

Guoqing Chang

List of Publications by Year in descending order

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78
papers

13,738
citations

50276

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79
all docs

79
docs citations

79
times ranked

7368
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonreciprocal Transport in a Bilayer of MnBiTe_2 and Pt. Nano Letters, 2022, 22, 1366-1373.	9.1	7
2	Observation of a linked-loop quantum state in a topological magnet. Nature, 2022, 604, 647-652.	27.8	18
3	New opportunities with an old optical material: an interview with Professor Marko Lončar. Advanced Photonics, 2022, 4, .	11.8	0
4	Journey from solitons to nanophotonics: an interview with Professor Yuri Kivshar. Advanced Photonics, 2021, 3, .	11.8	0
5	Weyl, Dirac and high-fold chiral fermions in topological quantum matter. Nature Reviews Materials, 2021, 6, 784-803.	48.7	82
6	Efficient generation of UV-enhanced intense supercontinuum in solids: Toward sub-cycle transient. Applied Physics Letters, 2021, 118, .	3.3	8
7	Wonderland of silicon photonics: an interview with Professor Michal Lipson. Advanced Photonics, 2021, 3, .	11.8	1
8	Unconventional chiral charge order in kagome superconductor KV_3Sb_5 . Nature Materials, 2021, 20, 1353-1357.	27.5	391
9	Intrinsic nature of chiral charge order in the kagome superconductor RbV_3Sb_5 . Physical Review B, 2021, 104, .	3.2	108
10	Electronic nature of chiral charge order in the kagome superconductor CsV_3Sb_5 . Physical Review B, 2021, 104, .	3.2	108
11	Pre-Chirp-Managed Adiabatic Soliton Compression in Pressure-Gradient Hollow-Core Fibers. Photonics, 2021, 8, 357.	2.0	4
12	Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet. Physical Review Letters, 2021, 127, 256403.	7.8	17
13	Many-Body Resonance in a Correlated Topological Kagome Antiferromagnet. Physical Review Letters, 2020, 125, 046401.	7.8	24
14	Quantum-limit Chern topological magnetism in TbMn_6Sn_6 . Nature, 2020, 583, 533-536.	27.8	253
15	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. Nature Communications, 2020, 11, 3356.	12.8	55
16	Fermion-boson many-body interplay in a frustrated kagome paramagnet. Nature Communications, 2020, 11, 4003.	12.8	35
17	Field-Induced Metal-Insulator Transition in $\hat{1}^2\text{-EuP}_3$. Chinese Physics Letters, 2020, 37, 107501.	3.3	9
18	Spin-orbit quantum impurity in a topological magnet. Nature Communications, 2020, 11, 4415.	12.8	34

#	ARTICLE	IF	CITATIONS
19	Observation of sixfold degenerate fermions in PdS_2 . Physical Review B, 2020, 101, .	3.2	20
20	Ultrafast Fiber Lasers: An Expanding Versatile Toolbox. IScience, 2020, 23, 101101.	4.1	71
21	Enhanced anomalous Hall effect in the magnetic topological semimetal $\text{Co}_3\text{Sn}_2\text{S}_{12}$. Physical Review B, 2020, 101, .	3.2	22
22	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. Physical Review B, 2020, 101, .	3.2	22
23	Tunable anomalous Hall conductivity through volume-wise magnetic competition in a topological kagome magnet. Nature Communications, 2020, 11, 559.	12.8	112
24	Unconventional Photocurrents from Surface Fermi Arcs in Topological Chiral Semimetals. Physical Review Letters, 2020, 124, 166404.	7.8	40
25	Laser, domains, and more: an interview with Shining Zhu. Advanced Photonics, 2020, 2, .	11.8	1
26	Crystal growth and quantum oscillations in the topological chiral semimetal CoSi. Physical Review B, 2019, 100, .	3.2	48
27	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. Science, 2019, 365, 1278-1281.	12.6	374
28	Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. Physical Review B, 2019, 99, .	3.2	15
29	Multimodal imaging platform for optical virtual skin biopsy enabled by a fiber-based two-color ultrafast laser source. Biomedical Optics Express, 2019, 10, 514.	2.9	22
30	Topological chiral crystals with helicoid-arc quantum states. Nature, 2019, 567, 500-505.	27.8	249
31	Thickness-Dependent Ultrafast Photonics of SnS_2 Nanolayers for Optimizing Fiber Lasers. ACS Applied Nano Materials, 2019, 2, 2697-2705.	5.0	48
32	Negative flat band magnetism in a spin-orbit-coupled correlated kagome magnet. Nature Physics, 2019, 15, 443-448.	16.7	283
33	Quantum Phase Transition of Correlated Iron-Based Superconductivity in LiFeAs . Physical Review Letters, 2019, 123, 217004.	7.8	19
34	Interplay of orbital effects and nanoscale strain in topological crystalline insulators. Nature Communications, 2018, 9, 1550.	12.8	26
35	Magnetic and noncentrosymmetric Weyl fermion semimetals in the $\text{R}_2\text{X}_2\text{O}_7$ family.		

