List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Generation and transport of valley-polarized current in transition-metal dichalcogenides. Physical Review B, 2014, 90, .	3.2	147
2	Electrical contacts to monolayer black phosphorus: A first-principles investigation. Physical Review B, 2014, 90, .	3.2	122
3	Photogalvanic effect in monolayer black phosphorus. Nanotechnology, 2015, 26, 455202.	2.6	118
4	RESCU: A real space electronic structure method. Journal of Computational Physics, 2016, 307, 593-613.	3.8	89
5	Inkjet Printing Shortâ€Channel Polymer Transistors with Highâ€Performance and Ultrahigh Photoresponsivity. Advanced Materials, 2014, 26, 4683-4689.	21.0	82
6	Topological Anderson insulator phenomena. Physical Review B, 2011, 84, .	3.2	72
7	Molecular Spintronics: Destructive Quantum Interference Controlled by a Gate. Journal of the American Chemical Society, 2014, 136, 15065-15071.	13.7	65
8	Experimental observation of non-Abelian topological charges and edge states. Nature, 2021, 594, 195-200.	27.8	61
9	Topological One-Way Large-Area Waveguide States in Magnetic Photonic Crystals. Physical Review Letters, 2021, 126, 067401.	7.8	53
10	Giant tunneling electroresistance in two-dimensional ferroelectric tunnel junctions with out-of-plane ferroelectric polarization. Physical Review B, 2020, 101, .	3.2	52
11	<i>h</i> -BN/graphene van der Waals vertical heterostructure: a fully spin-polarized photocurrent generator. Nanoscale, 2018, 10, 174-183.	5.6	49
12	Twist-induced control of near-field heat radiation between magnetic Weyl semimetals. ACS Photonics, 2021, 8, 443-448.	6.6	46
13	Pure spin current generation via photogalvanic effect with spatial inversion symmetry. Physical Review B, 2020, 102, .	3.2	43
14	Photogalvanic effect induced fully spin polarized current and pure spin current in zigzag SiC nanoribbons. Physical Chemistry Chemical Physics, 2018, 20, 26744-26751.	2.8	42
15	First-principles investigation of transient current in molecular devices by using complex absorbing potentials. Physical Review B, 2013, 87, .	3.2	39
16	Experiment and DFT study on the photocatalytic properties of La-doped Bi2WO6 nanoplate-like materials. Applied Surface Science, 2022, 579, 152219.	6.1	37
17	First-principles investigation of transient dynamics of molecular devices. Physical Review B, 2012, 86, .	3.2	36
18	Valley caloritronics and its realization by graphene nanoribbons. Physical Review B, 2015, 92, .	3.2	35

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19	Realizing giant tunneling electroresistance in two-dimensional graphene/BiP ferroelectric tunnel junction. Nanoscale, 2019, 11, 16837-16843.	5.6	35
20	Transient dynamics of molecular devices under a steplike pulse bias. Physical Review B, 2010, 81, .	3.2	29
21	Anderson Localization from the Berry-Curvature Interchange in Quantum Anomalous Hall Systems. Physical Review Letters, 2016, 117, 056802.	7.8	29
22	Tuning a zigzag SiC nanoribbon as a thermal spin current generator. 2D Materials, 2017, 4, 035001.	4.4	29
23	Perfect spin and valley polarized quantum transport in twisted SiC nanoribbons. 2D Materials, 2017, 4, 025013.	4.4	27
24	Electric control of spin in monolayer WSe ₂ field effect transistors. Nanotechnology, 2014, 25, 435201.	2.6	26
25	Largely Enhanced Photogalvanic Effects in a Phosphorene Photodetector by Strain-Increased Device Asymmetry. Physical Review Applied, 2020, 14, .	3.8	26
26	Giant tunnel electroresistance in ferroelectric tunnel junctions with metal contacts to two-dimensional ferroelectric materials. Physical Review B, 2021, 103, .	3.2	26
27	Oscillation of dynamic conductance of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Al-C</mml:mtext></mml:mrow><mml:mi> Nonequilibrium Green's function and density functional theory study. Physical Review B, 2009, 79, .</mml:mi></mml:msub></mml:mrow></mml:math>	n< \$ra ml:rr	ni> 2þ mml:msu
28	Fabrication and Biosensing with CNT/Aligned Mesostructured Silica Coreâ^'Shell Nanowires. ACS Applied Materials & Interfaces, 2010, 2, 2767-2772.	8.0	25
29	Universal transport properties of three-dimensional topological insulator nanowires. Physical Review B, 2014, 89, .	3.2	24
30	Influence of dephasing and B/N doping on valley Seebeck effect in zigzag graphene nanoribbons. Carbon, 2018, 126, 183-189.	10.3	22
31	Gate-tunable large spin polarization in a few-layer black phosphorus-based spintronic device. Nanoscale, 2019, 11, 11872-11878.	5.6	19
32	Near-Field Energy Transfer between Graphene and Magneto-Optic Media. Physical Review Letters, 2021, 127, 247401.	7.8	19
33	First-principles calculation of current density in molecular devices. Physical Review B, 2011, 84, .	3.2	18
34	Robust generation of half-metallic transport and pure spin current with photogalvanic effect in zigzag silicene nanoribbons. Journal of Physics Condensed Matter, 2019, 31, 495701.	1.8	18
35	Pure spin current generation with photogalvanic effect in graphene interconnect junctions. Nanophotonics, 2021, 10, 1701-1709.	6.0	18
36	Realizing robust half-metallic transport with chemically modified graphene nanoribbons. Carbon, 2019, 141, 676-684.	10.3	17

