

Ilya Belopolski

List of Publications by Year in descending order

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66
papers

15,357
citations

57681

46
h-index

116156

66
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67
all docs

67
docs citations

67
times ranked

8875
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing the out-of-plane electronic dispersions in an intercalated transition metal dichalcogenide. Physical Review B, 2022, 105, .	1.1	9
2	Observation of a linked-loop quantum state in a topological magnet. Nature, 2022, 604, 647-652.	13.7	18
3	Weyl, Dirac and high-fold chiral fermions in topological quantum matter. Nature Reviews Materials, 2021, 6, 784-803.	23.3	82
4	Unconventional chiral charge order in kagome superconductor KV3Sb5. Nature Materials, 2021, 20, 1353-1357.	13.3	391
5	Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet. Physical Review Letters, 2021, 127, 256403.	2.9	17
6	Quantum-limit Chern topological magnetism in TbMn6Sn6. Nature, 2020, 583, 533-536.	13.7	253
7	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. Nature Communications, 2020, 11, 3356.	5.8	55
8	Spin-orbit quantum impurity in a topological magnet. Nature Communications, 2020, 11, 4415.	5.8	34
9	Observation of sixfold degenerate fermions in PdS . Physical Review B, 2020, 101, .	1.1	20
10	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. Physical Review B, 2020, 101, .	1.1	22
11	Unconventional Photocurrents from Surface Fermi Arcs in Topological Chiral Semimetals. Physical Review Letters, 2020, 124, 166404.	2.9	40
12	Crystal growth and quantum oscillations in the topological chiral semimetal CoSi. Physical Review B, 2019, 100, .	1.1	48
13	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. Science, 2019, 365, 1278-1281.	6.0	374
14	Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. Physical Review B, 2019, 99, .	1.1	15
15	Topological chiral crystals with helicoid-arc quantum states. Nature, 2019, 567, 500-505.	13.7	249
16	Negative flat band magnetism in a spin-orbit-coupled correlated kagome magnet. Nature Physics, 2019, 15, 443-448.	6.5	283
17	Quantum Phase Transition of Correlated Iron-Based Superconductivity in LiFeAs . Physical Review Letters, 2019, 123, 217004.	2.9	19
18	Observation of gapless Dirac surface states in ZrGeTe. Physical Review B, 2018, 97, .	1.1	34

#	ARTICLE	IF	CITATIONS
19	g and noncentrosymmetric Weyl fermion semimetals in the \mathbb{R}		

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37	Observation of metallic surface states in the strongly correlated Kitaev-Heisenberg candidate $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Na} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ Physical Review B, 2016, 93, .	1.1	16
38	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. Physical Review Letters, 2016, 116, 066601.	2.9	54
39	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. Physical Review Letters, 2016, 116, 096801.	2.9	102
40	Topological Dirac surface states and superconducting pairing correlations in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{PbTaSe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ Physical Review B, 2016, 93, .	1.1	16
41	A strongly robust type II Weyl fermion semimetal state in Ta $\langle \text{sub} \rangle 3 \langle \text{sub} \rangle$ S $\langle \text{sub} \rangle 2 \langle \text{sub} \rangle$. Science Advances, 2016, 2, e1600295.	4.7	114
42	Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd. Nature Communications, 2016, 7, 13315.	5.8	42
43	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. Nature Communications, 2016, 7, 10735.	5.8	603
44	Electronic structure and relaxation dynamics in a superconducting topological material. Scientific Reports, 2016, 6, 22557.	1.6	21
45	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. ACS Nano, 2016, 10, 1378-1385.	7.3	112
46	Prediction of an arc-tunable Weyl Fermion metallic state in $\text{MoxW1}\hat{x}\text{Te2}$. Nature Communications, 2016, 7, 10639.	5.8	249
47	Topological nodal-line fermions in spin-orbit metal PbTaSe ₂ . Nature Communications, 2016, 7, 10556.	5.8	688
48	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. Physical Review Letters, 2016, 116, 066802.	2.9	134
49	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.	3.3	291
50	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. Physical Review B, 2015, 91, .	1.1	16
51	Fermi surface topology and hot spot distribution in the Kondo lattice system $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{CeB} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2015, 92, .	1.1	29
52	Tunable spin helical Dirac quasiparticles on the surface of three-dimensional HgTe. Physical Review B, 2015, 92, .	1.1	19
53	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. Physical Review B, 2015, 92, .	1.1	127
54	Gigantic Surface Lifetime of an Intrinsic Topological Insulator. Physical Review Letters, 2015, 115, 116801.	2.9	84

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55	Experimental discovery of a topological Weyl semimetal state in TaP. <i>Science Advances</i> , 2015, 1, e1501092.	4.7	337
56	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monpnictide TaAs class. <i>Nature Communications</i> , 2015, 6, 7373.	5.8	1,336
57	Discovery of a Weyl fermion semimetal and topological Fermi arcs. <i>Science</i> , 2015, 349, 613-617.	6.0	2,753
58	Unconventional transformation of spin Dirac phase across a topological quantum phase transition. <i>Nature Communications</i> , 2015, 6, 6870.	5.8	34
59	Bulk crystal growth and electronic characterization of the 3D Dirac semimetal Na ₃ Bi. <i>APL Materials</i> , 2015, 3, .	2.2	76
60	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. <i>Nature Physics</i> , 2015, 11, 748-754.	6.5	817
61	Observation of Fermi arc surface states in a topological metal. <i>Science</i> , 2015, 347, 294-298.	6.0	603
62	Observation of a three-dimensional topological Dirac semimetal phase in high-mobility Cd ₃ As ₂ . <i>Nature Communications</i> , 2014, 5, 3786.	5.8	1,166
63	Observation of quantum-tunnelling-modulated spin texture in ultrathin topological insulator Bi ₂ Se ₃ films. <i>Nature Communications</i> , 2014, 5, 3841.	5.8	112
64	Momentum-space imaging of Cooper pairing in a half-Dirac-gas topological superconductor. <i>Nature Physics</i> , 2014, 10, 943-950.	6.5	134
65	Spin-correlated electronic state on the surface of a spin-orbit Mott system. <i>Physical Review B</i> , 2014, 90, .	1.1	11
66	Observation of monolayer valence band spin-orbit effect and induced quantum well states in MoX ₂ . <i>Nature Communications</i> , 2014, 5, 4673.	5.8	121