

Guoqing Chang

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73 papers	9,361 citations	39 h-index	79 g-index
79 ext. papers	11,978 ext. citations	13.1 avg, IF	5.61 L-index

#	Paper	IF	Citations
73	TOPOLOGICAL MATTER. Discovery of a Weyl fermion semimetal and topological Fermi arcs. <i>Science</i> , 2015 , 349, 613-7	33.3	2165
72	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monopnictide TaAs class. <i>Nature Communications</i> , 2015 , 6, 7373	17.4	1068
71	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. <i>Nature Physics</i> , 2015 , 11, 748-754	16.2	674
70	Topological nodal-line fermions in spin-orbit metal PbTaSe ₂ . <i>Nature Communications</i> , 2016 , 7, 10556	17.4	514
69	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. <i>Nature Communications</i> , 2016 , 7, 10735	17.4	455
68	Experimental discovery of a topological Weyl semimetal state in TaP. <i>Science Advances</i> , 2015 , 1, e1501092	14.3	241
67	Prediction of an arc-tunable Weyl Fermion metallic state in Mo(x)W(1-x)Te ₂ . <i>Nature Communications</i> , 2016 , 7, 10639	17.4	216
66	Drumhead surface states and topological nodal-line fermions in TlTaSe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	201
65	New type of Weyl semimetal with quadratic double Weyl fermions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1180-5	11.5	199
64	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. <i>Science</i> , 2019 , 365, 1278-1281	33.3	187
63	Direct optical detection of Weyl fermion chirality in a topological semimetal. <i>Nature Physics</i> , 2017 , 13, 842-847	16.2	184
62	Unconventional Chiral Fermions and Large Topological Fermi Arcs in RhSi. <i>Physical Review Letters</i> , 2017 , 119, 206401	7.4	154
61	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe ₂ . <i>Nature Physics</i> , 2018 , 14, 900-906	16.2	143
60	Discovery of a new type of topological Weyl fermion semimetal state in MoWTe. <i>Nature Communications</i> , 2016 , 7, 13643	17.4	134
59	Negative flat band magnetism in a spin-orbit-coupled correlated kagome magnet. <i>Nature Physics</i> , 2019 , 15, 443-448	16.2	132
58	Giant and anisotropic many-body spin-orbit tunability in a strongly correlated kagome magnet. <i>Nature</i> , 2018 , 562, 91-95	50.4	132
57	Topological quantum properties of chiral crystals. <i>Nature Materials</i> , 2018 , 17, 978-985	27	129

56	Topological chiral crystals with helicoid-arc quantum states. <i>Nature</i> , 2019 , 567, 500-505	50.4	126
55	Topological Hopf and Chain Link Semimetal States and Their Application to Co ₂ MnGa. <i>Physical Review Letters</i> , 2017 , 119, 156401	7.4	125
54	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. <i>Science Advances</i> , 2017 , 3, e1603266	14.3	124
53	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler CoTiX (X=Si, Ge, or Sn). <i>Scientific Reports</i> , 2016 , 6, 38839	4.9	113
52	Type-II Symmetry-Protected Topological Dirac Semimetals. <i>Physical Review Letters</i> , 2017 , 119, 026404	7.4	112
51	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. <i>Physical Review Letters</i> , 2016 , 116, 066802	7.4	107
50	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate Mo _{1-x} W _x Te ₂ . <i>Physical Review B</i> , 2016 , 94,	3.3	106
49	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. <i>Physical Review B</i> , 2015 , 92,	3.3	102
48	Nexus fermions in topological symmorphic crystalline metals. <i>Scientific Reports</i> , 2017 , 7, 1688	4.9	97
47	A strongly robust type II Weyl fermion semimetal state in TaS. <i>Science Advances</i> , 2016 , 2, e1600295	14.3	95
46	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. <i>ACS Nano</i> , 2016 , 10, 1378-85	16.7	93
45	Dirac mass generation from crystal symmetry breaking on the surfaces of topological crystalline insulators. <i>Nature Materials</i> , 2015 , 14, 318-24	27	93
44	Unconventional chiral charge order in kagome superconductor KVSb. <i>Nature Materials</i> , 2021 , 20, 1353-1357	15.7	86
43	Magnetic and noncentrosymmetric Weyl fermion semimetals in the RAlGe family of compounds (R=rareearth). <i>Physical Review B</i> , 2018 , 97,	3.3	74
42	Quantum-limit Chern topological magnetism in TbMnSn. <i>Nature</i> , 2020 , 583, 533-536	50.4	74
41	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. <i>Physical Review Letters</i> , 2016 , 116, 096801	7.4	72
40	Magnetic-tunnelling-induced Weyl node annihilation in TaP. <i>Nature Physics</i> , 2017 , 13, 979-986	16.2	63
39	Topological Dirac surface states and superconducting pairing correlations in PbTaSe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	58

