Guoqing Chang

List of Publications by Year in Descending Order

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	Observation of a linked-loop quantum state in a topological magnet.. *Nature*, **2022**, 604, 647-652	50.4	1
72	Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet.. *Physical Review Letters*, **2021**, 127, 256403	7.4	3
71	Weyl, Dirac and high-fold chiral fermions in topological quantum matter. *Nature Reviews Materials*, **2021**, 6, 784-803	73.3	13
70	Efficient generation of UV-enhanced intense supercontinuum in solids: Toward sub-cycle transient. *Applied Physics Letters*, **2021**, 118, 261102	3.4	1
69	Unconventional chiral charge order in kagome superconductor KVSb. *Nature Materials*, **2021**, 20, 1353-1357	27	86
68	Intrinsic nature of chiral charge order in the kagome superconductor RbV3Sb5. *Physical Review B*, **2021**, 104,	3.3	22
67	Electronic nature of chiral charge order in the kagome superconductor CsV3Sb5. *Physical Review B*, **2021**, 104,	3.3	17
66	Pre-Chirp-Managed Adiabatic Soliton Compression in Pressure-Gradient Hollow-Core Fibers. *Photonics*, **2021**, 8, 357	2.2	1
65	Observation of sixfold degenerate fermions in PdSb2. *Physical Review B*, **2020**, 101,	3.3	6
64	Ultrafast Fiber Lasers: An Expanding Versatile Toolbox. *IScience*, **2020**, 23, 101101	6.1	26
63	Enhanced anomalous Hall effect in the magnetic topological semimetal Co3Sn2□InxS2. *Physical Review B*, **2020**, 101,	3.3	13
62	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. *Physical Review B*, **2020**, 101,	3.3	15
61	Tunable anomalous Hall conductivity through volume-wise magnetic competition in a topological kagome magnet. *Nature Communications*, **2020**, 11, 559	17.4	47
60	Unconventional Photocurrents from Surface Fermi Arcs in Topological Chiral Semimetals. *Physical Review Letters*, **2020**, 124, 166404	7.4	20
59	Many-Body Resonance in a Correlated Topological Kagome Antiferromagnet. *Physical Review Letters*, **2020**, 125, 046401	7.4	12
58	Quantum-limit Chern topological magnetism in TbMnSn. *Nature*, **2020**, 583, 533-536	50.4	74
57	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. *Nature Communications*, **2020**, 11, 3356	17.4	18

56	Fermion-boson many-body interplay in a frustrated kagome paramagnet. *Nature Communications*, **2020**, 11, 4003	17.4	14
55	Field-Induced Metal□Insulator Transition in □EuP3. *Chinese Physics Letters*, **2020**, 37, 107501	1.8	3
54	Spin-orbit quantum impurity in a topological magnet. *Nature Communications*, **2020**, 11, 4415	17.4	20
53	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. *Science*, **2019**, 365, 1278-1281	33.3	187
52	Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. *Physical Review B*, **2019**, 99,	3.3	8
51	Multimodal imaging platform for optical virtual skin biopsy enabled by a fiber-based two-color ultrafast laser source. *Biomedical Optics Express*, **2019**, 10, 514-525	3.5	13
50	Topological chiral crystals with helicoid-arc quantum states. *Nature*, **2019**, 567, 500-505	50.4	126
49	Thickness-Dependent Ultrafast Photonics of SnS2 Nanolayers for Optimizing Fiber Lasers. *ACS Applied Nano Materials*, **2019**, 2, 2697-2705	5.6	35
48	Crystal growth and quantum oscillations in the topological chiral semimetal CoSi. *Physical Review B*, **2019**, 100,	3.3	21
47	Negative flat band magnetism in a spin□orbit-coupled correlated kagome magnet. *Nature Physics*, **2019**, 15, 443-448	16.2	132
46	Quantum Phase Transition of Correlated Iron-Based Superconductivity in LiFe_{1-x}Co_{x}As. *Physical Review Letters*, **2019**, 123, 217004	7.4	11
45	Interplay of orbital effects and nanoscale strain in topological crystalline insulators. *Nature Communications*, **2018**, 9, 1550	17.4	16
44	Magnetic and noncentrosymmetric Weyl fermion semimetals in the RAlGe family of compounds (R=rareearth). *Physical Review B*, **2018**, 97,	3.3	74
43	Tunable double-Weyl Fermion semimetal state in the SrSi materials class. *Scientific Reports*, **2018**, 8, 10540	4.9	13
42	Searching for topological Fermi arcs via quasiparticle interference on a type-II Weyl semimetal MoTe2. *Npj Quantum Materials*, **2018**, 3,	5	8
41	Topological quantum properties of chiral crystals. *Nature Materials*, **2018**, 17, 978-985	27	129
40	Giant and anisotropic many-body spin-orbit tunability in a strongly correlated kagome magnet. *Nature*, **2018**, 562, 91-95	50.4	132
39	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe2. *Nature Physics*, **2018**, 14, 900-906	16.2	143

