

Edris Faizabadi

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57
papers

283
citations

9
h-index

12
g-index

68
ext. papers

353
ext. citations

2.3
avg, IF

4.13
L-index

#	Paper	IF	Citations
57	Tunneling time and Hartman effect in a ferromagnetic graphene superlattice. <i>AIP Advances</i> , 2012 , 2, 012123	1.5	18
56	Spin transport and wavevector-dependent spin filtering through magnetic graphene superlattice. <i>Solid State Communications</i> , 2014 , 179, 48-53	1.6	16
55	Rashba spin-orbit effect on tunneling time in graphene superlattice. <i>Journal of Applied Physics</i> , 2012 , 111, 093724	2.5	16
54	Energy dependent spin filtering by using Fano effect in open quantum rings. <i>Solid State Communications</i> , 2010 , 150, 1404-1408	1.6	16
53	Transport in magnetic graphene superlattice with Rashba spin-orbit interaction. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	14
52	Theoretical studies and tuning the electronic and optical properties of Zr ₂ CO ₂ monolayer using biaxial strain effect: Modified Becke-Johnson calculation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 114, 113559	3	12
51	Dwell time, Hartman effect and transport properties in a ferromagnetic phosphorene monolayer. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 085303	1.8	10
50	Energy spectrum and persistent current in a nanoscopic elliptical quantum ring threaded by magnetic flux in the presence of Rashba spin-orbit interaction. <i>Solid State Communications</i> , 2014 , 193, 20-25	1.6	9
49	Perfect tuning of spin-polarization in a ring-shaped multiple-quantum-dot nanostructure in the presence of Rashba spin-orbit coupling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 1459-1463	2.3	9
48	Charge pumping in quantum wires. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 1789-1802	1.8	9
47	Quantum nano ring composed of quantum dots as a source of pure persistent spin or charge current. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 3854-3860	2.3	9
46	BAND GAP OPENING EFFECT ON THE TRANSPORT PROPERTIES OF BILAYER GRAPHENE SUPERLATTICE. <i>International Journal of Modern Physics B</i> , 2013 , 27, 1350024	1.1	8
45	Edged topological disordered quantum ring in the presence of magnetic flux. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 1762-1768	2.3	8
44	Temperature-related behavior of the persistent current in a zigzag hexagonal graphene ring. <i>Europhysics Letters</i> , 2015 , 110, 17005	1.6	7
43	Spin Polarization and Spin-Flip Through Phosphorene Superlattice. <i>Annalen Der Physik</i> , 2019 , 531, 1900202	2.3	7
42	Quantum rings as a perfect spin-splitter and spin-filter by using the Rashba effect. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	7
41	Ground state magnetic properties in AA-stacking bilayer graphene quantum dots using Lieb's theorem. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 477, 427-433	2.8	6

40	Density of states of magnetic substitutional impurity-doped graphene in the paramagnetic and ferromagnetic phases. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 342, 54-60	2.8	6
39	Disorder-averaged currents in edged topological disordered mesoscopic cylinder. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 1469-1477	2.3	6
38	The impact of quantum dots magnetization on spin separation and spin current in a multiple quantum-dot ring in the presence of Rashba spin-orbit coupling. <i>Journal of Applied Physics</i> , 2012 , 111, 124312	2.5	6
37	Induced spin-accumulation and spin-polarization in a quantum-dot ring by using magnetic quantum dots and Rashba spin-orbit effect. <i>Journal of Applied Physics</i> , 2014 , 115, 204305	2.5	5
36	Structural, electronic and optical properties of two-dimensional (MY)CO (M = Mo,W) iMXene. <i>Nanotechnology</i> , 2021 , 32, 015703	3.4	5
35	Swapping of orbital angular momentum states of light in a quantum well waveguide. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	5
34	Spin-polarization and spin-flip in a triple-quantum-dot ring by using tunable lateral bias voltage and Rashba spin-orbit interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 428, 488-492	2.8	4
33	Tuning the Electronic and Optical Properties of Sc ₂ CF ₂ MXene Monolayer Using Biaxial Strain. <i>Journal of Electronic Materials</i> , 2020 , 49, 4892-4902	1.9	4
32	Spin transport through electric field modulated graphene periodic ferromagnetic barriers. <i>Physica B: Condensed Matter</i> , 2014 , 434, 69-73	2.8	4
31	Transport in graphene superlattice under a uniform electric field with Rashba spin-orbit interaction. <i>Superlattices and Microstructures</i> , 2015 , 81, 80-87	2.8	4
30	Magnetic susceptibility in the edged topological disordered nanoscopic cylinder. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 1518-1523	2.3	4
29	Effects of vacancy percentage on the energy gap of zigzag single-wall carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 1828-1831	3	4
28	Efficient spin filtering in a disordered semiconductor superlattice in the presence of Dresselhaus spin-orbit coupling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 1926-1929	2.3	4
27	Optical and magneto-optical properties of the simple cubic phase of the C ₆₀ crystal. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 2053-2065	1.8	4
26	Radius effect on the spintronic properties of a triangular network of quantum nanorings in the presence of Rashba spin-orbit interaction. <i>Current Applied Physics</i> , 2017 , 17, 207-213	2.6	3
25	Energy spectrum and persistent current in an armchair hexagonal graphene ring in the presence of vacancies, Rashba and Zeeman interactions. <i>European Physical Journal B</i> , 2015 , 88, 1	1.2	3
24	Particular nanowire superlattice as a spin filter. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 3994-3996	2.3	3
23	Electronic structures and optical properties of two-dimensional (W ₂ BX ₁ B) ₂ CO ₂ (X=SC,Y) iMXene by first-principles calculations. <i>Materials Chemistry and Physics</i> , 2020 , 248, 122896	4.4	2

