Qing-Feng Sun

List of Publications by Year
in descending order

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225 papers	6,847 citations	50170 46 h-index	82410 72 g-index
225 all docs	225 docs citations	225 times ranked	3020 citing authors

#	Article	IF	Citations
1	Topological phase transition driven by magnetic field in one-dimensional topological superconductor rings. Physical Review B, 2022, 105, .	1.1	1
2	Equal-spin and oblique-spin crossed Andreev reflections in ferromagnet/Ising superconductor/ferromagnet junction. Physical Review B, 2022, 105, .	1.1	7
3	Coexistence of electron whispering-gallery modes and atomic collapse states in graphene/WSe2 heterostructure quantum dots. Nature Communications, 2022, 13, 1597.	5.8	12
4	Half-integer quantized thermal conductance plateau in chiral topological superconductor systems. Physical Review B, 2022, 105, .	1.1	2
5	Charge Transport in a Multiterminal DNA Tetrahedron: Interplay among Contact Position, Disorder, and Base-Pair Mismatch. Physical Review Applied, 2022, 17, .	1.5	8
6	Anomalous photon-assisted tunneling in periodically driven Majorana nanowires and BCS charge measurement. Physical Review B, 2022, 105, .	1.1	2
7	Spin-valley-resolved energy spectra of quantum dots in the graphene/transition metal dichalcogenides system. Physical Review B, 2022, 105, .	1.1	3
8	Spin phase regulated spin Josephson supercurrent in topological superconductor. Physical Review B, 2022, 105, .	1.1	2
9	Realizing Valley-Polarized Energy Spectra in Bilayer Graphene Quantum Dots via Continuously Tunable Berry Phases. Physical Review Letters, 2022, 128, .	2.9	12
10	Resonant tunneling in disordered borophene nanoribbons with line defects. Npj Computational Materials, 2022, 8, .	3.5	3
11	Chiral interface states and related quantized transport in disordered Chern insulators. Physical Review B, 2021, 103, .	1.1	12
12	Charge and spin transport through a normal lead coupled to an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>s</mml:mi></mml:math> -wave superconductor and a Majorana zero mode. Physical Review B, 2021, 103, .	1.1	8
13	Realization of arbitrary two-qubit quantum gates based on chiral Majorana fermions*. Chinese Physics B, 2021, 30, 040303.	0.7	1
14	Specular Andreev reflection and its detection. Physical Review B, 2021, 103, .	1.1	6
15	An analytical solution for quantum scattering through a $${cal P}{cal T}$$-symmetric delta potential. Frontiers of Physics, 2021, 16, 1.	2.4	0
16	Constructing Low-Dimensional Quantum Devices Based on the Surface State of Topological Insulators. Chinese Physics Letters, 2021, 38, 077303.	1.3	3
17	Electrical control of crossed Andreev reflection and spin-valley switch in antiferromagnet/superconductor junctions. Physical Review B, 2021, 104, .	1.1	18
18	Thermal dissipation in the quantum Hall regime in graphene. Physical Review B, 2021, 104, .	1.1	7

