

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	Topological Hall effect arising from the mesoscopic and microscopic non-coplanar magnetic structure in MnBi. Acta Materialia, 2022, 226, 117619.	7.9	11
2	Nanoscale magnetic bubbles in Nd_2B at room temperature. Physical Review B, 2022, 105, .	3.2	8
3	Hot Hydride Superconductivity Above 550ÅK. Frontiers in Electronic Materials, 2022, 2, .	3.1	20
4	Ultrahigh transverse thermoelectric power factor in flexible Weyl semimetal WTe ₂ . Nature Communications, 2022, 13, .	12.8	26
5	Experimental evidence for Zeeman spin-orbit coupling in layered antiferromagnetic conductors. Npj Quantum Materials, 2021, 6, .	5.2	11
6	Anisotropic magnetization, critical temperature, and paramagnetic Curie temperature in the highly anisotropic magnetic Heusler compound Rh_2Zn . Physical Review B, 2021, 103, .	3.2	3
7	Large linear non-saturating magnetoresistance and high mobility in ferromagnetic MnBi. Nature Communications, 2021, 12, 4576.	12.8	22
8	Quantum Oscillations in Ferromagnetic (Sb, V) 2Te_3 Topological Insulator Thin Films. Advanced Materials, 2021, 33, 2102107.	21.0	3
9	Fermi-surface reconstruction at the metamagnetic high-field transition in uranium mononitride. Physical Review B, 2021, 104, .	3.2	2
10	Anomalous quantum oscillations of CeCoIn_5 in high magnetic fields. Physical Review B, 2021, 104, .	3.2	2
11	Nanometer-Thick Bismuth Nanocrystal Films for Sensoric Applications. ACS Applied Nano Materials, 2020, 3, 9669-9678.	5.0	7
12	Non-monotonic pressure dependence of high-field nematicity and magnetism in CeRhIn ₅ . Nature Communications, 2020, 11, 3482.	12.8	9
13	Evidence of Fermi surface reconstruction at the metamagnetic transition of the strongly correlated superconductor UTe_2 . Physical Review Research, 2020, 2, .	3.6	20
14	Incommensurate two-dimensional checkerboard charge density wave in the low-dimensional superconductor $\text{Ta}_4\text{Zr}_{15}$. Physical Review Research, 2020, 2, .	3.6	5
15	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
16	Spatial control of heavy-fermion superconductivity in CeIrIn ₅ . Science, 2019, 366, 221-226.	12.6	37
17	Metamagnetic texture in a polar antiferromagnet. Nature Physics, 2019, 15, 671-677.	16.7	24
18	Interplay of structure and charge order revealed by quantum oscillations in thin films of $\text{Pr}_2\text{Zr}_{11}$. Physical Review B, 2019, 100, .	2.2	1

#	ARTICLE	IF	CITATIONS
19	Magnetotransport evidence for irreversible spin reorientation in the collinear antiferromagnetic state of underdoped $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$. <i>Physical Review B</i> , 2018, 97, .	3.2	3
20	Observation of a two-dimensional Fermi surface and Dirac dispersion in YbMnSb . <i>Physical Review B</i> , 2018, 97, .	3.2	10
21	Order and Spin in Optimally Doped BaFe_2As_2 . <i>Physical Review Letters</i> , 2018, 120, 177201. https://doi.org/10.1103/PhysRevLett.120.177201	7.8	20
22	$\text{Sr}_2\text{Pt}_8\text{As}$: a layered incommensurately modulated metal with saturated resistivity. <i>IUCr</i> , 2018, 5, 470-477.	2.2	5
23	Thermodynamic anomaly above the superconducting critical temperature in the quasi-one-dimensional superconductor $\text{Ta}_4\text{Te}_{10}$. <i>Physical Review B</i> , 2017, 95, .	3.2	10
24	The influence of magnetic order on the magnetoresistance anisotropy of $\text{Fe}_{1-x}\text{As}_x\text{Cu}_x\text{Te}$. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 285801.	2.8	1
25	Emergent magnetic anisotropy in the cubic heavy-fermion metal CeIn_3 . <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	14
26	Electronic in-plane symmetry breaking at field-tuned quantum criticality in CeRhIn_5 . <i>Nature</i> , 2017, 548, 313-317.	27.8	89
27	Correlated states in $\hat{1}^2\text{-Li}_2\text{IrO}_3$ driven by applied magnetic fields. <i>Nature Communications</i> , 2017, 8, 961.	12.8	43
28	Transport evidence for Fermi-arc-mediated chirality transfer in the Dirac semimetal Cd_3As_2 . <i>Nature</i> , 2016, 535, 266-270.	27.8	292
29	Scaling between magnetic field and temperature in the high-temperature superconductor $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$. <i>Nature Physics</i> , 2016, 12, 916-919.	16.7	92
30	Correlation between Fermi surface transformations and superconductivity in the electron-doped high- T_c Nd_2CuO_4 . <i>Physical Review B</i> , 2015, 92, .	12.1	39
31	Magnetic quantum oscillations in the charge-density-wave state of the organic metals $\hat{1}\pm\text{-(BEDT-TTF)}_2\text{MHg(SCN)}_4$ with $\text{M}=\text{K}$ and Tl . <i>Low Temperature Physics</i> , 2014, 40, 377-383.	0.6	8
32	Electron-tunneling measurements of low- T_c single-layer $\text{Bi}_{2-x}\text{Sr}_x\text{CuO}_6$: Evidence for a scaling disparity between superconducting and pseudogap states. <i>Physical Review B</i> , 2012, 86, .	3.2	16
33	Fermi surface of the electron-doped cuprate superconductor $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ probed by high-field magnetotransport. <i>New Journal of Physics</i> , 2011, 13, 015001.	2.9	39
34	Advances in single crystal growth and annealing treatment of electron-doped HTSC. <i>European Physical Journal: Special Topics</i> , 2010, 188, 61-72.	2.6	23
35	Magnetic Breakdown in the Electron-Doped Cuprate Superconductor Nd_2CuO_4 . <i>Physical Review Letters</i> , 2010, 105, 247002. https://doi.org/10.1103/PhysRevLett.105.247002	7.8	38
36	Evolution of the Fermi Surface of the Electron-Doped High-Temperature Superconductor Nd_2CuO_4 by Shubnikov-de Haas Oscillations. <i>Physical Review Letters</i> , 2009, 103, 157002.	7.8	120