

Daniel Steve Sanchez

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

9,250
citations

168829

31
h-index

388640

36
g-index

37
all docs

37
docs citations

37
times ranked

6582
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of a Weyl fermion semimetal and topological Fermi arcs. <i>Science</i> , 2015, 349, 613-617.	6.0	2,753
2	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. <i>Nature Physics</i> , 2015, 11, 748-754.	6.5	817
3	Topological nodal-line fermions in spin-orbit metal PbTaSe ₂ . <i>Nature Communications</i> , 2016, 7, 10556.	5.8	688
4	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. <i>Nature Communications</i> , 2016, 7, 10735.	5.8	603
5	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. <i>Science</i> , 2019, 365, 1278-1281.	6.0	374
6	Experimental discovery of a topological Weyl semimetal state in TaP. <i>Science Advances</i> , 2015, 1, e1501092.	4.7	337
7	Observation of topological nodal fermion semimetal phase in ZrSiS. <i>Physical Review B</i> , 2016, 93, .	1.1	309
8	Unconventional Chiral Fermions and Large Topological Fermi Arcs in RhSi. <i>Physical Review Letters</i> , 2017, 119, 206401.	2.9	270
9	Drumhead surface states and topological nodal-line fermions in $TiTaSe_2$. <i>Physical Review B</i> , 2016, 93, .	2.6	268
10	Topological quantum properties of chiral crystals. <i>Nature Materials</i> , 2018, 17, 978-985.	13.3	252
11	Prediction of an arc-tunable Weyl Fermion metallic state in $Mo_xW_{1-x}Te_2$. <i>Nature Communications</i> , 2016, 7, 10639.	5.8	249
12	Topological chiral crystals with helicoid-arc quantum states. <i>Nature</i> , 2019, 567, 500-505.	13.7	249
13	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. <i>Science Advances</i> , 2017, 3, e1603266.	4.7	176
14	Discovery of a new type of topological Weyl fermion semimetal state in $Mo_xW_{1-x}Te_2$. <i>Nature Communications</i> , 2016, 7, 13643.	5.8	163
15	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler Co_2TiX ($X=Si, Ge, \text{ or } Sn$). <i>Scientific Reports</i> , 2016, 6, 38839.	1.6	148
16	Type-II Symmetry-Protected Topological Dirac Semimetals. <i>Physical Review Letters</i> , 2017, 119, 026404.	2.9	145
17	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. <i>Physical Review Letters</i> , 2016, 116, 066802.	2.9	134
18	Magnetic and noncentrosymmetric Weyl fermion semimetals in the R		

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19	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. Physical Review B, 2015, 92, .	1.1	127
20	Nexus fermions in topological symmorphic crystalline metals. Scientific Reports, 2017, 7, 1688.	1.6	116
21	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate $W\text{Mo}_x\text{Te}_{1-x}$. Physical Review B, 2016, 94, .	1.1	115
22	A strongly robust type II Weyl fermion semimetal state in Ta ₃ S ₂ . Science Advances, 2016, 2, e1600295.	4.7	114
23	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. ACS Nano, 2016, 10, 1378-1385.	7.3	112
24	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. Physical Review Letters, 2016, 116, 096801.	2.9	102
25	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. Nature Communications, 2017, 8, 942.	5.8	98
26	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. Physical Review Letters, 2016, 117, 266804.	2.9	56
27	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. Nature Communications, 2020, 11, 3356.	5.8	55
28	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. Physical Review Letters, 2016, 116, 066601.	2.9	54
29	Crystal growth and quantum oscillations in the topological chiral semimetal CoSi. Physical Review B, 2019, 100, .	1.1	48
30	Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd. Nature Communications, 2016, 7, 13315.	5.8	42
31	Unconventional Photocurrents from Surface Fermi Arcs in Topological Chiral Semimetals. Physical Review Letters, 2020, 124, 166404.	2.9	40
32	Fermi surface topology and hot spot distribution in the Kondo lattice system CeB_6 . Physical Review B, 2015, 92, .	1.1	29
33	Electronic structure and relaxation dynamics in a superconducting topological material. Scientific Reports, 2016, 6, 22557.	1.6	21
34	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. Physical Review Letters, 2017, 119, 196403.	2.9	20
35	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. Physical Review B, 2015, 91, .	1.1	16
36	Observation of metallic surface states in the strongly correlated Kitaev-Heisenberg candidate $\text{Na}_2\text{Zr}_2\text{Te}_6$. Physical Review B, 2016, 93, .	1.1	16