

Toni Helm

List of Publications by Year in descending order

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36
papers

1,150
citations

471509

17
h-index

377865

34
g-index

40
all docs

40
docs citations

40
times ranked

1863
citing authors

#	ARTICLE	IF	CITATIONS
1	Transport evidence for Fermi-arc-mediated chirality transfer in the Dirac semimetal Cd ₃ As ₂ . Nature, 2016, 535, 266-270.	27.8	292
2	Evolution of the Fermi Surface of the Electron-Doped High-Temperature Superconductor $Nd_{2-x}Ce_xCuO_{4-y}$ by Shubnikov-de Haas Oscillations. Physical Review Letters, 2009, 103, 157002.	7.8	120
3	Scaling between magnetic field and temperature in the high-temperature superconductor BaFe ₂ (As _{1-x} P _x) ₂ . Nature Physics, 2016, 12, 916-919.	16.7	92
4	Electronic in-plane symmetry breaking at field-tuned quantum criticality in CeRhIn ₅ . Nature, 2017, 548, 313-317.	27.8	89
5	Magnetic Breakdown in the Electron-Doped Cuprate Superconductor $Nd_{2-x}Ce_xCuO_{4-y}$. The Reconstructed Fermi Surface Survives in the Strongly Overdoped Regime. Physical Review Letters, 2010, 105, 247002.	7.8	120
6	Observation of a two-dimensional Fermi surface and Dirac dispersion in $YbMnSb_{2-x}Mn_x$. Physical Review B, 2018, 97, .	12.1	54
7	Correlated states in \hat{I}^2 -Li ₂ IrO ₃ driven by applied magnetic fields. Nature Communications, 2017, 8, 961.	12.8	43
8	Fermi surface of the electron-doped cuprate superconductor $Nd_{2-x}Ce_xCuO_{4-y}$ probed by high-field magnetotransport. New Journal of Physics, 2011, 13, 015001.	2.9	39
9	Correlation between Fermi surface transformations and superconductivity in the electron-doped high- T_c $Nd_{2-x}Ce_xCuO_{4-y}$. Physical Review B, 2015, 92, .	3.9	39
10	Spatial control of heavy-fermion superconductivity in CeIrIn ₅ . Science, 2019, 366, 221-226.	12.6	37
11	Ultrahigh transverse thermoelectric power factor in flexible Weyl semimetal WTe ₂ . Nature Communications, 2022, 13, .	12.8	26
12	Metamagnetic texture in a polar antiferromagnet. Nature Physics, 2019, 15, 671-677.	16.7	24
13	Advances in single crystal growth and annealing treatment of electron-doped HTSC. European Physical Journal: Special Topics, 2010, 188, 61-72.	2.6	23
14	Large linear non-saturating magnetoresistance and high mobility in ferromagnetic MnBi. Nature Communications, 2021, 12, 4576.	12.8	22
15	Imaging Anomalous Nematic Order and Strain in Optimally Doped $BaFe_{2-x}As_{2-y}Tj_{y-z}ETQq_1$. Physical Review B, 2019, 100, 040407.	7.8	20
16	Evidence of Fermi surface reconstruction at the metamagnetic transition of the strongly correlated superconductor $UTe_{2-x}Mn_x$. Physical Review Research, 2020, 2, .	3.6	20
17	Hot Hydride Superconductivity Above 550 K. Frontiers in Electronic Materials, 2022, 2, .	3.1	20
18	Electron-tunneling measurements of low- T_c single-layer Bi _{2-x} Sr _{2x} YCuO _{6+δ} : Evidence for a scaling disparity between superconducting and pseudogap states. Physical Review B, 2012, 86, .	3.2	16

#	ARTICLE	IF	CITATIONS
19	Emergent magnetic anisotropy in the cubic heavy-fermion metal CeIn ₃ . Npj Quantum Materials, 2017, 2, .	5.2	14
20	Experimental evidence for Zeeman spin-orbit coupling in layered antiferromagnetic conductors. Npj Quantum Materials, 2021, 6, .	5.2	11
21	Topological Hall effect arising from the mesoscopic and microscopic non-coplanar magnetic structure in MnBi. Acta Materialia, 2022, 226, 117619.	7.9	11
22	Thermodynamic anomaly above the superconducting critical temperature in the quasi-one-dimensional superconductor Ta ₄ Mn ₃ Bi ₁₀ . Physical Review B, 2017, 95, .	3.2	10
23	Non-monotonic pressure dependence of high-field nematicity and magnetism in CeRhIn ₅ . Nature Communications, 2020, 11, 3482.	12.8	9
24	Magnetic quantum oscillations in the charge-density-wave state of the organic metals \hat{I}_{\pm} -(BEDT-TTF) ₂ MHg(SCN) ₄ with $M_0 = \hat{a}$ and Tl. Low Temperature Physics, 2014, 40, 377-383.	0.6	8
25	Nanoscale magnetic bubbles in Nd ₂ B ₈ at room temperature. Physical Review B, 2022, 105, .	3.2	8
26	Nanometer-Thick Bismuth Nanocrystal Films for Sensoric Applications. ACS Applied Nano Materials, 2020, 3, 9669-9678.	5.0	7
27	Focused ion beam modification of non-local magnon-based transport in yttrium iron garnet/platinum heterostructures. Applied Physics Letters, 2019, 114, 252401.	3.3	6
28	Sr ₂ Pt ₈ As: a layered incommensurately modulated metal with saturated resistivity. IUCr, 2018, 5, 470-477.	2.2	5
29	Incommensurate two-dimensional checkerboard charge density wave in the low-dimensional superconductor Ta ₄ Mn ₅ . Physical Review Research, 2020, 2, .	3.6	5
30	Interplay of structure and charge order revealed by quantum oscillations in thin films of Pr ₂ Mn ₄ . Physical Review B, 2019, 100, .	3.2	4
31	Magnetotransport evidence for irreversible spin reorientation in the collinear antiferromagnetic state of underdoped Nd _{2-x} Ce _x CuO ₄ . Physical Review B, 2018, 97, .	3.2	3
32	Anisotropic magnetization, critical temperature, and paramagnetic Curie temperature in the highly anisotropic magnetic Heusler compound Rh ₂ Mn ₃ . Physical Review B, 2021, 103, .	3.2	3
33	Quantum Oscillations in Ferromagnetic (Sb, V) ₂ Te ₃ Topological Insulator Thin Films. Advanced Materials, 2021, 33, 2102107.	21.0	3
34	Fermi-surface reconstruction at the metamagnetic high-field transition in uranium mononitride. Physical Review B, 2021, 104, .	3.2	2
35	Anomalous quantum oscillations of CeCoIn ₅ in high magnetic fields. Physical Review B, 2021, 104, .	3.2	2
36	The influence of magnetic order on the magnetoresistance anisotropy of Fe _{1-x} Cu _x Te. Journal of Physics Condensed Matter, 2017, 29, 285801.	0.7	1