Guoqing Chang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7745887/publications.pdf

Version: 2024-02-01

		50276	71685
78	13,738	46	76
papers	citations	h-index	g-index

79	79	79	7368
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Discovery of a Weyl fermion semimetal and topological Fermi arcs. Science, 2015, 349, 613-617.	12.6	2,753
2	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monopnictide TaAs class. Nature Communications, 2015, 6, 7373.	12.8	1,336
3	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. Nature Physics, 2015, 11, 748-754.	16.7	817
4	Topological nodal-line fermions in spin-orbit metal PbTaSe2. Nature Communications, 2016, 7, 10556.	12.8	688
5	Signatures of the Adlerâ€“Bellâ€“Jackiw chiral anomaly in a Weyl fermion semimetal. Nature Communications, 2016, 7, 10735.	12.8	603
6	Unconventional chiral charge order in kagome superconductor KV3Sb5. Nature Materials, 2021, 20, 1353-1357.	27.5	391
7	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. Science, 2019, 365, 1278-1281.	12.6	374
8	Experimental discovery of a topological Weyl semimetal state in TaP. Science Advances, 2015, 1, e1501092.	10.3	337
9	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
10	Direct optical detection of Weyl fermion chirality in a topological semimetal. Nature Physics, 2017, 13, 842-847.	16.7	291
11	Negative flat band magnetism in a spinâ€“orbit-coupled correlated kagome magnet. Nature Physics, 2019, 15, 443-448.	16.7	283
12	Unconventional Chiral Fermions and Large Topological Fermi Arcs in RhSi. Physical Review Letters, 2017, 119, 206401.	7.8	270
13	Drumhead surface states and topological nodal-line fermions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TlTaSe</mml:mi><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2016, 93, .	3.2	268
14	Giant and anisotropic many-body spinâ€“orbit tunability in a strongly correlated kagome magnet. Nature, 2018, 562, 91-95.	27.8	255
15	Quantum-limit Chern topological magnetism in TbMn6Sn6. Nature, 2020, 583, 533-536.	27.8	253
16	Topological quantum properties of chiral crystals. Nature Materials, 2018, 17, 978-985.	27.5	252
17	Prediction of an arc-tunable Weyl Fermion metallic state in MoxW1â^'xTe2. Nature Communications, 2016, 7, 10639.	12.8	249
18	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe2. Nature Physics, 2018, 14, 900-906.	16.7	249

#	Article	IF	Citations
19	Topological chiral crystals with helicoid-arc quantum states. Nature, 2019, 567, 500-505.	27.8	249
20	Topological Hopf and Chain Link Semimetal States and Their Application to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Co</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review Letters, 2017, 119, 156401.	7.8	183
21	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. Science Advances, 2017, 3, e1603266.	10.3	176
22	Discovery of a new type of topological Weyl fermion semimetal state in MoxW1âˆ’xTe2. Nature Communications, 2016, 7, 13643.	12.8	163
23	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler Co2TiX (X=Si, Ge, or Sn). Scientific Reports, 2016, 6, 38839.	3.3	148
24	Type-II Symmetry-Protected Topological Dirac Semimetals. Physical Review Letters, 2017, 119, 026404.	7.8	145
25	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. Physical Review Letters, 2016, 116, 066802.	7.8	134
26	Magnetic and noncentrosymmetric Weyl fermion semimetals in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="italic">R</mml:mi><mml:mi		