38	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. <i>Nature Communications</i> , 2017 , 8, 942	17.4	57
37	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. <i>Physical Review Letters</i> , 2016 , 117, 266804	7.4	50
36	Tunable anomalous Hall conductivity through volume-wise magnetic competition in a topological kagome magnet. <i>Nature Communications</i> , 2020 , 11, 559	17.4	47
35	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. <i>Physical Review Letters</i> , 2016 , 116, 066601	7.4	43
34	Multiple unpinned Dirac points in group-Va single-layers with phosphorene structure. <i>Npj Computational Materials</i> , 2016 , 2,	10.9	38
33	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. <i>Science Advances</i> , 2017 , 3, e1501692	14.3	36
32	Thickness-Dependent Ultrafast Photonics of SnS ₂ Nanolayers for Optimizing Fiber Lasers. <i>ACS Applied Nano Materials</i> , 2019 , 2, 2697-2705	5.6	35
31	Ultrafast Fiber Lasers: An Expanding Versatile Toolbox. <i>IScience</i> , 2020 , 23, 101101	6.1	26
30	Observation of Effective Pseudospin Scattering in ZrSiS. <i>Nano Letters</i> , 2017 , 17, 7213-7217	11.5	22
29	Intrinsic nature of chiral charge order in the kagome superconductor RbV ₃ Sb ₅ . <i>Physical Review B</i> , 2021 , 104,	3.3	22
28	Crystal growth and quantum oscillations in the topological chiral semimetal CoSi. <i>Physical Review B</i> , 2019 , 100,	3.3	21
27	Unconventional Photocurrents from Surface Fermi Arcs in Topological Chiral Semimetals. <i>Physical Review Letters</i> , 2020 , 124, 166404	7.4	20
26	Spin-orbit quantum impurity in a topological magnet. <i>Nature Communications</i> , 2020 , 11, 4415	17.4	20
25	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. <i>2D Materials</i> , 2016 , 3, 021009	5.9	19
24	Ultraquantum magnetoresistance in the Kramers-Weyl semimetal candidate Ag ₂ Se. <i>Physical Review B</i> , 2017 , 96,	3.3	18
23	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. <i>Nature Communications</i> , 2020 , 11, 3356	17.4	18
22	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. <i>Physical Review Letters</i> , 2017 , 119, 196403	7.4	17
21	Electronic nature of chiral charge order in the kagome superconductor CsV ₃ Sb ₅ . <i>Physical Review B</i> , 2021 , 104,	3.3	17

20	Interplay of orbital effects and nanoscale strain in topological crystalline insulators. <i>Nature Communications</i> , 2018 , 9, 1550	17.4	16
19	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. <i>Physical Review B</i> , 2020 , 101,	3.3	15
18	Quasiparticle Interference on Cubic Perovskite Oxide Surfaces. <i>Physical Review Letters</i> , 2017 , 119, 086801	7.4	15
17	Fermion-boson many-body interplay in a frustrated kagome paramagnet. <i>Nature Communications</i> , 2020 , 11, 4003	17.4	14
16	Multimodal imaging platform for optical virtual skin biopsy enabled by a fiber-based two-color ultrafast laser source. <i>Biomedical Optics Express</i> , 2019 , 10, 514-525	3.5	13
15	Enhanced anomalous Hall effect in the magnetic topological semimetal $\text{Co}_3\text{Sn}_2\text{In}_x\text{S}_2$. <i>Physical Review B</i> , 2020 , 101,	3.3	13
14	Tunable double-Weyl Fermion semimetal state in the SrSi materials class. <i>Scientific Reports</i> , 2018 , 8, 105409	7.4	13
13	Weyl, Dirac and high-fold chiral fermions in topological quantum matter. <i>Nature Reviews Materials</i> , 2021 , 6, 784-803	73.3	13
12	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. <i>Physical Review B</i> , 2015 , 91,	3.3	12
11	Many-Body Resonance in a Correlated Topological Kagome Antiferromagnet. <i>Physical Review Letters</i> , 2020 , 125, 046401	7.4	12
10	Quantum Phase Transition of Correlated Iron-Based Superconductivity in $\text{LiFe}_{1-x}\text{Co}_x\text{As}$. <i>Physical Review Letters</i> , 2019 , 123, 217004	7.4	11
9	Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. <i>Physical Review B</i> , 2019 , 99,	3.3	8
8	Nanoscale determination of the mass enhancement factor in the lightly doped bulk insulator lead selenide. <i>Nature Communications</i> , 2015 , 6, 6559	17.4	8
7	Searching for topological Fermi arcs via quasiparticle interference on a type-II Weyl semimetal MoTe_2 . <i>Npj Quantum Materials</i> , 2018 , 3,	5	8
6	Observation of sixfold degenerate fermions in PdSb_2 . <i>Physical Review B</i> , 2020 , 101,	3.3	6
5	Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet.. <i>Physical Review Letters</i> , 2021 , 127, 256403	7.4	3
4	Field-Induced Metal-Insulator Transition in EuP_3 . <i>Chinese Physics Letters</i> , 2020 , 37, 107501	1.8	3
3	Efficient generation of UV-enhanced intense supercontinuum in solids: Toward sub-cycle transient. <i>Applied Physics Letters</i> , 2021 , 118, 261102	3.4	1

2	Pre-Chirp-Managed Adiabatic Soliton Compression in Pressure-Gradient Hollow-Core Fibers. <i>Photonics</i> , 2021 , 8, 357	2.2	1
1	Observation of a linked-loop quantum state in a topological magnet.. <i>Nature</i> , 2022 , 604, 647-652	50.4	1