET. <i>Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on</i> , <b>2008</b> ,		2
14	The effect of structural defects on the electron transport of MoS <sub>2</sub> nanoribbons based on density functional theory. <i>Journal of Theoretical and Applied Physics</i> , <b>2019</b> , 13, 55-62	1.4	1
13	Performance assessment of nanoscale Schottky MOSFET as resonant tunnelling device: Non-equilibrium Green's function formalism <b>2013</b> , 81, 511-520		1
12	A novel 4H-SiC UMOSFET_ACCUFET with large blocking voltage <b>2009</b> ,		1
11	Design of a feedforward controller for AFM nanopositioning based on neural network control theory <b>2009</b> ,		1
10	A novel structure for improve the Ion/Ioff ratio in nano-scale double gate source-heterojunction-MOS-transistor <b>2009</b> ,		1
9	A Novel impact Ionization MOS (I-MOS) structure using a silicon-germanium/silicon heterostructure channel <b>2008</b> ,		1
8	A novel 6H-SiC UMOSFET_ACCUFET with low specific on-resistance and peak electric field. <i>Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on</i> , <b>2008</b> ,		1
7	Design of a hybrid closed loop control system for a MEMS accelerometer using backstepping principle <b>2007</b> ,		1

6	A comparative study on the application of single-layer MoS <sub>2</sub> and WS <sub>2</sub> for probing methylated and mutated nucleobases: a vdW-DFT study <i>Applied Surface Science</i> , <b>2020</b> , 501, 143892	6.7	1
5	Near-room-temperature spin caloritronics in a magnetized and defective zigzag MoS <sub>2</sub> nanoribbon. <i>Journal of Computational Electronics</i> , <b>2020</b> , 19, 137-146	1.8	0
4	Effect of electrolyte concentration and symmetry on the heterogeneous surface charge in an electrically gated nanochannel. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	
3	ON THE ROBUSTNESS OF MAGNETISM IN ZIGZAG GRAPHENE NANORIBBONS. <i>Modern Physics Letters B</i> , <b>2013</b> , 27, 1350111	1.6	
2	Magneto-induced tunability of thermo-spin current in deformed zigzag graphene nanoribbons. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 234305	2.5	
1	A Computational Study on the Electronic Properties of Armchair Graphene Nanoribbons Confined by Boron Nitride. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 035101	1.4	