38	Direct optical detection of Weyl fermion chirality in a topological semimetal. *Nature Physics*, **2017**, 13, 842-847	16.2	184
37	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. *Science Advances*, **2017**, 3, e1501692	14.3	36
36	Topological Hopf and Chain Link Semimetal States and Their Application to Co_{2}MnGa. *Physical Review Letters*, **2017**, 119, 156401	7.4	125
35	Quasiparticle Interference on Cubic Perovskite Oxide Surfaces. *Physical Review Letters*, **2017**, 119, 086801	7.4	15
34	Nexus fermions in topological symmorphic crystalline metals. *Scientific Reports*, **2017**, 7, 1688	4.9	97
33	Unconventional Chiral Fermions and Large Topological Fermi Arcs in RhSi. *Physical Review Letters*, **2017**, 119, 206401	7.4	154
32	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. *Nature Communications*, **2017**, 8, 942	17.4	57
31	Observation of Effective Pseudospin Scattering in ZrSiS. *Nano Letters*, **2017**, 17, 7213-7217	11.5	22
30	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. *Physical Review Letters*, **2017**, 119, 196403	7.4	17
29	Ultraquantum magnetoresistance in the Kramers-Weyl semimetal candidate Ag2Se. *Physical Review B*, **2017**, 96,	3.3	18
28	Magnetic-tunnelling-induced Weyl node annihilation in TaP. *Nature Physics*, **2017**, 13, 979-986	16.2	63
27	Type-II Symmetry-Protected Topological Dirac Semimetals. *Physical Review Letters*, **2017**, 119, 026404	7.4	112
26	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. *Science Advances*, **2017**, 3, e1603266	14.3	124
25	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate MoxW1Te2. *Physical Review B*, **2016**, 94,	3.3	106
24	Multiple unpinned Dirac points in group-Va single-layers with phosphorene structure. *Npj Computational Materials*, **2016**, 2,	10.9	38
23	Drumhead surface states and topological nodal-line fermions in TlTaSe2. *Physical Review B*, **2016**, 93,	3.3	201
22	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. *Physical Review Letters*, **2016**, 116, 066601	7.4	43
21	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. *Physical Review Letters*, **2016**, 116, 096801	7.4	72

20	Topological Dirac surface states and superconducting pairing correlations in PbTaSe2. *Physical Review B*, **2016**, 93,	3.3	58
19	A strongly robust type II Weyl fermion semimetal state in TaS. *Science Advances*, **2016**, 2, e1600295	14.3	95
18	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. *Nature Communications*, **2016**, 7, 10735	17.4	455
17	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. *ACS Nano*, **2016**, 10, 1378-85	16.7	93
16	Prediction of an arc-tunable Weyl Fermion metallic state in Mo(x)W(1-x)Te2. *Nature Communications*, **2016**, 7, 10639	17.4	216
15	Topological nodal-line fermions in spin-orbit metal PbTaSe2. *Nature Communications*, **2016**, 7, 10556	17.4	514
14	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. *Physical Review Letters*, **2016**, 116, 066802	7.4	107
13	New type of Weyl semimetal with quadratic double Weyl fermions. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 1180-5	11.5	199
12	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. *Physical Review Letters*, **2016**, 117, 266804	7.4	50
11	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler CoTiX (X=Si, Ge, or Sn). *Scientific Reports*, **2016**, 6, 38839	4.9	113
10	Discovery of a new type of topological Weyl fermion semimetal state in MoWTe. *Nature Communications*, **2016**, 7, 13643	17.4	134
9	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. *2D Materials*, **2016**, 3, 021009	5.9	19
8	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monopnictide TaAs class. *Nature Communications*, **2015**, 6, 7373	17.4	1068
7	TOPOLOGICAL MATTER. Discovery of a Weyl fermion semimetal and topological Fermi arcs. *Science* , **2015**, 349, 613-7	33.3	2165
6	Nanoscale determination of the mass enhancement factor in the lightly doped bulk insulator lead selenide. *Nature Communications*, **2015**, 6, 6559	17.4	8
5	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. *Nature Physics*, **2015**, 11, 748-754	16.2	674
4	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. *Physical Review B*, **2015**, 91,	3.3	12
3	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. *Physical Review B*, **2015**, 92,	3.3	102

2	Experimental discovery of a topological Weyl semimetal state in TaP. *Science Advances*, **2015**, 1, e1501092	14.3	241
1	Dirac mass generation from crystal symmetry breaking on the surfaces of topological crystalline insulators. *Nature Materials*, **2015**, 14, 318-24	27	93