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19	Topological phase transitions and Majorana zero modes in DNA double helix coupled to s-wave superconductors. New Journal of Physics, 2021, 23, 093047.	1.2	4
20	Spin-triplet superconductorâ€“quantum anomalous Hall insulatorâ€“spin-triplet superconductor Josephson junctions: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>0</mml:mn><mml:mtext>â^'</mml:mtext><mml:mi>Ï€</mml:mi></mml transition, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ï•</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:m phase, and switching effects. Physical Review B, 2021, 104, .	1.1	6
21	Efficient Spin-Dependent Charge Transmission and Improved Enantioselective Discrimination Capability in Self-Assembled Chiral Coordinated Monolayers. Journal of Physical Chemistry Letters, 2021, 12, 10262-10269.	2.1	7
22	Multiorbital model reveals a second-order topological insulator in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>H</mml:mi></mml:mrow></mml: transition metal dichalcogenides. Physical Review B, 2021, 104, .	1.1	26
23	Spatial and magnetic confinement of massless Dirac fermions. Physical Review B, 2021, 104, .	1.1	8
24	Evidence for anisotropic spin-triplet Andreev reflection at the 2D van der Waals ferromagnet/superconductor interface. Nature Communications, 2021, 12, 6725.	5.8	15
25	Spin-valley polarized edge states and quantum anomalous Hall states controlled by side potential in two-dimensional honeycomb lattices. Physical Review B, 2021, 104, .	1.1	12
26	A Majorana perspective on understanding and identifying axion insulators. Communications Physics, 2021, 4, .	2.0	6
27	Topological phase transitions of Thouless charge pumping realized in helical organic molecules with long-range hopping. Physical Review B, 2020, 102, .	1.1	10
28	Anomalous Josephson current in quantum anomalous Hall insulator-based superconducting junctions with a domain wall structure*. Chinese Physics B, 2020, 29, 097401.	0.7	11
29	Quantum Hall effect in wedge-shaped samples. Physical Review B, 2020, 102, .	1.1	8
30	Transport study of the wormhole effect in three-dimensional topological insulators. Physical Review B, 2020, 102, .	1.1	5
31	Band bending and zero-conductance resonances controlled by edge electric fields in zigzag silicene nanoribbons. Physical Review B, 2020, 102, .	1.1	12
32	Correlation-induced valley splitting and orbital magnetism in a strain-induced zero-energy flatband in twisted bilayer graphene near the magic angle. Physical Review B, 2020, 102, .	1.1	26
33	Linear and nonlinear thermoelectric transport in a magnetic topological insulator nanoribbon with a domain wall. Physical Review B, 2020, 102, .	1.1	20
34	Plateaus of quantized conductance with high steps in topological nodal-line semimetals. Physical Review B, 2020, 101, .	1.1	7
35	Enhancement of electron transport and band gap opening in graphene induced by adsorbates. Physical Review B, 2020, 101, .	1.1	5
36	Double Andreev reflections and double normal reflections in nodal-line semimetal-superconductor junctions. Physical Review B, 2020, 101, .	1.1	12

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37	Movable Valley Switch Driven by Berry Phase in Bilayer-Graphene Resonators. Physical Review Letters, 2020, 124, 166801.	2.9	20
38	Majorana zero modes from topological kink states in the two-dimensional electron gas. Physical Review B, 2020, 101, .	1.1	4
39	Spin-dependent electron transport along hairpinlike DNA molecules. Physical Review B, 2020, 102, .	1.1	13
40	Nonlocal correlation mediated by Weyl orbits. Physical Review Research, 2020, 2, .	1.3	5
41	Chirality-dependent electron transport in Weyl semimetal pâ€“nâ€“p junctions. Communications Physics, 2019, 2, .	2.0	7
42	Ferromagnetism-induced Kondo effect in graphene with a magnetic impurity. Physical Review B, 2019, 100, .	1.1	7
43	Majorana zero modes in regular B-form single-stranded DNA proximity-coupled to an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>s</mml:mi></mml:math> -wave superconductor. Physical Review B, 2019, 99, .	1.1	12
44	Non-Abelian operation on chiral Majorana fermions by quantum dots. Physical Review B, 2019, 99, .	1.1	19
45	Switch effect and 0- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ï€</mml:mi></mml:math> transition in Ising superconductor Josephson junctions. Physical Review B, 2019, 99, .	1.1	13
46	Berry phase induced valley level crossing in bilayer graphene quantum dots. Physical Review B, 2019, 99, .	1.1	16
47	Phonon-assisted Andreev reflection at a Majorana zero mode. Physical Review B, 2019, 99, .	1.1	11
48	Anomalous spin Nernst effect in Weyl semimetals. Journal of Physics Condensed Matter, 2019, 31, 435301.	0.7	3
49	Electrically tunable chiral Majorana edge modes in quantum anomalous Hall insulatorâ€“topological superconductor systems. Physical Review B, 2019, 100, .	1.1	13
50	Flux-induced topological superconductor in planar Josephson junction. Physical Review B, 2019, 100, .	1.1	7
51	Perfect valley filter based on a topological phase in a disordered Sb monolayer heterostructure. Physical Review B, 2018, 97, .	1.1	17
52	Doubled Shapiro steps in a topological Josephson junction. Physical Review B, 2018, 97, .	1.1	12
53	Chiral Majorana fermion modes regulated by a scanning tunneling microscope tip. Physical Review B, 2018, 97, .	1.1	16
54	Magnetoanisotropic spin-triplet Andreev reflection in ferromagnet-Ising superconductor junctions. Physical Review B, 2018, 97, .	1.1	22

