Edris Faizabadi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6999580/publications.pdf

Version: 2024-02-01

68	429	840585	940416
papers	citations	11 h-index	16 g-index

68	68	68	226
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Swapping of orbital angular momentum states of light in a quantum well waveguide. European Physical Journal Plus, 2021, 136, 1.	1.2	32
2	Theoretical studies and tuning the electronic and optical properties of Zr2CO2 monolayer using biaxial strain effect: Modified Beckeâ€“Johnson calculation. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 114, 113559.	1.3	30
3	Tunneling time and Hartman effect in a ferromagnetic graphene superlattice. AIP Advances, 2012, 2, .	0.6	21
4	Spin transport and wavevector-dependent spin filtering through magnetic graphene superlattice. Solid State Communications, 2014, 179, 48-53.	0.9	18
5	Dwell time, Hartman effect and transport properties in a ferromagnetic phosphorene monolayer. Journal of Physics Condensed Matter, 2018, 30, 085303.	0.7	18
6	Energy dependent spin filtering by using Fano effect in open quantum rings. Solid State Communications, 2010, 150, 1404-1408.	0.9	17
7	Rashba spin-orbit effect on tunneling time in graphene superlattice. Journal of Applied Physics, 2012, 111, 093724.	1.1	17
8	Transport in magnetic graphene superlattice with Rashba spin-orbit interaction. European Physical Journal B, 2013, 86, 1.	0.6	16
9	Tuning the Electronic and Optical Properties of Sc2CF2 MXene Monolayer Using Biaxial Strain. Journal of Electronic Materials, 2020, 49, 4892-4902.	1.0	16
10	Ground state magnetic properties in AA-stacking bilayer graphene quantum dots using Liebâ€™s theorem. Journal of Magnetism and Magnetic Materials, 2019, 477, 427-433.	1.0	13
11	Spin Polarization and Spinâ€Flip Through Phosphorene Superlattice. Annalen Der Physik, 2019, 531, 1900202.	0.9	12
12	Charge pumping in quantum wires. Journal of Physics Condensed Matter, 2004, 16, 1789-1802.	0.7	11
13	Perfect tuning of spin-polarization in a ring-shaped multiple-quantum-dot nanostructure in the presence of Rashba spinâ€“orbit coupling. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1459-1463.	0.9	11
14	Edged topological disordered quantum ring in the presence of magnetic flux. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 1762-1768.	0.9	9
15	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. Journal of Applied Physics, 2012, 111, .	1.1	9
16	Energy spectrum and persistent current in a nanoscopic elliptical quantum ring threaded by magnetic flux in the presence of Rashba spinâ€“orbit interaction. Solid State Communications, 2014, 193, 20-25.	0.9	9
17	Quantum nano ring composed of quantum dots as a source of pure persistent spin or charge current. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 3854-3860.	0.9	9
18	Density of states of magnetic substitutional impurity-doped graphene in the paramagnetic and ferromagnetic phases. Journal of Magnetism and Magnetic Materials, 2013, 342, 54-60.	1.0	8

#	Article	IF	Citations
19	BAND GAP OPENING EFFECT ON THE TRANSPORT PROPERTIES OF BILAYER GRAPHENE SUPERLATTICE. International Journal of Modern Physics B, 2013, 27, 1350024.	1.0	8
20	Temperature-related behavior of the persistent current in a zigzag hexagonal graphene ring. Europhysics Letters, 2015, 110, 17005.	0.7	8
21	The influence of AA and AB stacking on the ground state magnetic properties of triangular bilayer graphene quantum dots. Journal of Magnetism and Magnetic Materials, 2021, 529, 167822.	1.0	8
22	Induced spin-accumulation and spin-polarization in a quantum-dot ring by using magnetic quantum dots and Rashba spin-orbit effect. Journal of Applied Physics, 2014, 115, 204305.	1.1	7
23	Quantum rings as a perfect spin-splitter and spin-filter by using the Rashba effect. European Physical Journal B, 2016, 89, 1.	0.6	7
24	Structural, electronic and optical properties of two-dimensional (M_{2/3}Y_{1/3})₂CO₂ (M = Mo,W) iMXene. Nanotechnology, 2021, 32, 015703.	1.3	7
25	Optical and magneto-optical properties of the simple cubic phase of the C60crystal. Journal of Physics Condensed Matter, 2002, 14, 2053-2065.	0.7	6
26	Disorder-averaged currents in edged topological disordered mesoscopic cylinder. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1469-1477.	0.9	6
27	Energy spectrum and persistent current in an armchair hexagonal graphene ring in the presence of vacancies, Rashba and Zeeman interactions. European Physical Journal B, 2015, 88, 1.	0.6	6
28	Spin-polarization and spin-flip in a triple-quantum-dot ring by using tunable lateral bias voltage and Rashba spin-orbit interaction. Journal of Magnetism and Magnetic Materials, 2017, 428, 488-492.	1.0	6
29	Transport characteristics and dwell time in a bilayer phosphorene barrier. Journal of Physics Condensed Matter, 2019, 31, 035302.	0.7	6
30	Spin-resolved transport properties in monolayer phosphorene superlattice. Superlattices and Microstructures, 2021, 151, 106779.	1.4	6
31	Effects of vacancy percentage on the energy gap of zigzag single-wall carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1828-1831.	1.3	5
32	Spin-filtering effects and negative differential resistance in N/B-doped zigzag silicon carbide nanoribbons with asymmetric edge hydrogenation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 271, 115253.	1.7	5
33	Efficient spin filtering in a disordered semiconductor superlattice in the presence of Dresselhaus spinâ€“orbit coupling. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1926-1929.	0.9	4
34	Magnetic susceptibility in the edged topological disordered nanoscopic cylinder. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1518-1523.	0.9	4
35	Spin transport through electric field modulated graphene periodic ferromagnetic barriers. Physica B: Condensed Matter, 2014, 434, 69-73.	1.3	4
36	Transport in graphene superlattice under a uniform electric field with Rashba spinâ€“orbit interaction. Superlattices and Microstructures, 2015, 81, 80-87.	1.4	4

