

Guanghui Zhou

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3131066/guanghui-zhou-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

152
papers

1,647
citations

21
h-index

33
g-index

157
ext. papers

1,910
ext. citations

2.9
avg, IF

5.11
L-index

#	Paper	IF	Citations
152	Switching, Dual Spin-Filtering Effects, and Negative Differential Resistance in a Carbon-Based Molecular Device. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2570-2574	3.8	127
151	Landau levels and magneto-transport property of monolayer phosphorene. <i>Scientific Reports</i> , 2015 , 5, 12295	4.9	114
150	Dual conductance, negative differential resistance, and rectifying behavior in a molecular device modulated by side groups. <i>Journal of Chemical Physics</i> , 2012 , 136, 184704	3.9	69
149	Two-dimensional van der Waals electrical contact to monolayer MoSi ₂ N ₄ . <i>Applied Physics Letters</i> , 2021 , 118, 013106	3.4	54
148	Hydrogen bond asymmetric local potentials in compressed ice. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 13639-45	3.4	42
147	Anisotropic quantum confinement effect and electric control of surface states in Dirac semimetal nanostructures. <i>Scientific Reports</i> , 2015 , 5, 7898	4.9	40
146	Spin-Resolved Transport Properties of a Pyridine-Linked Single Molecule Embedded between Zigzag-Edged Graphene Nanoribbon Electrodes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3010-3018	3.8	40
145	Negative differential resistance induced by the Jahn-Teller effect in single molecular coulomb blockade devices. <i>Computational Materials Science</i> , 2014 , 82, 33-36	3.2	39
144	Strong enhancement of spin ordering by A-site magnetic ions in the ferrimagnet CaCu ₃ Fe ₂ O ₈ . <i>Physical Review B</i> , 2016 , 94,	3.3	33
143	Spin-charge transport properties for graphene/graphyne zigzag-edged nanoribbon heterojunctions: A first-principles study. <i>Carbon</i> , 2018 , 127, 519-526	10.4	32
142	Electronic transport in a quantum wire under external terahertz electromagnetic irradiation. <i>Physical Review B</i> , 2003 , 68,	3.3	28
141	Induced gynogenesis in grass carp (<i>Ctenopharyngodon idellus</i>) using irradiated sperm of allotetraploid hybrids. <i>Marine Biotechnology</i> , 2011 , 13, 1017-26	3.4	26
140	Spin-charge transport properties of a Z-shaped graphyne nanoribbon junction with different edge passivations. <i>Carbon</i> , 2018 , 131, 160-167	10.4	24
139	Perfect negative differential resistance, spin-filter and spin-rectification transport behaviors in zigzag-edged graphyne nanoribbon-based magnetic devices. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 485, 136-141	2.8	23
138	Half metal phase in the zigzag phosphorene nanoribbon. <i>Scientific Reports</i> , 2018 , 8, 2932	4.9	23
137	Effects of amino-nitro side groups on electron device of oligo p-phenylenevinylene molecular between ZGNR electrodes. <i>Organic Electronics</i> , 2015 , 19, 26-33	3.5	23
136	Spin-filtering and rectification effects in a Z-shaped boron nitride nanoribbon junction. <i>Journal of Chemical Physics</i> , 2013 , 138, 034705	3.9	23