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37	Gate controllable optical spin current generation in zigzag graphene nanoribbon. Carbon, 2021, 173, 565-571.	10.3	17
38	Two-Dimensional Î ³ -Graphyne Suspended on Si(111): A Hybrid Device. Journal of Physical Chemistry C, 2016, 120, 4605-4611.	3.1	16
39	First-principles investigation of alternating current density distribution in molecular devices. Physical Review B, 2012, 86, .	3.2	15
40	A novel electrically controllable volatile memory device based on few-layer black phosphorus. Journal of Materials Chemistry C, 2018, 6, 2460-2466.	5.5	15
41	Influence of surface charges on the emission polarization properties of single CdSe/CdS dot-in-rods. Frontiers of Physics, 2019, 14, 1.	5.0	13
42	First principles calculation of ac conductance for Al-BDT-Al and Al-Cn-Al systems. AIP Advances, 2011, 1, 042180.	1.3	12
43	Investigation of transient heat current from first principles using complex absorbing potential. Physical Review B, 2014, 90, .	3.2	12
44	An electrically switchable anti-ferroelectric bilayer In ₂ Se ₃ based opto-spintronic device. Nanoscale, 2021, 13, 8555-8561.	5.6	12
45	Thermal rectification in a double quantum dots system with a polaron effect. Physical Review B, 2018, 97, .	3.2	11
46	Spin current generation by thermal gradient in graphene/ <i>h</i> -BN/graphene lateral heterojunctions. Journal Physics D: Applied Physics, 2019, 52, 015303.	2.8	11
47	Antichiral edge states and hinge states based on the Haldane model. Physical Review B, 2021, 104, .	3.2	11
48	Giant Tunneling Electroresistance Induced by Interfacial Doping in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Pt</mml:mi><mml:mo>/</mml:mo><mml:mrow><mml:mrow mathvariant="normal">O</mml:mrow </mml:mrow></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mrow< td=""><td>ni>Bask/mm w>≺mml:r</td><td>nl:mi><mml:m no>/</mml:m </td></mml:mrow<></mml:math 	ni> Ba sk/mm w>≺mml:r	nl:m i > <mml:m no>/</mml:m
49	Ferroelectric Tunnel Junctions. Physical Review Applied, 2022, 17, . Large tunnel magnetoresistance ratio in Fe/O/NaCl/O/Fe. Journal of Applied Physics, 2015, 118, 093902.	2.5	10
50	Enhancement of shot noise due to the fluctuation of Coulomb interaction. Physical Review B, 2012, 85,	3.2	9
51	Enhancing the spin transfer torque in magnetic tunnel junctions by ac modulation. Physical Review B, 2017, 95, .	3.2	7
52	First-principles investigation of transient spin transfer torque in magnetic multilayer systems. Physical Review B, 2017, 96, .	3.2	7
53	Domain-wall induced giant tunneling electroresistance effect in two-dimensional Graphene/In2Se3 ferroelectric tunnel junctions. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 133, 114783.	2.7	7
54	Site and length dependent quantum interference and resonance in the electron transport of armchair carbon nanotube molecular junctions. Physical Chemistry Chemical Physics, 2022, 24, 8032-8040.	2.8	7

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55	Full counting statistics of conductance for disordered systems. Physical Review B, 2017, 96, .	3.2	6
56	Giant magnetoresistance and dual spin filtering effect in ferromagnetic 6,6,12/γ-graphyne zigzag nanoribbon lateral heterojunction. Physical Chemistry Chemical Physics, 2020, 22, 18548-18555.	2.8	6
57	Flexible engineering of light emission in monolayer MoS2 via direct laser writing for multimode optical recording. AIP Advances, 2020, 10, 045230.	1.3	6
58	Flexible electromagnetic manipulation by topological one-way large-area waveguide states. Physical Review B, 2022, 105, .	3.2	6
59	Entanglement entropy fluctuation and distribution for open systems. Physical Review B, 2017, 95, .	3.2	5
60	Visualizing Quantum Coherence Based on Single-Molecule Coherent Modulation Microscopy. Nano Letters, 2021, 21, 1477-1483.	9.1	4
61	Negative differential resistance in GeSi core–shell transport junctions: the role of local sp2hybridization. Nanoscale, 2016, 8, 16026-16033.	5.6	3
62	Realizing fully spin polarized transport in graphene nanoribbons with design of van der Waals vertical heterostructure leads. Journal Physics D: Applied Physics, 2018, 51, 385301.	2.8	3
63	Giant tunneling electroresistance arising from reversible partial barrier metallization in the NaTiO ₃ /BaTiO ₃ /LaTiO ₃ ferroelectric tunnel junction. Physical Chemistry Chemical Physics, 2021, 23, 16349-16356.	2.8	3
64	Quantum transport investigation of anomalous Hall resistance in four-probe magnetic nanostructures. Physical Review B, 2016, 94, .	3.2	2
65	Frequency-dependent transport properties in disordered systems: A generalized coherent potential approximation approach. Physical Review B, 2019, 99, .	3.2	2
66	Gain-induced large optical torque in optical twist settings. Chinese Physics B, 2020, 29, 084201.	1.4	2
67	Gate tunable self-powered few-layer black phosphorus broadband photodetector. Physical Chemistry Chemical Physics, 2021, 23, 399-404.	2.8	2
68	First-principles investigation of quantum transport through an endohedral N@C ₆₀ in the Coulomb blockade regime. Journal of Physics Condensed Matter, 2013, 25, 495302.	1.8	1
69	First-principles investigation of transient current of molecular devices by using complex absorbing potential. , 2013, , .		1
70	Magnetization dynamics induced by the Rashba effect in ferromagnetic films. Nanoscale, 2018, 10, 18728-18733.	5.6	1