

Rui-Qiang Wang

List of Publications by Year in descending order

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47
papers

618
citations

759233

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all docs

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docs citations

47
times ranked

518
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear antidamping spin-orbit torque originating from intraband transport on the warped surface of a topological insulator. <i>Physical Review B</i> , 2022, 105, .	3.2	3
2	The prolonged decay of RKKY interactions by interplay of relativistic and non-relativistic electrons in semi-Dirac semimetals. <i>New Journal of Physics</i> , 2022, 24, 033029.	2.9	2
3	Photon-modulated linear and nonlinear anomalous Hall effects in type-II semi-Dirac semimetals. <i>Physical Review B</i> , 2022, 105, .	3.2	5
4	Effect of chiral anomaly on Andreev reflection in a tilted Weyl semimetal hybrid junction. <i>Physical Review B</i> , 2021, 103, .	3.2	3
5	Anomalous Hall optical conductivity in tilted topological nodal-line semimetals. <i>Physical Review B</i> , 2021, 103, .	3.2	7
6	Theory for linear and nonlinear planar Hall effect in topological insulator thin films. <i>Physical Review B</i> , 2021, 103, .	3.2	19
7	Nontopological chiral chemical potential due to the Zeeman field in magnetic Weyl semimetals. <i>Physical Review B</i> , 2021, 104, .	3.2	5
8	Spin-Momentum Locking Induced Anisotropic Magnetoresistance in Monolayer WTe_2 . <i>Nano Letters</i> , 2021, 21, 9005-9011.	9.1	7
9	Nonlinear Ballistic Response of Quantum Spin Hall Edge States. <i>Physical Review Letters</i> , 2021, 127, 206801.	7.8	11
10	Double Andreev reflections at surface states of the topological insulators with hexagonal warping. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	5
11	Anisotropic RKKY interactions in nodal-line semimetals. <i>Physical Review B</i> , 2020, 102, .	3.2	6
12	Electrically tunable Kondo effect as a direct measurement of the chiral anomaly in disordered Weyl semimetals. <i>Physical Review B</i> , 2020, 101, .	3.2	5
13	Photoinduced anisotropic edge states and signatures of nonequilibrium spin polarization in silicene nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126429.	2.1	1
14	Vortex of beam shift induced by mono-chiral interface states. <i>New Journal of Physics</i> , 2020, 22, 033015.	2.9	8
15	Origin of planar Hall effect on the surface of topological insulators: Tilt of Dirac cone by an in-plane magnetic field. <i>Physical Review B</i> , 2020, 101, .	3.2	41
16	Chiral-anomaly-induced angular narrowing of the positive longitudinal magnetoconductivity in Weyl semimetals. <i>Physical Review Research</i> , 2020, 2, .	3.6	7
17	Exploration of Spin-Dependent Thermoelectricity in the Chiral Double-Stranded DNA Molecule Coupled to Ferromagnetic Leads. <i>Physical Review Applied</i> , 2019, 12, .	3.8	6
18	Photon-Induced Weyl Half-Metal Phase and Spin Filter Effect from Topological Dirac Semimetals. <i>Physical Review Letters</i> , 2019, 123, 206601.	7.8	28