135	Potential Paths for the Hydrogen-Bond Relaxing With (HO) Cluster Size. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16962-16971	3.8	22
134	An ab initio investigation on boundary resistance for metallic grains. <i>Solid State Communications</i> , 2010 , 150, 1422-1424	1.6	22
133	A comprehensive understanding of melting temperature of nanowire, nanotube and bulk counterpart. <i>Nanoscale</i> , 2012 , 4, 2748-53	7.7	21
132	Electronic structures for armchair-edge graphene nanoribbons under a small uniaxial strain. <i>European Physical Journal B</i> , 2010 , 76, 463-467	1.2	21
131	Tunable mechanical, electronic and magnetic properties of monolayer C3N nanoribbons by external fields. <i>Carbon</i> , 2019 , 143, 14-20	10.4	21
130	Tunable electronic and transport properties for ultranarrow armchair-edge silicene nanoribbons under spin-orbit coupling and perpendicular electric field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 282-287	2.3	20
129	Effect of transverse electric field on helical edge states in a quantum spin-Hall system. <i>Applied Physics Letters</i> , 2011 , 99, 222111	3.4	20
128	Effective g factor in black phosphorus thin films. <i>Physical Review B</i> , 2017 , 95,	3.3	19
127	Spin-dependent Seebeck effects in a graphene nanoribbon coupled to two square lattice ferromagnetic leads. <i>Journal of Applied Physics</i> , 2015 , 117, 104305	2.5	19
126	Strain-controlled valley and spin separation in silicene heterojunctions. <i>Physical Review B</i> , 2018 , 97,	3.3	19
125	Spin-Resolved Electronic and Transport Properties of Graphyne-Based Nanojunctions with Different N-Substituting Positions. <i>Nanoscale Research Letters</i> , 2019 , 14, 299	5	18
124	Electric field induced spin and valley polarization within a magnetically confined silicene channel. <i>Journal of Applied Physics</i> , 2014 , 116, 244312	2.5	17
123	Transport properties for a Luttinger liquid wire in the presence of a time-dependent impurity. <i>Physical Review B</i> , 2006 , 73,	3.3	17
122	The giant Stark effect in armchair-edge phosphorene nanoribbons under a transverse electric field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 193-198	2.3	17
121	The spin-charge transport properties for a graphene-based molecular junction: A first-principles study. <i>Organic Electronics</i> , 2017 , 48, 357-364	3.5	15
120	Electronic transport for armchair graphene nanoribbons with a potential barrier. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 761-764	2.3	15
119	A possible realization of spin filter using a quantum wire with Rashba spin-orbit coupling. <i>Journal of Applied Physics</i> , 2007 , 101, 063704	2.5	15
118	Crystallographic Characterization of Black Phosphorene and its Application in Nanostructures. <i>Physical Review Applied</i> , 2019 , 12,	4.3	15

117	A multi-functional molecular device based on oligo phenylenevinylene and graphene. <i>Chemical Physics Letters</i> , 2014 , 610-611, 298-302	2.5	14
116	Magnetotransport and current-induced spin transfer torque in a ferromagnetically contacted graphene. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 445302	1.8	14
115	Spin polarization and charge transmission for a waveguide on surface of topological insulator. <i>Applied Physics Letters</i> , 2011 , 99, 153104	3.4	13
114	Dependence of transport on adatom location for armchair-edge graphene nanoribbons. <i>Applied Physics Letters</i> , 2011 , 98, 093111	3.4	13
113	Seebeck effects in a graphene nanoribbon coupled to two ferromagnetic leads. <i>Journal of Applied Physics</i> , 2014 , 115, 114305	2.5	12
112	Symmetry of atomistic structure for armchair-edge graphene nanoribbons under uniaxial strain. <i>Applied Physics Letters</i> , 2012 , 100, 153112	3.4	12
111	Spin-dependent transport for armchair-edge graphene nanoribbons between ferromagnetic leads. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 135304	1.8	12
110	Enhanced thermoelectric properties of the AGNR/GNR heterojunctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 3766-3772	2.3	11
109	Electrical Contact between an Ultrathin Topological Dirac Semimetal and a Two-Dimensional Material. <i>Physical Review Applied</i> , 2020 , 13,	4.3	11
108	Electrical properties and spintronic application of carbon phosphide nanoribbons with edge functionalization. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9313-9321	7.1	11
107	Modulation of external electric field on surface states of topological insulator Bi ₂ Se ₃ thin films. <i>Applied Physics Letters</i> , 2012 , 101, 223109	3.4	11
106	Scanning tunneling microscopy image modeling for zigzag-edge graphene nanoribbons. <i>Applied Physics Letters</i> , 2011 , 98, 263103	3.4	11
105	Even-odd effect on the edge states for zigzag phosphorene nanoribbons under a perpendicular electric field. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 045106	3	10
104	Symmetry-dependent spin-charge transport and thermopower through a ZSiNR-based FM/normal/FM junction. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 465301	1.8	10
103	Electronic transport for a crossed graphene nanoribbon junction with and without doping. <i>European Physical Journal B</i> , 2010 , 76, 421-425	1.2	9
102	Magnetotransport of Dirac fermions in graphene in the presence of spin-orbit interactions. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 345228	1.8	9
101	The effect of magnetic field on chiral transmission in p-n-p graphene junctions. <i>Scientific Reports</i> , 2015 , 5, 18458	4.9	9
100	Length-independent multifunctional device based on penta-tetra-pentagonal molecule: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3652-3660	7.1	9

