

Christoph Heil

List of Publications by Year in descending order

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papers

995
citations

566801

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552369

26
g-index

26
all docs

26
docs citations

26
times ranked

1099
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2021 room-temperature superconductivity roadmap. Journal of Physics Condensed Matter, 2022, 34, 183002.	0.7	79
2	Intrinsic and doping-enhanced superconductivity in monolayer H^{doped} : Critical role of charge ordering and spin-orbit coupling. Physical Review B, 2022, 105, .	1.1	95
3	In-silico synthesis of lowest-pressure high-Tc ternary superhydrides. Npj Computational Materials, 2022, 8, .	3.5	25
4	Magnetic surface reconstruction in the van der Waals antiferromagnet Fe_2Te . Physical Review B, 2021, 103, .	4.5	2
5	Superconductivity and strong anharmonicity in novel NbS_2 phases. Journal of Physics Condensed Matter, 2021, 33, 174001.	0.7	2
6	Strain-Stabilized $(\text{I}\epsilon, \text{I}\epsilon)$ Order at the Surface of FeTe . Nano Letters, 2021, 21, 2786-2792.	4.5	2
7	Towards high- T_c low-pressure superconductivity in ternary superhydrides. Physical Review B, 2021, 104, .	1.1	95
8	Probing Magnetic Exchange Interactions with Helium. Physical Review Letters, 2021, 127, 166803.	2.9	1
9	Electronic, vibrational, and electron-phonon coupling properties in SnSe_2 and SnS_2 under pressure. Journal of Materials Chemistry C, 2020, 8, 16404-16417.	2.7	12
10	Electronic structure and superconductivity of the non-centrosymmetric Sn_4As_3 . New Journal of Physics, 2020, 22, 063049.	1.2	10
11	The 2021 quantum materials roadmap. JPhys Materials, 2020, 3, 042006.	1.8	111
12	Coexistence of Superconductivity with Enhanced Charge Density Wave Order in the Two-Dimensional Limit of TaSe_2 . Journal of Physical Chemistry Letters, 2019, 10, 4076-4081.	2.1	44
13	Superconductivity in sodalite-like yttrium hydride clathrates. Physical Review B, 2019, 99, .	1.1	92
14	Manipulating surface magnetic order in iron telluride. Science Advances, 2019, 5, eaav3478.	4.7	18
15	Unusual Pressure-Induced Periodic Lattice Distortion in SnSe_2 . Physical Review Letters, 2018, 121, 027003.	2.9	24
16	Quasiparticle structures and Fermi surfaces of bulk and monolayer $\text{G}_2\text{W}_2\text{NbS}_2$. Physical Review B, 2018, 98, .	1.1	15
17	Absence of superconductivity in iron polyhydrides at high pressures. Physical Review B, 2018, 97, .	1.1	28
18	Origin of Superconductivity and Latent Charge Density Wave in NbS_2 . Physical Review Letters, 2017, 119, 087003.	2.9	108

#	ARTICLE	IF	CITATIONS
19	Search for high- T_c superconductivity at megabar pressures in the lithium-sulfur system. Physical Review B, 2016, 94, .	1.1	40
20	Superconductivity in metastable phases of phosphorus-hydride compounds under high pressure. Physical Review B, 2016, 93, .	1.1	125
21	Influence of bonding on superconductivity in high-pressure hydrides. Physical Review B, 2015, 92, .	1.1	91
22	Accurate bare susceptibilities from full-potential <i>ab initio</i> calculations. Physical Review B, 2014, 90, .	1.1	23
23	Effect of the iron valence in the two types of layers in LiFeO_2 . Physical Review B, 2014, 90, .	1.1	4
24	Strong coupling expansion for the Bose-Hubbard and Jaynes-Cummings lattice models. Journal of Physics Condensed Matter, 2012, 24, 295601.	0.7	10
25	Steady-state spectra, current, and stability diagram of a quantum dot: A nonequilibrium variational cluster approach. Physical Review B, 2012, 86, .	1.1	19
26	Impact of the beam pipe design on the operation parameters of the superconducting magnets for the SIS 100 synchrotron of the FAIR project. Journal of Physics: Conference Series, 2010, 234, 032012.	0.3	2