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55	Influence of magnetic disorders on quantum anomalous Hall effect in magnetic topological insulator films beyond the two-dimensional limit. New Journal of Physics, 2018, 20, 043011.	1.2	10
56	Manipulation and Characterization of the Valley-Polarized Topological Kink States in Graphene-Based Interferometers. Physical Review Letters, 2018, 121, 156801.	2.9	36
57	Geometric effect on quantum anomalous Hall states in magnetic topological insulators. Journal of Physics Condensed Matter, 2018, 30, 435303.	0.7	4
58	Magnetic flux control of chiral Majorana edge modes in topological superconductor. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	12
59	Configuration-sensitive transport at the domain walls of a magnetic topological insulator. Physical Review B, 2018, 98, .	1.1	10
60	Low-energy electronic properties of a Weyl semimetal quantum dot. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	13
61	Nonequilibrium Kondo effect by the equilibrium numerical renormalization group method: The hybrid Anderson model subject to a finite spin bias. Physical Review B, 2018, 97, .	1.1	11
62	Gate voltage controlled thermoelectric figure of merit in three-dimensional topological insulator nanowires. Physical Review B, 2018, 97, .	1.1	16
63	Noise signatures for determining chiral Majorana fermion modes. Physical Review B, 2018, 98, .	1.1	13
64	Current noises in a topological Josephson junction. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	5
65	Quantum transport through three-dimensional topological insulator p-n junction under magnetic field. Physical Review B, 2018, 98, .	1.1	5
66	Double refraction and spin splitter in normal-conductor/hexagonal-semiconductor junctions. Physical Review B, 2018, 97, .	1.1	5
67	Ginzburg-Landau-type theory of nonpolarized spin superconductivity. Physical Review B, 2017, 95, .	1.1	5
68	Mode mixing induced by disorder in a graphene <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mi>n</mml:mi><mml:mi>p</mml:mi><mml:mi> junction in a magnetic field. Physical Review B, 2017, 95, .	1.1	6
69	Spin-flip reflection at the normal metal-spin superconductor interface. Physical Review B, 2017, 95, .	1.1	10
70	Inelastic Kondo-Andreev tunneling in a vibrating quantum dot. Physical Review B, 2017, 95, .	1.1	8
71	Majorana dc Josephson current mediated by a quantum dot. Journal of Physics Condensed Matter, 2017, 29, 195301.	0.7	13
72	Charge Kondo effect in negative- U quantum dots with superconducting electrodes. Physical Review B, 2017, 96, .	1.1	13