99	Infrared Optical Response of Metallic Graphene Nanoribbons. <i>Advances in Condensed Matter Physics</i> , 2010 , 2010, 1-6	1	8
98	Floquet scattering approach to electron transport for a quantum wire under longitudinally polarized electromagnetic field irradiation. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 6663-6673	1.8	8
97	Low-bias negative differential resistance in junction of a benzene between zigzag-edged phosphorene nanoribbons. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 265301	1.8	8
96	Spin- and valley-dependent transport properties for metal-silicene-metal junctions. <i>European Physical Journal B</i> , 2015 , 88, 1	1.2	7
95	Chiral tunneling modulated by a time-periodic potential on the surface states of a topological insulator. <i>Scientific Reports</i> , 2014 , 4, 4624	4.9	7
94	Electronic and thermoelectric transport properties for a zigzag graphene/silicene/graphene heterojunction modulated by external field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 1469-1474	2.3	7
93	Electronic transport for impurity-doped armchair-edge graphene nanoribbons. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	7
92	Magnetoresistive effect of a topological-insulator waveguide in the presence of a magnetic field. <i>Applied Physics Letters</i> , 2012 , 101, 262403	3.4	7
91	Transport properties for a Luttinger liquid wire with Rashba spin-orbit coupling and Zeeman splitting. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 136215	1.8	7
90	Terahertz electromagnetic response and its electric field manipulation of bulked silicene. <i>Laser Physics Letters</i> , 2015 , 12, 095902	1.5	6
89	Pentavalent iridium pyrochlore Cd ₂ Ir ₂ O ₇ : A prototype material system for competing crystalline field and spin-orbit coupling. <i>Physical Review B</i> , 2018 , 97,	3.3	6
88	Strain-induced effects in zigzag-edged blue phosphorene nanoribbons with edge sulfur passivation. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 395303	1.8	6
87	Fully valley- and spin-polarized magnetocapacitance in n-type monolayer MoS ₂ . <i>Applied Physics Express</i> , 2014 , 7, 021201	2.4	6
86	Magnetic control of valley and spin degrees of freedom via magnetotransport in n-type monolayer MoS ₂ . <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 485008	1.8	6
85	Giant magnetoresistance modulated by magnetic field in graphene p-n junction. <i>Applied Physics Letters</i> , 2014 , 105, 193108	3.4	6
84	Thermoelectric effect in a graphene sheet connected to ferromagnetic leads. <i>Journal of Applied Physics</i> , 2012 , 112, 073712	2.5	6
83	Electrical modulation of the edge channel transport in topological insulators coupled to ferromagnetic leads. <i>Journal of Applied Physics</i> , 2012 , 112, 063710	2.5	6
82	Spin-dependent electron transport in a Rashba quantum wire with rough edges. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	6