#	Article	IF	Citations
37	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. Nature Communications, 2017, 8, 942.	12.8	98
38	Weyl, Dirac and high-fold chiralÂfermions in topological quantum matter. Nature Reviews Materials, 2021, 6, 784-803.	48.7	82
39	Magnetic-tunnelling-induced Weyl node annihilation in TaP. Nature Physics, 2017, 13, 979-986.	16.7	80
40	Topological Dirac surface states and superconducting pairing correlations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PbTaSe</mml:mi><mml:mn>2</mml:mn></mml:msub></ Physical Review B, 2016, 93, .	3.2	79
41	Ultrafast Fiber Lasers: An Expanding Versatile Toolbox. IScience, 2020, 23, 101101.	4.1	71
42	Multiple unpinned Dirac points in group-Va single-layers with phosphorene structure. Npj Computational Materials, 2016, 2, .	8.7	57
43	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. Physical Review Letters, 2016, 117, 266804.	7.8	56
44	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. Nature Communications, 2020, 11, 3356.	12.8	55
45	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. Physical Review Letters, 2016, 116, 066601.	7.8	54
46	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. Science Advances, 2017, 3, e1501692.	10.3	48
47	Crystal growth and quantum oscillations in the topological chiral semimetal CoSi. Physical Review B, 2019, 100, .	3.2	48
48	Thickness-Dependent Ultrafast Photonics of SnS₂ Nanolayers for Optimizing Fiber Lasers. ACS Applied Nano Materials, 2019, 2, 2697-2705.	5.0	48
49	Unconventional Photocurrents from Surface Fermi Arcs in Topological Chiral Semimetals. Physical Review Letters, 2020, 124, 166404.	7.8	40
50	Fermionâ€“boson many-body interplay in a frustrated kagome paramagnet. Nature Communications, 2020, 11, 4003.	12.8	35
51	Spin-orbit quantum impurity in a topological magnet. Nature Communications, 2020, 11, 4415.	12.8	34
52	Enhanced anomalous Hall effect in the magnetic topological semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Co</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Sn</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>â€‰</mml:mo mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	31
53	Tunable double-Weyl Fermion semimetal state in the SrSi2 materials class. Scientific Reports, 2018, 8, 10540.	3.3	30
54	Observation of Effective Pseudospin Scattering in ZrSiS. Nano Letters, 2017, 17, 7213-7217.	9.1	29

#	Article	IF	Citations
55	Ultraquantum magnetoresistance in the Kramers-Weyl semimetal candidate Î²â˜Ag2Se. Physical Review B, 2017, 96, .	3.2	27
56	Interplay of orbital effects and nanoscale strain in topological crystalline insulators. Nature Communications, 2018, 9, 1550.	12.8	26
57	Many-Body Resonance in a Correlated Topological Kagome Antiferromagnet. Physical Review Letters, 2020, 125, 046401.	7.8	24
58	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
59	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. Physical Review B, 2020, 101, .	3.2	22
60	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. 2D Materials, 2016, 3, 021009.	4.4	21
61	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. Physical Review Letters, 2017, 119, 196403.	7.8	20
62	Observation of sixfold degenerate fermions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>PdS</mml:mi><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	20
63	Quasiparticle Interference on Cubic Perovskite Oxide Surfaces. Physical Review Letters, 2017, 119, 086801.	7.8	19
64	Quantum Phase Transition of Correlated Iron-Based Superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LiFe</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mn><m	7.8	19
65	Observation of a linked-loop quantum state in a topological magnet. Nature, 2022, 604, 647-652.	27.8	18
66	Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet. Physical Review Letters, 2021, 127, 256403.	7.8	17
67	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. Physical Review B, 2015, 91, .	3.2	16
68	Searching for topological Fermi arcs via quasiparticle interference on a type-II Weyl semimetal MoTe2. Npj Quantum Materials, 2018, 3, .	5.2	16
69	Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. Physical Review B, 2019, 99, .	3.2	15
70	Nanoscale determination of the mass enhancement factor in the lightly doped bulk insulator lead selenide. Nature Communications, 2015, 6, 6559.	12.8	12
71	Field-Induced Metalâ€“Insulator Transition in Î²-EuP3. Chinese Physics Letters, 2020, 37, 107501.	3.3	9
72	Efficient generation of UV-enhanced intense supercontinuum in solids: Toward sub-cycle transient. Applied Physics Letters, 2021, 118, .	3.3	8

#	Article	IF	Citations
73	Nonreciprocal Transport in a Bilayer of MnBi₂Te₄ and Pt. Nano Letters, 2022, 22, 1366-1373.	9.1	7
74	Pre-Chirp-Managed Adiabatic Soliton Compression in Pressure-Gradient Hollow-Core Fibers. Photonics, 2021, 8, 357.	2.0	4
75	Wonderland of silicon photonics: an interview with Professor Michal Lipson. Advanced Photonics, 2021, 3, .	11.8	1
76	Laser, domains, and more: an interview with Shining Zhu. Advanced Photonics, 2020, 2, .	11.8	1
77	Journey from solitons to nanophotonics: an interview with Professor Yuri Kivshar. Advanced Photonics, 2021, 3, .	11.8	0
78	New opportunities with an old optical material: an interview with Professor Marko LonÄar. Advanced Photonics, 2022, 4, .	11.8	0