

# Songtian Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Unconventional chiral charge order in kagome superconductor KV <sub>3</sub> Sb <sub>5</sub> . Nature Materials, 2021, 20, 1353-1357.	27.5	391
2	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. Science, 2019, 365, 1278-1281.	12.6	374
3	Negative flat band magnetism in a spin-orbit-coupled correlated kagome magnet. Nature Physics, 2019, 15, 443-448.	16.7	283
4	Unconventional Chiral Fermions and Large Topological Fermi Arcs in RhSi. Physical Review Letters, 2017, 119, 206401.	7.8	270
5	Giant and anisotropic many-body spin-orbit tunability in a strongly correlated kagome magnet. Nature, 2018, 562, 91-95.	27.8	255
6	Quantum-limit Chern topological magnetism in TbMn <sub>6</sub> Sn <sub>6</sub> . Nature, 2020, 583, 533-536.	27.8	253
7	Topological chiral crystals with helicoid-arc quantum states. Nature, 2019, 567, 500-505.	27.8	249
8	Topological Hopf and Chain Link Semimetal States and Their Application to $\text{Co}_2\text{V}_3\text{Sb}_5$ . Physical Review Letters, 2017, 119, 156401.	7.8	183
9	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler Co <sub>2</sub> TiX (X=Si, Ge, or Sn). Scientific Reports, 2016, 6, 38839.	3.3	148
10	Tunable anomalous Hall conductivity through volume-wise magnetic competition in a topological kagome magnet. Nature Communications, 2020, 11, 559.	12.8	112
11	Intrinsic nature of chiral charge order in the kagome superconductor $\text{Rb}_3\text{V}_3\text{Sb}_5$ . Physical Review B, 2021, 104, .	3.2	108
12	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. Nature Communications, 2017, 8, 942.	12.8	98
13	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. Physical Review Letters, 2016, 117, 266804.	7.8	56
14	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. Nature Communications, 2020, 11, 3356.	12.8	55
15	Unconventional Photocurrents from Surface Fermi Arcs in Topological Chiral Semimetals. Physical Review Letters, 2020, 124, 166404.	7.8	40
16	Fermion-boson many-body interplay in a frustrated kagome paramagnet. Nature Communications, 2020, 11, 4003.	12.8	35
17	Spin-orbit quantum impurity in a topological magnet. Nature Communications, 2020, 11, 4415.	12.8	34
18	Enhanced anomalous Hall effect in the magnetic topological semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ . Physical Review B, 2020, 101, .	12.8	31

#	ARTICLE	IF	CITATIONS
19	Many-Body Resonance in a Correlated Topological Kagome Antiferromagnet. Physical Review Letters, 2020, 125, 046401.	7.8	24
20	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. Physical Review B, 2020, 101, .	3.2	22
21	Thermal Conductivity of $\text{Ho}_2\text{O}_7$ along the [111] Direction. Physical Review Letters, 2013, 110, 217209.	7.8	20
22	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. Physical Review Letters, 2017, 119, 196403.	7.8	20
23	Observation of sixfold degenerate fermions in $\text{PdSb}_2$ . Physical Review B, 2020, 101, .	3.2	20
24	Quantum Phase Transition of Correlated Iron-Based Superconductivity in $\text{LiFeO}_2$ . Physical Review Letters, 2019, 123, 217004.	7.8	19
25	Observation of a linked-loop quantum state in a topological magnet. Nature, 2022, 604, 647-652.	27.8	18
26	Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet. Physical Review Letters, 2021, 127, 256403.	7.8	17
27	Multiple quantum phase transitions of different nature in the topological kagome magnet $\text{Co}_3\text{Sn}_2\text{As}_2$ . Npj Quantum Materials, 2021, 6, .	5.2	16
28	Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. Physical Review B, 2019, 99, .	3.2	15
29	Chiral Majorana fermion modes on the surface of superconducting topological insulators. Europhysics Letters, 2018, 123, 47005.	2.0	7
30	Robust topological state against magnetic impurities observed in the superconductor $\text{PbTaSe}_2$ . Physical Review B, 2021, 104, .	3.2	10