

Rui-Qiang Wang

List of Publications by Year in descending order

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47
papers

618
citations

759233

12
h-index

642732

23
g-index

47
all docs

47
docs citations

47
times ranked

518
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoelectric Effect in Single-Molecule-Magnet Junctions. <i>Physical Review Letters</i> , 2010, 105, 057202.	7.8	112
2	Spin-dependent inelastic transport through single-molecule junctions with ferromagnetic electrodes. <i>Physical Review B</i> , 2007, 75, .	3.2	50
3	Quantum Oscillations of the Positive Longitudinal Magnetoconductivity: A Fingerprint for Identifying Weyl Semimetals. <i>Physical Review Letters</i> , 2019, 122, 036601.	7.8	49
4	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
5	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
6	Weyl semimetal induced from a Dirac semimetal by magnetic doping. <i>Physical Review B</i> , 2017, 96, .	3.2	24
7	Quantum oscillation modulated angular dependence of the positive longitudinal magnetoconductivity and planar Hall effect in Weyl semimetals. <i>Physical Review B</i> , 2019, 99, .	3.2	22
8	Theory for linear and nonlinear planar Hall effect in topological insulator thin films. <i>Physical Review B</i> , 2021, 103, .	3.2	19
9	Anisotropic RKKY interaction and modulation with mechanical strain in phosphorene. <i>New Journal of Physics</i> , 2017, 19, 103010.	2.9	18
10	Effect of impurity resonant states on optical and thermoelectric properties on the surface of a topological insulator. <i>Scientific Reports</i> , 2017, 7, 3971.	3.3	18
11	Indirect magnetic interaction mediated by Fermi arc and boundary reflection near Weyl semimetal surface. <i>New Journal of Physics</i> , 2018, 20, 103008.	2.9	14
12	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
13	Resonance states and beating pattern induced by quantum impurity scattering in Weyl/Dirac semimetals. <i>Scientific Reports</i> , 2016, 6, 36106.	3.3	11
14	Bulk RKKY signatures of topological phase transition in silicene. <i>Scientific Reports</i> , 2018, 8, 6185.	3.3	11
15	In-plane magnetization effect on current-induced spin-orbit torque in a ferromagnet/topological insulator bilayer with hexagonal warping. <i>Physical Review B</i> , 2019, 99, .	3.2	11
16	Electronic non-coplanar refraction and deflected diffraction of Weyl-node-mismatch junctions. <i>New Journal of Physics</i> , 2019, 21, 113057.	2.9	11
17	Nonlinear Ballistic Response of Quantum Spin Hall Edge States. <i>Physical Review Letters</i> , 2021, 127, 206801.	7.8	11
18	Phase transitions in three-dimensional Dirac semimetal induced by off-resonant circularly polarized light. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 3499-3504.	2.1	9

#	ARTICLE	IF	CITATIONS
19	Collimation and splitting of valley electron diffraction in graphene. <i>Physical Review B</i> , 2016, 94, .	3.2	8
20	Josephson signatures of Weyl node creation and annihilation in irradiated Dirac semimetals. <i>Physical Review B</i> , 2019, 100, .	3.2	8
21	Signature of indirect magnetic interaction in the crossover from type-I to type-II Weyl semimetals. <i>Physical Review B</i> , 2019, 99, .	3.2	8
22	Vortex of beam shift induced by mono-chiral interface states. <i>New Journal of Physics</i> , 2020, 22, 033015.	2.9	8
23	Superconducting states and Majorana modes in transition-metal dichalcogenides under inhomogeneous strain. <i>Physical Review B</i> , 2019, 99, .	3.2	7
24	Anomalous Hall optical conductivity in tilted topological nodal-line semimetals. <i>Physical Review B</i> , 2021, 103, .	3.2	7
25	Chiral-anomaly-induced angular narrowing of the positive longitudinal magnetoconductivity in Weyl semimetals. <i>Physical Review Research</i> , 2020, 2, .	3.6	7
26	Spin-Momentum Locking Induced Anisotropic Magnetoresistance in Monolayer WTe_2 . <i>Nano Letters</i> , 2021, 21, 9005-9011.	9.1	7
27	Electronic scattering of pseudo-magnetic field induced by local bump in graphene. <i>Journal of Applied Physics</i> , 2012, 112, 073710.	2.5	6
28	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
29	Positive longitudinal spin magnetoconductivity in $2Z$ topological Dirac semimetals. <i>Physical Review B</i> , 2019, 100, .	3.2	6
30	Anisotropic RKKY interactions in nodal-line semimetals. <i>Physical Review B</i> , 2020, 102, .	3.2	6
31	Valley-dependent gauge fields for ultracold atoms in square optical superlattices. <i>Physical Review A</i> , 2014, 89, .	2.5	5
32	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
33	Photon-modulated impurity scattering on a topological insulator surface. <i>Physical Review B</i> , 2017, 95, .	3.2	5
34	Anomalous Nernst effect on a magnetically doped topological insulator surface: A Green's function approach. <i>Physical Review B</i> , 2018, 98, .	3.2	5
35	Double Andreev reflections at surface states of the topological insulators with hexagonal warping. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	5
36	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

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37	Nontopological chiral chemical potential due to the Zeeman field in magnetic Weyl semimetals. <i>Physical Review B</i> , 2021, 104, .	3.2	5
38	Photon-modulated linear and nonlinear anomalous Hall effects in type-II semi-Dirac semimetals. <i>Physical Review B</i> , 2022, 105, .	3.2	5
39	Conductance oscillation of graphene nanoribbon with tilted p-n junction. <i>Journal of Applied Physics</i> , 2012, 111, 083708.	2.5	4
40	Quantum Hall-like effect in gated four-terminal graphene devices without magnetic field. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	3
41	Dynamic conductivity modified by impurity resonant states in doping three-dimensional Dirac semimetals. <i>Frontiers of Physics</i> , 2018, 13, 1.	5.0	3
42	Effect of chiral anomaly on Andreev reflection in a tilted Weyl semimetal hybrid junction. <i>Physical Review B</i> , 2021, 103, .	3.2	3
43	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
44	Transport theory for electrical detection of the spin-momentum locking of topological surface states. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 335404.	1.8	2
45	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
46	Generation of adjustable pure spin currents in negative-U systems. <i>Frontiers of Physics</i> , 2014, 9, 477-482.	5.0	1
47	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