

Morteza Fathipour

List of Publications by Year in Descending Order

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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.

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	Cell properties assessment using optimized dielectrophoresis-based cell stretching and lumped mechanical modeling. <i>Scientific Reports</i> , 2021 , 11, 2341	4.9	7
58	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> , 2020 , 19, 631-639	1.8	13
57	Effect of electrolyte concentration and symmetry on the heterogeneous surface charge in an electrically gated nanochannel. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	
56	Semiconducting Phase and Anisotropic Properties in Borophene via Chemical Surface Functionalization. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5807-5816	3.8	3
55	Dielectrophoresis-based microfluidic platform to sort micro-particles in continuous flow. <i>Microsystem Technologies</i> , 2020 , 26, 751-763	1.7	5
54	A comparative study on the application of single-layer MoS ₂ and WS ₂ for probing methylated and mutated nucleobases: a vdW-DFT study. <i>Applied Surface Science</i> , 2020 , 501, 143892	6.7	1
53	Near-room-temperature spin caloritronics in a magnetized and defective zigzag MoS ₂ nanoribbon. <i>Journal of Computational Electronics</i> , 2020 , 19, 137-146	1.8	0
52	Designing a magnetic inductive micro-electrode for virus monitoring: modelling and feasibility for hepatitis B virus. <i>Mikrochimica Acta</i> , 2020 , 187, 463	5.8	5
51	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> , 2020 , 8, 939-947	2.3	12
50	Efficient paradigm to enhance particle separation in deterministic lateral displacement arrays. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	3
49	The effect of structural defects on the electron transport of MoS ₂ nanoribbons based on density functional theory. <i>Journal of Theoretical and Applied Physics</i> , 2019 , 13, 55-62	1.4	1
48	Unravelling the physisorption characteristics of H ₂ S molecule on biaxially strained single-layer MoS ₂ . <i>Nanoscale Advances</i> , 2019 , 1, 3452-3462	5.1	8
47	Fabrication of Ag-modified nanocone frustum arrays with controlled shape as active substrates for surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2019 , 50, 1416-1428	2.3	4
46	An Analytical Drain Current Model for the Cylindrical Channel Gate-All-Around Heterojunction Tunnel FETs. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 3646-3651	2.9	10
45	Modeling Interface Charge Traps in Junctionless FETs, Including Temperature Effects. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 4653-4659	2.9	11
44	A novel numerical modeling paradigm for bio particle tracing in non-inertial microfluidics devices. <i>Microsystem Technologies</i> , 2019 , 25, 3703-3711	1.7	4
43	Tuning electronic, magnetic, and transport properties of blue phosphorene by substitutional doping: a first-principles study. <i>Journal of Computational Electronics</i> , 2018 , 17, 499-513	1.8	26

42	A Numerical Analysis of Electronic and Optical Properties of the Zigzag MoS ₂ Nanoribbon Under Uniaxial Strain. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 1988-1994	2.9	7
41	Design and analysis of hairpin piezoresistive pressure sensor with improved linearity using square and circular diaphragms. <i>Micro and Nano Letters</i> , 2018 , 13, 1046-1051	0.9	7
40	Adsorption characteristics of epigenetically modified DNA nucleobases on single-layer MoS ₂ : A first-principles study. <i>Journal of Applied Physics</i> , 2018 , 124, 134501	2.5	11
39	A first-principles study on DNA sequencing using graphene quantum dot. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	4
38	Analytical and numerical evaluation of electron-injection detector optimized for SWIR photon detection. <i>Journal of Applied Physics</i> , 2017 , 121, 084501	2.5	4
37	Improvement of electrical performance in junctionless nanowire TFET using hetero-gate-dielectric. <i>Materials Science in Semiconductor Processing</i> , 2017 , 63, 142-152	4.3	41
36	Asymmetric junctionless nanowire TFET with built-in $\{n\}^{+}$ source pocket emphasizing on energy band modification. <i>Journal of Computational Electronics</i> , 2016 , 15, 1297-1307	1.8	5
35	Behavior of the dielectric function of monolayer (hbox {MoS}_{2}) under Uniaxial Strain. <i>Journal of Computational Electronics</i> , 2016 , 15, 1388-1392	1.8	6
34	Numerical Study of Graphene Superlattice-Based Photodetectors. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 593-600	2.9	11
33	Analysis of power gating in different hierarchical levels of 2MB cache, considering variation. <i>International Journal of Electronics</i> , 2015 , 102, 1594-1608	1.2	5
32	Magneto-induced tunability of thermo-spin current in deformed zigzag graphene nanoribbons. <i>Journal of Applied Physics</i> , 2015 , 118, 234305	2.5	
31	Effect of tip mass on frequency response and sensitivity of AFM cantilever in liquid. <i>Micron</i> , 2015 , 70, 50-4	2.3	16
30	An air-breathing microfluidic fuel cell with a finny anode. <i>Russian Journal of Electrochemistry</i> , 2014 , 50, 162-169	1.2	3
29	A new source heterojunction strained channel structure for ballistic gate all around nanowire transistor. <i>Journal of Computational Electronics</i> , 2014 , 13, 170-179	1.8	4
28	Effect of Tip Mass on Modal Flexural Sensitivity of Rectangular AFM Cantilevers to Surface Stiffness Variations. <i>Arabian Journal for Science and Engineering</i> , 2014 , 39, 1393-1397		2
27	Multi-objective optimization of microfluidic fuel cell. <i>Russian Journal of Electrochemistry</i> , 2014 , 50, 561-568		2
26	SILICON ON RAISED INSULATOR FIELD EFFECT DIODE (SORI-FED) FOR ALLEVIATING SCALING PROBLEM IN FED. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1450038	1.1	11
25	Band structure effect on the electron current oscillation in ultra-scaled GaSb Schottky MOSFET: tight-binding approach. <i>Journal of Computational Electronics</i> , 2014 , 13, 375-382	1.8	4