81	Semiconducting states and transport in metallic armchair-edged graphene nanoribbons. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 315304	1.8	6
80	All-electric spin modulator based on a two-dimensional topological insulator. <i>Applied Physics Letters</i> , 2016 , 108, 032403	3.4	6
79	The spintronic functionality in a junction of naphthalene diimide with different molecule-graphene linkers. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 471, 555-560	2.8	6
78	Electronic and thermoelectric transport properties for an armchair graphene-silicene-graphene heterojunction modulated by external field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 2984-2988	2.3	5
77	Electrically tunable valley-dependent transport in strained silicene constrictions. <i>Journal of Applied Physics</i> , 2019 , 125, 244304	2.5	5
76	Electron transport channels and their manipulation by impurity in armchair-edge graphene nanoribbons. <i>Carbon</i> , 2014 , 72, 365-371	10.4	5
75	Rashba-Zeeman-effect-induced spin filtering energy windows in a quantum wire. <i>Journal of Applied Physics</i> , 2014 , 115, 223709	2.5	5
74	Confined states and spin polarization on a topological insulator thin film modulated by an electric potential. <i>Chinese Physics B</i> , 2013 , 22, 077310	1.2	5
73	Magnetotransport in a graphene monolayer with two tunable magnetic barriers. <i>Physica B: Condensed Matter</i> , 2011 , 406, 4407-4411	2.8	5
72	Electronic structure and transport for a laser-field-irradiated quantum wire with Rashba spin-orbit coupling. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 9161-9171	1.8	5
71	Spin multiple functional devices in zigzag-edged graphyne nanoribbons based molecular nanojunctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 498, 166223	2.8	5
70	Edge and sublayer degrees of freedom for phosphorene nanoribbons with twofold-degenerate edge bands via electric field. <i>Physical Review B</i> , 2021 , 103,	3.3	5
69	Optimizing the thermoelectric performance of graphyne nanoribbons via introducing disordered surface fluctuation. <i>Solid State Communications</i> , 2019 , 298, 113646	1.6	4
68	High-Pressure Synthesis of Two Polymorphic HgMnO Phases and Distinct Magnetism from 2D to 3D. <i>Inorganic Chemistry</i> , 2020 , 59, 3887-3893	5.1	4
67	Effect of trigonal warping on the Berry curvature and valley/spin Hall effects in monolayer MoS ₂ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126344	2.3	4
66	Spin-dependent Seebeck effects in a graphene superlattice p-n junction with different shapes. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 405303	1.8	4
65	Electrically controlled spin polarization and selection in a topological insulator sandwiched between ferromagnetic electrodes. <i>Journal of Applied Physics</i> , 2014 , 115, 023709	2.5	4
64	Magnetically confined states and transport property on the surface of a topological insulator. <i>Annals of Physics</i> , 2014 , 347, 32-44	2.5	4

63	Dependence of electronic and optical properties on a high-frequency field for carbon nanotubes. <i>Journal of Applied Physics</i> , 2008 , 103, 073712	2.5	4
62	Temperature-dependent transport and spin accumulation in a quantum wire with Rashba spin-orbit interaction. <i>European Physical Journal B</i> , 2008 , 65, 85-90	1.2	4
61	Multiple magnetic transitions and electrical transport transformation of a BaFeO ₃ cubic perovskite single crystal. <i>Physical Review B</i> , 2020 , 101,	3.3	4
60	Effect of amino on spin-dependent transport through a junction of fused oligothiophenes between graphene electrodes. <i>Chemical Physics</i> , 2017 , 488-489, 17-21	2.3	3
59	Finite-size effects on electronic structure and local properties in passivated AA-stacked bilayer armchair-edge graphene nanoribbons. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 085301	1.8	3
58	Analytical study on strain tunable electronic structure and optical transitions in armchair black phosphorene nanoribbons. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 285301	1.8	3
57	Electronic transport in armchair graphene nanoribbon under double magnetic barrier modulation. <i>Physica B: Condensed Matter</i> , 2018 , 533, 40-45	2.8	3
56	Electronic transport for pristine and doped crossed graphene nanoribbon junctions with zigzag interfaces. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 1710-1713	2.3	3
55	Effect of interaction between impurities on localized magnetic states in graphene. <i>Solid State Communications</i> , 2013 , 159, 1-5	1.6	3
54	Electron states scattering off line edges on the surface of topological insulator. <i>Chinese Physics B</i> , 2014 , 23, 107304	1.2	3
53	Controllable fully spin-polarized transport in a ferromagnetically doped topological insulator junction. <i>Journal of Applied Physics</i> , 2014 , 115, 154310	2.5	3
52	Spin-filtering and charge- and spin-switching effects in a quantum wire with periodically attached stubs. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	3
51	Spatial distribution of spin polarization in a channel on the surface of a topological insulator. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 185301	1.8	3
50	Electronic structure and transport on the surface of topological insulator attached to an electromagnetic superlattice. <i>Physica B: Condensed Matter</i> , 2012 , 407, 3664-3670	2.8	3
49	Spin-orbit interaction induced anisotropic property in interacting quantum wires. <i>Nanoscale Research Letters</i> , 2011 , 6, 213	5	3
48	Electron transport of a quantum wire containing a finite-size impurity under terahertz electromagnetic-field illumination. <i>Journal of Applied Physics</i> , 2005 , 97, 123521	2.5	3
47	Spin-dependent transport and current-induced spin transfer torque in a disordered zigzag silicene nanoribbon. <i>Physica B: Condensed Matter</i> , 2016 , 500, 106-110	2.8	3
46	Even-odd-dependent optical transitions of zigzag monolayer black phosphorus nanoribbons. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	3