#	ARTICLE	IF	CITATIONS
19	Josephson signatures of Weyl node creation and annihilation in irradiated Dirac semimetals. Physical Review B, 2019, 100, .	3.2	8
20	Quantum Oscillations of the Positive Longitudinal Magnetoconductivity: A Fingerprint for Identifying Weyl Semimetals. Physical Review Letters, 2019, 122, 036601.	7.8	49
21	In-plane magnetization effect on current-induced spin-orbit torque in a ferromagnet/topological insulator bilayer with hexagonal warping. Physical Review B, 2019, 99, .	3.2	11
22	Quantum oscillation modulated angular dependence of the positive longitudinal magnetoconductivity and planar Hall effect in Weyl semimetals. Physical Review B, 2019, 99, .	3.2	22
23	Signature of indirect magnetic interaction in the crossover from type-I to type-II Weyl semimetals. Physical Review B, 2019, 99, .	3.2	8
24	Superconducting states and Majorana modes in transition-metal dichalcogenides under inhomogeneous strain. Physical Review B, 2019, 99, .	3.2	7
25	Electronic non-coplanar refraction and deflected diffraction of Weyl-node-mismatch junctions. New Journal of Physics, 2019, 21, 113057.	2.9	11
26	Positive longitudinal spin magnetoconductivity in Z^2 topological Dirac semimetals. Physical Review B, 2019, 100, .	3.2	6
27	Dynamic conductivity modified by impurity resonant states in doping three-dimensional Dirac semimetals. Frontiers of Physics, 2018, 13, 1.	5.0	3
28	Anomalous Nernst effect on a magnetically doped topological insulator surface: A Green's function approach. Physical Review B, 2018, 98, .	3.2	5
29	Indirect magnetic interaction mediated by Fermi arc and boundary reflection near Weyl semimetal surface. New Journal of Physics, 2018, 20, 103008.	2.9	14
30	Transport theory for electrical detection of the spin-momentum locking of topological surface states. Journal of Physics Condensed Matter, 2018, 30, 335404.	1.8	2
31	Bulk RKKY signatures of topological phase transition in silicene. Scientific Reports, 2018, 8, 6185.	3.3	11
32	Photon-modulated impurity scattering on a topological insulator surface. Physical Review B, 2017, 95, .	3.2	5
33	Anisotropic RKKY interaction and modulation with mechanical strain in phosphorene. New Journal of Physics, 2017, 19, 103010.	2.9	18
34	Phase transitions in three-dimensional Dirac semimetal induced by off-resonant circularly polarized light. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3499-3504.	2.1	9
35	Effect of impurity resonant states on optical and thermoelectric properties on the surface of a topological insulator. Scientific Reports, 2017, 7, 3971.	3.3	18
36	Weyl semimetal induced from a Dirac semimetal by magnetic doping. Physical Review B, 2017, 96, .	3.2	24

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37	Collimation and splitting of valley electron diffraction in graphene. <i>Physical Review B</i> , 2016, 94, .	3.2	8
38	Resonance states and beating pattern induced by quantum impurity scattering in Weyl/Dirac semimetals. <i>Scientific Reports</i> , 2016, 6, 36106.	3.3	11
39	Tunable Dirac-point resonance induced by a STM-coupled Anderson impurity on a topological insulator surface. <i>New Journal of Physics</i> , 2016, 18, 093040.	2.9	5
40	Electrically tunable Dirac-point resonance induced by a nanomagnet absorbed on the topological insulator surface. <i>Physical Review B</i> , 2015, 91, .	3.2	13
41	Valley-dependent gauge fields for ultracold atoms in square optical superlattices. <i>Physical Review A</i> , 2014, 89, .	2.5	5
42	Generation of adjustable pure spin currents in negative-U systems. <i>Frontiers of Physics</i> , 2014, 9, 477-482.	5.0	1
43	Electronic scattering of pseudo-magnetic field induced by local bump in graphene. <i>Journal of Applied Physics</i> , 2012, 112, 073710.	2.5	6
44	Conductance oscillation of graphene nanoribbon with tilted p-n junction. <i>Journal of Applied Physics</i> , 2012, 111, 083708.	2.5	4
45	Quantum Hall-like effect in gated four-terminal graphene devices without magnetic field. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	3
46	Thermoelectric Effect in Single-Molecule-Magnet Junctions. <i>Physical Review Letters</i> , 2010, 105, 057202.	7.8	112
47	Spin-dependent inelastic transport through single-molecule junctions with ferromagnetic electrodes. <i>Physical Review B</i> , 2007, 75, .	3.2	50