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73	Topological states and quantized current in helical organic molecules. Physical Review B, 2017, 95, .	1.1	21
74	Even-odd interference effect in a topological superconducting wire. Physical Review B, 2017, 96, .	1.1	13
75	Double Andreev reflections in type-II Weyl semimetal-superconductor junctions. Physical Review B, 2017, 96, .	1.1	37
76	Superconductor-graphene-superconductor Josephson junction in the quantum Hall regime. Physical Review B, 2017, 96, .	1.1	11
77	Two-dimensional lattice model for the surface states of topological insulators. Physical Review B, 2017, 95, .	1.1	30
78	Quantum perfect crossed Andreev reflection in top-gated quantum anomalous Hall insulatorâ€“superconductor junctions. Physical Review B, 2017, 95, .	1.1	37
79	The valley filter efficiency of monolayer graphene and bilayer graphene line defect model. New Journal of Physics, 2016, 18, 103024.	1.2	29
80	Spin-polarized electron transport through helicene molecular junctions. Physical Review B, 2016, 94, .	1.1	35
81	Spin selectivity effect in achiral molecular systems. Physical Review B, 2016, 94, .	1.1	13
82	Surface-step defect in three-dimensional topological insulators: Electric manipulation of spin and quantum spin Hall effect. Physical Review B, 2016, 94, .	1.1	7
83	Crossed Andreev effects in two-dimensional quantum Hall systems. Physical Review B, 2016, 94, .	1.1	36
84	Chiral wave-packet scattering in Weyl semimetals. Physical Review B, 2016, 93, .	1.1	28
85	Quantum interference in topological insulator Josephson junctions. Physical Review B, 2016, 93, .	1.1	15
86	Magnetothermoelectric transport properties of multiterminal graphene nanoribbons. Physical Review B, 2016, 93, .	1.1	14
87	Tunable Anderson metal-insulator transition in quantum spin-Hall insulators. Physical Review B, 2015, 91, .	1.1	21
88	Identifying the topological superconducting phase in a multiband quantum wire. Physical Review B, 2015, 91, .	1.1	11
89	Effect of gate voltage on spin transport along<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math>-helical protein. Physical Review B, 2015, 92, .	1.1	42
90	Topological Imbert-Fedorov Shift in Weyl Semimetals. Physical Review Letters, 2015, 115, 156602.	2.9	104

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91	Disorder and Metal-Insulator Transitions in Weyl Semimetals. Physical Review Letters, 2015, 115, 246603.	2.9	124
92	Spin susceptibility of Anderson impurities in arbitrary conduction bands. Physical Review B, 2015, 92, .	1.1	15
93	Theory for electric dipole superconductivity with an application for bilayer excitons. Scientific Reports, 2015, 5, 11925.	1.6	9
94	High-Efficiency Cooper-Pair Splitter in Quantum Anomalous Hall Insulator Proximity-Coupled with Superconductor. Scientific Reports, 2015, 5, 14892.	1.6	17
95	Revisit the spin-FET: Multiple reflection, inelastic scattering and lateral size effects. Scientific Reports, 2015, 4, 7527.	1.6	6
96	Topological quantum transitions in a two-band Chern insulator withn= 2. Journal of Physics Condensed Matter, 2015, 27, 045601.	0.7	3
97	Superfluidity of a pure spin current in ultracold Bose gases. Physical Review A, 2015, 91, .	1.0	15
98	Spin-current diode with a ferromagnetic semiconductor. Applied Physics Letters, 2015, 106, .	1.5	10
99	Bipolaronic blockade effect in quantum dots with negative charging energy. Europhysics Letters, 2014, 105, 47006.	0.7	7
100	Orbital Kondo effect in a parallel double quantum dot. Journal of Physics Condensed Matter, 2014, 26, 435301.	0.7	9
101	Contact effects in spin transport along double-helical molecules. Physical Review B, 2014, 89, .	1.1	46
102	Delocalization and scaling properties of low-dimensional quasiperiodic systems. Physical Review B, 2014, 89, .	1.1	11
103	Nonlocal transport in a hybrid two-dimensional topological insulator. Physical Review B, 2014, 89, .	1.1	6
104	Effect of magnetic field on a magnetic topological insulator film with structural inversion asymmetry. Physical Review B, 2014, 89, .	1.1	13
105	The effect of dephasing on edge state transport through pâ€“n junctions in HgTe/CdTe quantum wells. Journal of Physics Condensed Matter, 2014, 26, 085301.	0.7	3
106	Electronic transport through tetrahedron-structured DNA-like system. Frontiers of Physics, 2014, 9, 774-779.	2.4	4
107	Spin-current Seebeck effect in quantum dot systems. Journal of Physics Condensed Matter, 2014, 26, 045302.	0.7	11
108	Transport properties of Floquet topological superconductors at the transition from the topological phase to the Anderson localized phase. Physical Review B, 2014, 90, .	1.1	18

