

Nicholas P Butch

List of Publications by Year in descending order

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34
papers

2,291
citations

257450

24
h-index

377865

34
g-index

36
all docs

36
docs citations

36
times ranked

2909
citing authors

#	ARTICLE	IF	CITATIONS
1	Nearly ferromagnetic spin-triplet superconductivity. <i>Science</i> , 2019, 365, 684-687.	12.6	351
2	Surface conduction of topological Dirac electrons in bulk insulating Bi ₂ Se ₃ . <i>Nature Physics</i> , 2012, 8, 459-463.	16.7	330
3	Chiral superconductivity in heavy-fermion metal UTe ₂ . <i>Nature</i> , 2020, 579, 523-527.	27.8	193
4	Insulating Behavior in Ultrathin Bismuth Selenide Field Effect Transistors. <i>Nano Letters</i> , 2011, 11, 1925-1927.	9.1	152
5	Extreme magnetic field-boosted superconductivity. <i>Nature Physics</i> , 2019, 15, 1250-1254.	16.7	138
6	Coherent topological transport on the surface of Bi ₂ Se ₃ . <i>Nature Communications</i> , 2013, 4, 2040.	12.8	116
7	Intrinsic Electron-Phonon Resistivity of Bi_2Se_3 in the Topological Regime. <i>Physical Review Letters</i> , 2012, 109, 166801.	7.8	73
8	Point-node gap structure of the spin-triplet superconductor UTe ₂ . <i>Physical Review B</i> , 2019, 100, .	16.7	138
9	Phase Separation and Suppression of the Structural and Magnetic Transitions in Superconducting Doped Iron Tellurides, Fe _{1+x} Te ₃ S _y . <i>Journal of the American Chemical Society</i> , 2010, 132, 13000-13007.	13.7	62
10	Stability and Surface Reconstruction of Topological Insulator Bi ₂ Se ₃ on Exposure to Atmosphere. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20413-20419.	3.1	62
11	Low Energy Band Structure and Symmetries of UTe ₂ Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2020, 124, 076401.	7.8	59
12	Ambipolar Surface State Thermoelectric Power of Topological Insulator Bi ₂ Se ₃ . <i>Nano Letters</i> , 2014, 14, 1701-1706.	9.1	56
13	Non-Fermi Liquid Regimes and Superconductivity in the Low Temperature Phase Diagrams of Strongly Correlated d- and f-Electron Materials. <i>Journal of Low Temperature Physics</i> , 2010, 161, 4-54.	1.4	54
14	Chemical control of interstitial iron leading to superconductivity in Fe _{1+x} Te _{0.7} Se _{0.3} . <i>Chemical Science</i> , 2011, 2, 1782.	7.4	53
15	Topological Insulator Quantum Dot with Tunable Barriers. <i>Nano Letters</i> , 2012, 12, 469-472.	9.1	50
16	Enhancement and reentrance of spin triplet superconductivity in UTe ₂ under pressure. <i>Physical Review B</i> , 2020, 101, .	3.2	48
17	Quantum critical scaling at the edge of Fermi liquid stability in a cuprate superconductor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8440-8444.	7.1	43
18	Anomalous normal fluid response in a chiral superconductor UTe ₂ . <i>Nature Communications</i> , 2021, 12, 2644.	12.8	38

#	ARTICLE	IF	CITATIONS
19	Electrostatic Coupling between Two Surfaces of a Topological Insulator Nanodevice. Physical Review Letters, 2014, 113, 206801.	7.8	33
20	Spectroscopic Determination of the Atomic f -Electron Symmetry Underlying Hidden Order in URu_2Si_2 . Physical Review Letters, 2015, 114, 236401.	7.8	32
21	Symmetry and correlations underlying hidden order in URu_2Si_2 . Physical Review B, 2015, 91, .	3.2	30
22	Tuning magnetic confinement of spin-triplet superconductivity. Npj Quantum Materials, 2020, 5, .	5.2	31
23	Air-Stable Electron Depletion of Bi_2Se_3 Using Molybdenum Trioxide into the Topological Regime. ACS Nano, 2014, 8, 6400-6406.	14.6	29
24	Low-temperature crystal structure of the unconventional spin-triplet superconductor UTe_2 from single-crystal neutron diffraction. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 137-143.	1.1	26
25	Phase separation and superconductivity in $Fe_{1+x}Te_{0.5}Se_{0.5}$. Chemical Communications, 2011, 47, 11297.	4.1	22
26	Orbital-selective Kondo lattice and enigmatic f electrons emerging from inside the antiferromagnetic phase of a heavy fermion. Science Advances, 2019, 5, eaaw9061.	10.3	22
27	Interplay between magnetism and superconductivity in UTe_2 . Physical Review B, 2022, 105, .	3.2	20
28	Quantum critical behavior in the asymptotic limit of high disorder in the medium entropy alloy $NiCoCr_{0.8}$. Npj Quantum Materials, 2017, 2, .	5.2	18
29	Emergent ferromagnetism and linear scattering in USb_3 at high pressure. Physical Review B, 2016, 93, .	3.2	17
30	Expansion of the high field-boosted superconductivity in UTe_2 under pressure. Npj Quantum Materials, 2021, 6, .	5.2	15
31	Distinct magnetic spectra in the hidden order and antiferromagnetic phases in URu_2Si_2 . Physical Review B, 2016, 94, .	3.2	14
32	High temperature singlet-based magnetism from Hund's rule correlations. Nature Communications, 2019, 10, 644.	12.8	12
33	Symmetry of magnetic correlations in spin-triplet superconductor UTe_2 . Npj Quantum Materials, 2022, 7, .	5.2	11
34	Possible coexistence of antiferromagnetic and ferromagnetic spin fluctuations in the spin-triplet superconductor UTe_2 revealed by NMR under pressure. Physica	3.2	10