Songtian Zhang

List of Publications by Year
in descending order

30 papers	3,173 citations	361413 20 h-index	477307 29 g-index
31 all docs	31 docs citations	31 times ranked	2947 citing authors

#	Article	IF	Citations
1	Observation of a linked-loop quantum state in a topological magnet. Nature, 2022, 604, 647-652.	27.8	18
2	Multiple quantum phase transitions of different nature in the topological kagome magnet Co3Sn2â^'xInxS2. Npj Quantum Materials, 2021, 6, .	5.2	16
3	Unconventional chiral charge order in kagome superconductor KV3Sb5. Nature Materials, 2021, 20, 1353-1357.	27.5	391
4	Intrinsic nature of chiral charge order in the kagome superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Rb</mml:mi><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Sb</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 104, .	3.2	108
5	Robust topological state against magnetic impurities observed in the superconductor <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></mml:math>. Physical Review B, 2021, 104, .	3.2	11
6	Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet. Physical Review Letters, 2021, 127, 256403.	7.8	17
7	Many-Body Resonance in a Correlated Topological Kagome Antiferromagnet. Physical Review Letters, 2020, 125, 046401.	7.8	24
8	Quantum-limit Chern topological magnetism in TbMn6Sn6. Nature, 2020, 583, 533-536.	27.8	253
9	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. Nature Communications, 2020, 11, 3356.	12.8	55
10	Fermionâ€“boson many-body interplay in a frustrated kagome paramagnet. Nature Communications, 2020, 11, 4003.	12.8	35
11	Spin-orbit quantum impurity in a topological magnet. Nature Communications, 2020, 11, 4415.	12.8	34
12	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
13	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></mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	31
14	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. Physical Review B, 2020, 101, .	3.2	22
15	Tunable anomalous Hall conductivity through volume-wise magnetic competition in a topological kagome magnet. Nature Communications, 2020, 11, 559.	12.8	112
16	Unconventional Photocurrents from Surface Fermi Arcs in Topological Chiral Semimetals. Physical Review Letters, 2020, 124, 166404.	7.8	40
17	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. Science, 2019, 365, 1278-1281.	12.6	374
18	Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. Physical Review B, 2019, 99, .	3.2	15

#	Article	IF	Citations
19	Topological chiral crystals with helicoid-arc quantum states. Nature, 2019, 567, 500-505.	27.8	249
20	Negative flat band magnetism in a spinâ€“orbit-coupled correlated kagome magnet. Nature Physics, 2019, 15, 443-448.	16.7	283
21	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>< Physical Review Letters, 2019, 123, 217004.	7.8	19
22	Chiral Majorana fermion modes on the surface of superconducting topological insulators. Europhysics Letters, 2018, 123, 47005.	2.0	7
23	Giant and anisotropic many-body spinâ€“orbit tunability in a strongly correlated kagome magnet. Nature, 2018, 562, 91-95.	27.8	255
24	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</r Physical Review Letters, 2017, 119, 156401.	7.8	183
25	Unconventional Chiral Fermions and Large Topological Fermi Arcs in RhSi. Physical Review Letters, 2017, 119, 206401.	7.8	270
26	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. Nature Communications, 2017, 8, 942.	12.8	98
27	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. Physical Review Letters, 2017, 119, 196403.	7.8	20
28	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. Physical Review Letters, 2016, 117, 266804.	7.8	56
29	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
30	Thermal Conductivity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ho</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ti</mml:mi><mml:mn mathvariant="bold">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>along the [111] Direction. Physical Review Letters, 2013, 110, 217209.	7.8	20