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109	Coexistence and decoupling of bulk and edge states in disordered two-dimensional topological insulators. Physical Review B, 2014, 90, .	1.1	17
110	Coherent single-spin source based on topological insulators. Physical Review B, 2014, 90, .	1.1	13
111	Spin-dependent electron transport in protein-like single-helical molecules. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11658-11662.	3.3	166
112	Dephasing Effect on Backscattering of Helical Surface States in 3D Topological Insulators. Physical Review Letters, 2014, 113, 046805.	2.9	18
113	Spin-polarized<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î½</mml:mi><mml:mo>=</mml:mo><mml:mn>0</mml:mn></mml:mrow></mml:math>state of graphene: A spin superconductor. Physical Review B, 2013, 87, .	1.1	21
114	A disorder induced field effect transistor in bilayer and trilayer graphene. Journal of Physics Condensed Matter, 2013, 25, 105303.	0.7	3
115	Josephson junction on one edge of a two dimensional topological insulator affected by magnetic impurity. Journal of Physics Condensed Matter, 2013, 25, 295301.	0.7	11
116	Ginzburgâ€“Landau-type theory of spin superconductivity. Nature Communications, 2013, 4, 2951.	5.8	15
117	The electric â€œMeissner effectâ€•in spin superconductor. European Physical Journal B, 2013, 86, 1.	0.6	4
118	Universal scheme to generate metalâ€“insulator transition in disordered systems. Journal of Physics Condensed Matter, 2013, 25, 415501.	0.7	1
119	Kondo phase transitions of magnetic impurities in carbon nanotubes. Physical Review B, 2013, 87, .	1.1	4
120	Detection of spinons via spin transport. Physical Review B, 2013, 88, .	1.1	27
121	Controllable valley polarization using graphene multiple topological line defects. Physical Review B, 2013, 87, .	1.1	79
122	Detecting zero-line mode in bilayer graphene via the quantum Hall effect. Physical Review B, 2013, 87, .	1.1	11
123	Time-averaged heat generation in a quantum dot driven by an alternating current bias. Journal of Applied Physics, 2012, 112, 124306.	1.1	16
124	One-dimensional quantum channel in a graphene line defect. Physical Review B, 2012, 86, .	1.1	49
125	Spin-polarized edge modes and snake states in HgTe/CdTe quantum wells under an antisymmetric magnetic field. Physical Review B, 2012, 86, .	1.1	15
126	Topological system with a twisting edge band: A position-dependent Hall resistance. Physical Review B, 2012, 85, .	1.1	1

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127	Spontaneous spin-triplet exciton condensation in ABC-stacked trilayer graphene. Physical Review B, 2012, 86, .	1.1	18
128	Dependence of topological Anderson insulator on the type of disorder. Physical Review B, 2012, 85, .	1.1	67
129	Spin-Selective Transport of Electrons in DNA Double Helix. Physical Review Letters, 2012, 108, 218102.	2.9	248
130	Sequence-dependent spin-selective tunneling along double-stranded DNA. Physical Review B, 2012, 86, .	1.1	68
131	Enhanced spin-polarized transport through DNA double helix by gate voltage. Physical Review B, 2012, 86, .	1.1	54
132	Phonon-assisted transport through quantum dots with normal and superconducting leads. Physical Review B, 2012, 86, .	1.1	25
133	Effect of Zeeman splitting and interlayer bias potential on electron transport in bilayer graphene. Physical Review B, 2012, 86, .	1.1	10
134	Transient heat generation in a quantum dot under a step-like pulse bias. Journal of Physics Condensed Matter, 2012, 24, 415302.	0.7	16
135	Current oscillation of snake states in graphene<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>junction. Physical Review B, 2012, 86, .	1.1	19
136	Effect of magnetic field on electron transport in HgTe/CdTe quantum wells: Numerical analysis. Physical Review B, 2012, 85, .	1.1	58
137	Quantum Andreev effect in two-dimensional HgTe/CdTe quantum well/superconductor systems. Physical Review B, 2011, 83, .	1.1	30
138	Dephasing effect on transport of a graphene pâ€“n junction in a quantum Hall regime. Journal of Physics Condensed Matter, 2011, 23, 495301.	0.7	17
139	Effect of electron-hole inhomogeneity on specular Andreev reflection and Andreev retroreflection in a graphene-superconductor hybrid system. Physical Review B, 2011, 83, .	1.1	31
140	Spin superconductor in ferromagnetic graphene. Physical Review B, 2011, 84, .	1.1	34
141	Phonon-assisted transport through suspended carbon nanotube quantum dots. Physical Review B, 2011, 84, .	1.1	21
142	Parity of specular Andreev reflection under a mirror operation in a zigzag graphene ribbon. Physical Review B, 2011, 83, .	1.1	23
143	Reply to â€œComment on â€˜Scaling feature of magnetic field induced Kondo-peak splittingsâ€™ â€• Physical Review B, 2011, 83, .	1.1	1
144	Quantum thermal Hall effect in graphene. Physical Review B, 2011, 84, .	1.1	18