24	Tunable Bandgap in Bilayer Armchair Graphene Nanoribbons: Concurrent Influence of Electric Field and Uniaxial Strain. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 2464-2470	2.9	14
23	Performance assessment of nanoscale Schottky MOSFET as resonant tunnelling device: Non-equilibrium Green's function formalism 2013 , 81, 511-520		1
22	ON THE ROBUSTNESS OF MAGNETISM IN ZIGZAG GRAPHENE NANORIBBONS. <i>Modern Physics Letters B</i> , 2013 , 27, 1350111	1.6	
21	A first-principles study on the effect of biaxial strain on the ultimate performance of monolayer MoS ₂ -based double gate field effect transistor. <i>Journal of Applied Physics</i> , 2013 , 113, 163708	2.5	47
20	Design of an ultra-low power 32-bit adder operating at subthreshold voltages in 45-nm FinFET 2013 ,		3
19	A Numerical Study of Line-Edge Roughness Scattering in Graphene Nanoribbons. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 433-440	2.9	53
18	A Computational Study on the Electronic Properties of Armchair Graphene Nanoribbons Confined by Boron Nitride. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 035101	1.4	
17	A comparative study of NEGF and DDMS models in the GAA silicon nanowire transistor. <i>International Journal of Electronics</i> , 2012 , 99, 1299-1307	1.2	10
16	Analytical models of approximations for wave functions and energy dispersion in zigzag graphene nanoribbons. <i>Journal of Applied Physics</i> , 2012 , 111, 074318	2.5	6
15	Optical properties of armchair graphene nanoribbons embedded in hexagonal boron nitride lattices. <i>Journal of Applied Physics</i> , 2012 , 111, 093512	2.5	20
14	An Analytical Model for Line-Edge Roughness Limited Mobility of Graphene Nanoribbons. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 3725-3735	2.9	28
13	A comparison study of the effects of supply voltage and temperature on the stability and performance of CNFET and nanoscale Si-MOSFET SRAMs 2009 ,		7
12	Stable, low power and high performance SRAM based on CNFET 2009 ,		8
11	A novel 4H-SiC UMOSFET_ACCUFET with large blocking voltage 2009 ,		1
10	Design of a feedforward controller for AFM nanopositioning based on neural network control theory 2009 ,		1
9	A novel structure for improve the Ion/Ioff ratio in nano-scale double gate source-heterojunction-MOS-transistor 2009 ,		1
8	Using low-k oxide for reduction of leakage current in Double Gate Tunnel FET 2009 ,		2
7	A New Partial-SOI LDMOSFET With Modified Electric Field for Breakdown Voltage Improvement. <i>IEEE Transactions on Device and Materials Reliability</i> , 2009 , 9, 449-453	1.6	39

6	Investigation of vertical scaling on breakdown voltage and presentation of analytical model for electric field distribution in SOI RESURF LDMOSFETs 2009 ,	2
5	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, 2008</i> ,	2
4	A Novel impact Ionization MOS (I-MOS) structure using a silicon-germanium/silicon heterostructure channel 2008 ,	1
3	A novel nanoscale tunnel FET structure for increasing on/off current ratio 2008 ,	4
2	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, 2008</i> ,	1
1	Design of a hybrid closed loop control system for a MEMS accelerometer using backstepping principle 2007 ,	1