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37	Giant and anisotropic many-body spin-orbit tunability in a strongly correlated kagome magnet. Nature, 2018, 562, 91-95.	27.8	255
38	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe ₂ . Nature Physics, 2018, 14, 900-906.	16.7	249
39	Tunable double-Weyl Fermion semimetal state in the SrSi ₂ materials class. Scientific Reports, 2018, 8, 10540.	3.3	30
40	Searching for topological Fermi arcs via quasiparticle interference on a type-II Weyl semimetal MoTe ₂ . Npj Quantum Materials, 2018, 3, .	5.2	16
41	Direct optical detection of Weyl fermion chirality in a topological semimetal. Nature Physics, 2017, 13, 842-847.	16.7	291
42	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. Science Advances, 2017, 3, e1501692.	10.3	48
43	Topological Hopf and Chain Link Semimetal States and Their Application to Co_2MnSi . Physical Review Letters, 2017, 119, 156401.	7.8	183
44	Quasiparticle Interference on Cubic Perovskite Oxide Surfaces. Physical Review Letters, 2017, 119, 086801.	7.8	19
45	Nexus fermions in topological symmorphic crystalline metals. Scientific Reports, 2017, 7, 1688.	3.3	116
46	Unconventional Chiral Fermions and Large Topological Fermi Arcs in RhSi. Physical Review Letters, 2017, 119, 206401.	7.8	270
47	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. Nature Communications, 2017, 8, 942.	12.8	98
48	Observation of Effective Pseudospin Scattering in ZrSiS. Nano Letters, 2017, 17, 7213-7217.	9.1	29
49	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. Physical Review Letters, 2017, 119, 196403.	7.8	20
50	Ultraquantum magnetoresistance in the Kramers-Weyl semimetal candidate $\text{Pd}_2\text{Ag}_2\text{Se}$. Physical Review B, 2017, 96, .	3.2	27
51	Magnetic-tunnelling-induced Weyl node annihilation in TaP. Nature Physics, 2017, 13, 979-986.	16.7	80
52	Type-II Symmetry-Protected Topological Dirac Semimetals. Physical Review Letters, 2017, 119, 026404.	7.8	145
53	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. Science Advances, 2017, 3, e1603266.	10.3	176
54	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. Physical Review Letters, 2016, 117, 266804.	7.8	56

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55	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler Co ₂ TiX (X=Si, Ge, or Sn). Scientific Reports, 2016, 6, 38839.	3.3	148
56	Discovery of a new type of topological Weyl fermion semimetal state in Mo _x W _{1-x} Te ₂ . Nature Communications, 2016, 7, 13643.	12.8	163
57	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. 2D Materials, 2016, 3, 021009.	4.4	21
58	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate Mo _x W _{1-x} Te ₂ . Physical Review B, 2016, 94, .	3.2	115
59	Multiple unpinned Dirac points in group-Va single-layers with phosphorene structure. Npj Computational Materials, 2016, 2, .	8.7	57
60	Drumhead surface states and topological nodal-line fermions in TlTaSe ₂ . Physical Review B, 2016, 93, .	3.2	208
61	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. Physical Review Letters, 2016, 116, 066601.	7.8	54
62	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. Physical Review Letters, 2016, 116, 096801.	7.8	102
63	Topological Dirac surface states and superconducting pairing correlations in PbTaSe ₂ . Physical Review B, 2016, 93, .	3.2	117
64	A strongly robust type II Weyl fermion semimetal state in Ta ₃ S ₂ . Science Advances, 2016, 2, e1600295.	10.3	114
65	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. Nature Communications, 2016, 7, 10735.	12.8	603
66	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. ACS Nano, 2016, 10, 1378-1385.	14.6	112
67	Prediction of an arc-tunable Weyl Fermion metallic state in Mo _x W _{1-x} Te ₂ . Nature Communications, 2016, 7, 10639.	12.8	249
68	Topological nodal-line fermions in spin-orbit metal PbTaSe ₂ . Nature Communications, 2016, 7, 10556.	12.8	688
69	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. Physical Review Letters, 2016, 116, 066802.	7.8	134
70	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, 1180-1185.	7.1	291
71	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. Physical Review B, 2015, 91, .	3.2	16
72	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. Physical Review B, 2015, 92, .	3.2	127

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73	Experimental discovery of a topological Weyl semimetal state in TaP. Science Advances, 2015, 1, e1501092.	10.3	337
74	Dirac mass generation from crystal symmetry breaking on the surfaces of topological crystalline insulators. Nature Materials, 2015, 14, 318-324.	27.5	113
75	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monpnictide TaAs class. Nature Communications, 2015, 6, 7373.	12.8	1,336
76	Discovery of a Weyl fermion semimetal and topological Fermi arcs. Science, 2015, 349, 613-617.	12.6	2,753
77	Nanoscale determination of the mass enhancement factor in the lightly doped bulk insulator lead selenide. Nature Communications, 2015, 6, 6559.	12.8	12
78	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. Nature Physics, 2015, 11, 748-754.	16.7	817