#	Article	IF	Citations
37	Radius effect on the spintronic properties of a triangular network of quantum nanorings in the presence of Rashba spin-orbit interaction. Current Applied Physics, 2017, 17, 207-213.	1.1	4
38	Spintronic transport in zigzag silicon carbide nanoribbons with edge hydrogenation. Materials Research Express, 2019, 6, 115040.	0.8	4
39	Particular nanowire superlattice as a spin filter. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3994-3996.	0.9	3
40	Electronâ€“phonon interaction effect on persistent current in a one-dimensional quantum ring by using a simple model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1898-1901.	0.9	3
41	Spin-resolved transport properties in molybdenum disulfide superlattice. European Physical Journal B, 2019, 92, 1.	0.6	3
42	Spin transport properties in zigzag silicon carbide nanoribbon nanojunctions by asymmetric hydrogenation and BN doping. Materials Research Express, 2019, 6, 1250a4.	0.8	3
43	Electronic structures and optical properties of two-dimensional (W2â•3X1â•3)2CO2 (X=SC,Y) iMXene by first-principles calculations. Materials Chemistry and Physics, 2020, 248, 122896.	2.0	3
44	Circumferential confinement consequence on the magnetic properties of a punctured nanotube in the presence of an axial electric field. Journal of Physics Condensed Matter, 2020, 32, 255602.	0.7	3
45	Spin-polarization and spin-flip through a monolayer MoS2 superlattice via the Rashba effect. Journal of Computational Electronics, 2021, 20, 126-134.	1.3	3
46	Improved Armchair Hexagonal Graphene Ring Gas Sensor. IEEE Sensors Journal, 2018, 18, 8642-8647.	2.4	2
47	Edge deformation effects on sensitivity and selectivity performance of graphene quantum ring gas sensor. Journal of Applied Physics, 2019, 125, .	1.1	2
48	Spin splitting and spin polarization through a multi-terminal phosphorene quantum nanoring. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 265, 115003.	1.7	2
49	Impact of Topological Edge Defects on Spin Transport Properties of Zigzag Graphene Nanoribbons. Physica Status Solidi (B): Basic Research, 2021, 258, 2000538.	0.7	2
50	Improvement of Solar Cell Efficacy by Pulsed External Electric Fields on PSI Protein Arrangement. ACS Applied Energy Materials, 2021, 4, 7642-7653.	2.5	2
51	Phonon dispersion relation and phonon thermal conductivity in trilayer graphene at low temperatures. Proceedings of SPIE, 2011, , .	0.8	1
52	Effects of uniaxial strain on quantum conductance of finite zigzag single wall carbon nanotubes. Proceedings of SPIE, 2011, , .	0.8	1
53	Effects of the central armchair nanotube size on the conductance of carbon nanotube quantum dots. Proceedings of SPIE, 2011, , .	0.8	1
54	Controlling the magnetic susceptibility in an artificial elliptical quantum ring by magnetic flux and external Rashba effect. Journal of Applied Physics, 2015, 117, 114310.	1.1	1

#	Article	IF	Citations
55	The Effects of the Interdot and Lead-Dot Coupling on the Spin and Charge Current Through a Triple-Quantum-Dot Ring. IEEE Transactions on Electron Devices, 2017, 64, 5188-5193.	1.6	1
56	The effects of leadâ€“ring coupling and the external Rashba interaction on the effective spin polarization of a chain of quantum nano rings. Journal of Computational Electronics, 2020, 19, 884-893.	1.3	1
57	Numerical Evaluation of Novel Bioâ€Photovoltaic Devices Inspired by Photosynthetic Process and High Poly (3,4â€Ethylenedioxythiophene): Poly (styrenesulfonate) Efficacy as Hole Transport Layer. Energy Technology, 2022, 10, .	1.8	1
58	Electronic charge pumping in superlattice nanowire under pulsed signals. , 2006, , .		0
59	Vacancy effects on optical gap in GaAs in the presence of spin orbit interaction. , 2008, , .		0
60	Electronic charge pumping in quantum nanoring under harmonic signals. , 2008, , .		0
61	Single Wall Carbon Nanotubes in the Presence of Vacancies and Related Energy Gaps. , 0, , .		0
62	Spin filtering in monolayer graphene by using an electro-magnetostatic barrier. Proceedings of SPIE, 2011, , .	0.8	0
63	Control charge transfer in graphene by an electric field. , 2011, , .		0
64	Thickness effects on the quantum conductance of single wall carbon nanotube junctions. Diamond and Related Materials, 2013, 31, 10-14.	1.8	0
65	The structural properties of boron and nitrogen adsorption on benzene molecule: a density functional study. Iranian Physical Journal, 2015, 9, 89-92.	1.2	0
66	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 spinâ€“orbit interaction. Journal of Computational Electronics, 2020, 19, 1014-1030.	1.3	0
67	Edge effects on the intrinsic magnetism in ferromagnetic triangular phosphorene quantum dots using fully spin-polarized calculations. Journal of Physics Condensed Matter, 2021, 33, .	0.7	0
68	Detection of extremely large magnetoresistance in a ring-shaped array of magnetic quantum dots with very high performance and controllable parameters. Physical Chemistry Chemical Physics, 2022, 24, 2859-2865.	1.3	0