45	Electronic structures and transport properties of low-dimensional GaN nanoderivatives: A first-principles study. <i>Applied Surface Science</i> , 2021 , 561, 150038	6.7	3
44	Sensitivity of helical edge states to line substitutional magnetic doping in zigzag silicene nanoribbons. <i>Solid State Communications</i> , 2017 , 254, 42-47	1.6	2
43	Anti-bias voltage electron-Kondo transport in a quantum dot device driven by a graphene sheet. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 187-191	2.3	2
42	Multifunctionality for the nanojunction of a rotating p-phenylene vinylene molecule between graphene leads. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126709	2.3	2
41	Selection rule for the optical spectrum of armchair-edge silicene nanoribbons. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 455306	3	2
40	Thermoelectric transport for a quantum wire side-coupled to a graphene sheet between ferromagnetic leads. <i>Journal of Applied Physics</i> , 2013 , 113, 143508	2.5	2
39	Alternating current transport property for a two-channel interacting quantum wire. <i>Solid State Communications</i> , 2011 , 151, 1256-1260	1.6	2
38	Conductance and spin polarization for a quantum wire with the competition of Rashba and Dresselhaus spin-orbit coupling. <i>Physica B: Condensed Matter</i> , 2010 , 405, 4785-4789	2.8	2
37	Spin Accumulation in a Quantum Wire with Rashba Spin-Orbit Coupling. <i>Advances in Condensed Matter Physics</i> , 2008 , 2008, 1-5	1	2
36	Rectifying Performance of Heterojunction Based on Borophene Nanoribbons with Edge Passivation. <i>Nanoscale Research Letters</i> , 2020 , 15, 185	5	2
35	Carbon phosphide nanosheets and nanoribbons: insights on modulating their electronic properties by first principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 22520-22528	3.6	2
34	A comparative first-principles study of point defect properties in the layered MX ₂ (M = Mo, W; X = S, Te): Substitution by the groups III, V and VII elements. <i>Computational Materials Science</i> , 2019 , 156, 280-285	3.2	2
33	Multi-functional switch effect in interlocking molecular rotators-on-graphene systems using electric fields. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5292-5302	7.1	2
32	Thermoelectric figure of merit in a quantum wire coupled to a graphene sheet between ferromagnetic leads. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	1
31	The effect of electric potential on Landau levels for topological insulator surface states. <i>Physica B: Condensed Matter</i> , 2014 , 445, 81-87	2.8	1
30	Time-dependent electron transport in HgTe/CdTe quantum wells. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 966-969	2.3	1
29	Electrical switching of quantum tunneling through p-n junction in a quantum spin Hall bar. <i>Journal of Applied Physics</i> , 2013 , 113, 053708	2.5	1
28	A Scheme for Spin Manipulation in a Quantum Dot with Both Charge and Spin Bias. <i>Communications in Theoretical Physics</i> , 2011 , 55, 359-361	2.4	1