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145	Theory of quantum spin Hall effect detection by measurements of the polarization resistance. Physical Review B, 2011, 83, .	1.1	3
146	The effect of disorder on the valley-dependent transport in zigzag graphene nanoribbons. Journal of Applied Physics, 2011, 109, 123718.	1.1	8
147	SymGF: a symbolic tool for quantum transport analysis and its application to a double quantum dot system. Journal of Physics Condensed Matter, 2011, 23, 415301.	0.7	3
148	Kondo Effect Versus Magnetic Coupling in Indirectly Coupled Double Quantum Dots. Communications in Theoretical Physics, 2010, 54, 933-937.	1.1	2
149	Scaling feature of magnetic field induced Kondo-peak splittings. Physical Review B, 2010, 82, .	1.1	6
150	Focusing of electron flow in a bipolar graphene ribbon with different chiralities. Physical Review B, 2010, 81, .	1.1	33
151	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>T</mml:mi></mml:math>-Invariant Quantum Spin Hall Effect in Ferromagnetic Graphene. Physical Review Letters, 2010, 104, 066805.	2.9	59
152	Electrical preparation and readout of a single spin state in a quantum dot via spin bias. Physical Review B, 2010, 81, .	1.1	31
153	Electronic transport through a graphene-based ferromagnetic/normal/ferromagnetic junction. Journal of Physics Condensed Matter, 2010, 22, 035301.	0.7	27
154	Effect of disorder on longitudinal resistance of a graphene<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>p</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi>n</mml:mi></mml:mrow></mml:math>junc in the quantum Hall regime. Physical Review B, 2010, 81, .	1.1	18
155	Spin polarization and giant magnetoresistance effect induced by magnetization in zigzag graphene nanoribbons. Physical Review B, 2010, 81, .	1.1	95
156	Enhancement of the thermoelectric figure of merit in a quantum dot due to the Coulomb blockade effect. Physical Review B, 2010, 81, .	1.1	130
157	Topological Insulator: A New Quantized Spin Hall Resistance Robust to Dephasing. Physical Review Letters, 2009, 103, 036803.	2.9	88
158	Electric-current-induced heat generation in a strongly interacting quantum dot in the Coulomb blockade regime. Physical Review B, 2009, 79, .	1.1	47
159	Scanning tunneling spectroscopy of a magnetic atom on graphene in the Kondo regime. Europhysics Letters, 2009, 86, 58004.	0.7	34
160	Nernst and Seebeck effects in a graphene nanoribbon. Physical Review B, 2009, 80, .	1.1	73
161	Controllable Andreev Retroreflection and Specular Andreev Reflection in a Four-Terminal Graphene-Superconductor Hybrid System. Physical Review Letters, 2009, 103, 167003.	2.9	71
162	Quantum transport through a graphene nanoribbonâ€“superconductor junction. Journal of Physics Condensed Matter, 2009, 21, 344204.	0.7	91