22	Spintronic transport in zigzag silicon carbide nanoribbons with edge hydrogenation. <i>Materials Research Express</i> , 2019 , 6, 115040	1.7	2
21	Spin-resolved transport properties in molybdenum disulfide superlattice. <i>European Physical Journal B</i> , 2019 , 92, 1	1.2	2
20	Electron-phonon interaction effect on persistent current in a one-dimensional quantum ring by using a simple model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 1898-1901	2.3	2
19	Spin transport properties in zigzag silicon carbide nanoribbon nanojunctions by asymmetric hydrogenation and BN doping. <i>Materials Research Express</i> , 2019 , 6, 1250a4	1.7	2
18	Transport characteristics and dwell time in a bilayer phosphorene barrier. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 035302	1.8	2
17	Spin-polarization and spin-flip through a monolayer MoS2 superlattice via the Rashba effect. <i>Journal of Computational Electronics</i> , 2021 , 20, 126-134	1.8	2
16	Spin-resolved transport properties in monolayer phosphorene superlattice. <i>Superlattices and Microstructures</i> , 2021 , 151, 106779	2.8	2
15	Improved Armchair Hexagonal Graphene Ring Gas Sensor. <i>IEEE Sensors Journal</i> , 2018 , 18, 8642-8647	4	2
14	The influence of AA and AB stacking on the ground state magnetic properties of triangular bilayer graphene quantum dots. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 529, 167822	2.8	2
13	Edge deformation effects on sensitivity and selectivity performance of graphene quantum ring gas sensor. <i>Journal of Applied Physics</i> , 2019 , 125, 174503	2.5	1
12	Controlling the magnetic susceptibility in an artificial elliptical quantum ring by magnetic flux and external Rashba effect. <i>Journal of Applied Physics</i> , 2015 , 117, 114310	2.5	1
11	The effects of leading coupling and the external Rashba interaction on the effective spin polarization of a chain of quantum nano rings. <i>Journal of Computational Electronics</i> , 2020 , 19, 884-893	1.8	1
10	Effects of uniaxial strain on quantum conductance of finite zigzag single wall carbon nanotubes 2011 ,		1
9	Circumferential confinement consequence on the magnetic properties of a punctured nanotube in the presence of an axial electric field. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 255602	1.8	1
8	Spin splitting and spin polarization through a multi-terminal phosphorene quantum nanoring. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 265, 115003	3.1	1
7	Spin-filtering effects and negative differential resistance in N/B-doped zigzag silicon carbide nanoribbons with asymmetric edge hydrogenation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 271, 115253	3.1	1
6	The Effects of the Interdot and Lead-Dot Coupling on the Spin and Charge Current Through a Triple-Quantum-Dot Ring. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 5188-5193	2.9	0
5	Impact of Topological Edge Defects on Spin Transport Properties of Zigzag Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2000538	1.3	0

- 4 Improvement of Solar Cell Efficacy by Pulsed External Electric Fields on PSI Protein Arrangement. *ACS Applied Energy Materials*, **2021**, 4, 7642-7653 6.1 0
- 3 The structural properties of boron and nitrogen adsorption on benzene molecule: a density functional study. *Iranian Physical Journal*, **2015**, 9, 89-92
- 2 Lead position and lead-ring coupling effects on the spin-dependent transport properties in a two-dimensional network of quantum nanorings in the presence of Rashba spin-orbit interaction. *Journal of Computational Electronics*, **2020**, 19, 1014-1030 1.8
- 1 Thickness effects on the quantum conductance of single wall carbon nanotube junctions. *Diamond and Related Materials*, **2013**, 31, 10-14 3.5