27	SPIN ACCUMULATION IN A QUANTUM WIRE WITH THE COEXISTENCE OF RASHBA AND DRESSELHAUSE SPIN-ORBIT COUPLING. <i>International Journal of Modern Physics B</i> , 2011 , 25, 3495-3502	1.1	1
26	Electron dwell time through a quantum wire under a electromagnetic field irradiation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 368, 97-100	2.3	1
25	Electromagnetic-field-induced resonant structures for an open rectangular quantum dot. <i>European Physical Journal B</i> , 2005 , 46, 127-132	1.2	1
24	Abnormal Nuclear Phenomena and Possible Nuclear Process. <i>Fusion Science and Technology</i> , 1994 , 25, 203-206		1
23	Strain effect on electronic structure and transport properties of zigzag-nanoribbons: a mean-field theoretical study. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	1
22	Electronic tunneling through a potential barrier on the surface of a topological insulator. <i>Modern Physics Letters B</i> , 2016 , 30, 1650416	1.6	1
21	Effects of an external electric field on electronic states and transport of a Bi ₂ Se ₃ thin film. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 3650-3654	2.3	1
20	Spin-dependent transport properties of a graphene electrode-single quintuple bond [PhCrCrPh] molecule junction. <i>Molecular Physics</i> , 2019 , 117, 768-775	1.7	1
19	Half-metallic transition for ZGNRs adsorbing porphine molecules under an in-plane external electric field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 142, 115316	3	1
18	Defects-/doping-driven modulation of the electronic and magnetic properties of 2H- and Td-phase WTe ₂ monolayers: A first-principle study. <i>Materials Science in Semiconductor Processing</i> , 2022 , 143, 106537	4.3	0
17	Modulation of electrical performance of zigzag edged tetra-penta-octagonal graphene nanoribbons based devices via boundary passivations. <i>Results in Physics</i> , 2021 , 104945	3.7	0
16	Electronic properties and spintronic applications of r-N-graphyne nanoribbons. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 115003	3	0
15	Os Doping Suppressed Cu-Fe Charge Transfer and Induced Structural and Magnetic Phase Transitions in LaCuFeOsO (= 1 and 2). <i>Inorganic Chemistry</i> , 2021 , 60, 6298-6305	5.1	0
14	Spin-resolved transport properties of atomic carbon chain between sawtooth zigzag-edge graphene nanoribbons electrodes. <i>Molecular Physics</i> , 2021 , 119, e1857448	1.7	0
13	First-Principles Study on the Tunable Electronic and Magnetic Properties of a Janus GaInSeTe Nanosheet via Strain and Defect Engineering. <i>Journal of Electronic Materials</i> , 2022 , 51, 2212-2220	1.9	0
12	Potential Paths for the Hydrogen-Bond Relaxing With (H ₂ O) _N Cluster Size. <i>Journal of Physical Chemistry A</i> , 2015 , 150629002906004	2.8	
11	Probing the anisotropy of Landau levels in phosphorene by magneto-capacitance with a parabolic potential confinement. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 425702	1.8	
10	Electronic states and spin-filter effect in three-dimensional topological insulator Bi ₂ Se ₃ nanoribbons. <i>Chinese Physics B</i> , 2018 , 27, 017304	1.2	

- 9 Controllable multiple-quantum transitions in a T-shaped small quantum dot-ring system. *Physica B: Condensed Matter*, **2016**, 488, 88-98 2.8
- 8 Electronic structure for a topological insulator with a smoothly varying step on surface. *Physica B: Condensed Matter*, **2014**, 454, 67-71 2.8
- 7 SPIN CURRENT INDUCED ELECTRIC FIELD IN A RASHBA QUANTUM WIRE. *Modern Physics Letters B*, **2010**, 24, 649-656 1.6
- 6 Study of High-Frequency Vibrational Modes for Nonlinear Diatomic Chains. *Physica Status Solidi (B): Basic Research*, **1997**, 200, 49-56 1.3
- 5 Strongly localized states and giant optical absorption induced by multiple flat-bands in AA-stacked multilayer armchair graphene nanoribbons. *New Journal of Physics*, **2022**, 24, 023010 2.9
- 4 Quantum magneto-transport property of two-dimensional semi-Dirac electron system. *Journal of Magnetism and Magnetic Materials*, **2022**, 549, 168933 2.8
- 3 Electronic transport decay rule for junction of oligophenylene molecules sandwiched between phosphorene nanoribbons. *Journal Physics D: Applied Physics*, **2020**, 53, 105302 3
- 2 Device design based on the covalent homocoupling of porphine molecules*. *Chinese Physics B*, **2021**, 30, 098504 1.2
- 1 Effect of geometrical structure on transport properties of silicene nanoconstrictions*. *Chinese Physics Letters*, **2021**, 38, 127301 1.8