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163	Numerical study of the topological Anderson insulator in HgTe/CdTe quantum wells. Physical Review B, 2009, 80, .	1.1	209
164	Spin bias measurement based on a quantum point contact. Applied Physics Letters, 2008, 93, 142107.	1.5	16
165	Josephson current transport through T-shaped double quantum dots. Journal of Physics Condensed Matter, 2008, 20, 505202.	0.7	11
166	Disorder-Induced Enhancement of Transport through Graphene<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mtext mathvariant="normal">â^'</mml:mtext><mml:mi>n</mml:mi></mml:math>Junctions. Physical Review Letters, 2008, 101, 166806.	2.9	147
167	Persistent spin current in nanodevices and definition of the spin current. Physical Review B, 2008, 77, .	1.1	95
168	Influence of dephasing on the quantum Hall effect and the spin Hall effect. Physical Review B, 2008, 77, .	1.1	45
169	Double quantum dot as detector of spin bias. Physical Review B, 2008, 77, .	1.1	48
170	Spin Nernst effect and Nernst effect in two-dimensional electron systems. Physical Review B, 2008, 78, .	1.1	80
171	Transmission phase shift of phonon-assisted tunneling through a quantum dot. Physical Review B, 2008, 77, .	1.1	4
172	Quantum transport through circularly coupled triple quantum dots. Journal of Physics Condensed Matter, 2007, 19, 156213.	0.7	11
173	Measuring the phonon-assisted spectral function by using a nonequilibrium three-terminal single-molecular device. Physical Review B, 2007, 75, .	1.1	18
174	Symmetry and transport property of spin current induced spin-Hall effect. Physical Review B, 2007, 75, .	1.1	32
175	Response time of a normal-metal/superconductor hybrid system under a step-like pulse bias. Physical Review B, 2007, 75, .	1.1	19
176	Heat generation by electric current in mesoscopic devices. Physical Review B, 2007, 75, .	1.1	53
177	Thermal transport in a dielectric T-shaped quantum wire. Physical Review B, 2007, 75, .	1.1	56
178	PERSISTENT SPIN CURRENT IN SPIN-ORBIT COUPLING SYSTEMS IN THE ABSENCE OF AN EXTERNAL MAGNETIC FIELD. International Journal of Modern Physics B, 2007, 21, 3687-3695.	1.0	6
179	Persistent Spin Current in a Mesoscopic Hybrid Ring with Spin-Orbit Coupling. Physical Review Letters, 2007, 98, 196801.	2.9	68
180	Bias-controllable intrinsic spin polarization in a quantum dot: Proposed scheme based on spin-orbit interaction. Physical Review B, 2006, 73, .	1.1	127

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181	Generating spin current using an ac magnetic field. Physical Review B, 2006, 73, .	1.1	8
182	A spin polarized device constructed with spinâ€“orbit coupled semiconductors. Journal of Physics Condensed Matter, 2006, 18, 10553-10560.	0.7	3
183	Nature of spin Hall effect in a finite ballistic two-dimensional system with Rashba and Dresselhaus spin-orbit interaction. Physical Review B, 2006, 73, .	1.1	29
184	Accumulation of opposite spins on the transverse edges of a two-dimensional electron gas in a longitudinal electric field. Physical Review B, 2006, 74, .	1.1	23
185	Numerical simulations of a ballistic spin interferometer with Rashba spin-orbital interaction. Physical Review B, 2006, 74, .	1.1	12
186	Spontaneous spin-polarized current in a nonuniform Rashba interaction system. Physical Review B, 2005, 71, .	1.1	100
187	Kondo transport through serially coupled triple quantum dots. Physical Review B, 2005, 72, .	1.1	50
188	Definition of the spin current: The angular spin current and its physical consequences. Physical Review B, 2005, 72, .	1.1	136
189	Quantum transport theory for nanostructures with Rashba spin-orbital interaction. Physical Review B, 2005, 71, .	1.1	295
190	Do Intradot Electron-Electron Interactions Induce Dephasing?. Physical Review Letters, 2004, 93, 076802.	2.9	15
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