

Christoph Heil

List of Publications by Year in descending order

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26
papers

995
citations

566801

15
h-index

552369

26
g-index

26
all docs

26
docs citations

26
times ranked

1099
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity in metastable phases of phosphorus-hydride compounds under high pressure. Physical Review B, 2016, 93, .	1.1	125
2	The 2021 quantum materials roadmap. JPhys Materials, 2020, 3, 042006.	1.8	111
3	Origin of Superconductivity and Latent Charge Density Wave in NbS_2 . Physical Review Letters, 2017, 119, 087003.	2.9	108
4	Towards high- T_c low-pressure superconductivity in ternary superhydrides. Physical Review B, 2021, 104, .	1.1	95
5	Superconductivity in sodalite-like yttrium hydride clathrates. Physical Review B, 2019, 99, .	1.1	92
6	Influence of bonding on superconductivity in high-pressure hydrides. Physical Review B, 2015, 92, .	1.1	91
7	The 2021 room-temperature superconductivity roadmap. Journal of Physics Condensed Matter, 2022, 34, 183002.	0.7	79
8	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
9	Search for high- T_c superconductivity at megabar pressures in the lithium-sulfur system. Physical Review B, 2016, 94, .	1.1	40
10	Absence of superconductivity in iron polyhydrides at high pressures. Physical Review B, 2018, 97, .	1.1	28
11	In-silico synthesis of lowest-pressure high- T_c ternary superhydrides. Npj Computational Materials, 2022, 8, .	3.5	25
12	Unusual Pressure-Induced Periodic Lattice Distortion in SnSe_2 . Physical Review Letters, 2018, 121, 027003.	2.9	24
13	Accurate bare susceptibilities from full-potential <i>ab initio</i> calculations. Physical Review B, 2014, 90, .	1.1	23
14	Steady-state spectra, current, and stability diagram of a quantum dot: A nonequilibrium variational cluster approach. Physical Review B, 2012, 86, .	1.1	19
15	Manipulating surface magnetic order in iron telluride. Science Advances, 2019, 5, eaav3478.	4.7	18
16	Quasiparticle structures and Fermi surfaces of bulk and monolayer $\text{G}_2\text{W}_2\text{S}_2$. Physical Review B, 2018, 98, .	1.1	15
17	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
18	Strong coupling expansion for the Bose-Hubbard and Jaynes-Cummings lattice models. Journal of Physics Condensed Matter, 2012, 24, 295601.	0.7	10

#	ARTICLE	IF	CITATIONS
19	Electronic structure and superconductivity of the non-centrosymmetric Sn_4As_3 . New Journal of Physics, 2020, 22, 063049.	1.2	10
20	Intrinsic and doping-enhanced superconductivity in monolayer H_xTe : Critical role of charge ordering and spin-orbit coupling. Physical Review B, 2022, 105, .		
21	Magnetic surface reconstruction in the van der Waals antiferromagnet Fe_xTe : Effect of the iron valence in the two types of layers in LiFeO_2 . Physical Review B, 2021, 103, .		
22	Effect of the iron valence in the two types of layers in LiFeO_2 . Physical Review B, 2021, 103, .	1.1	4
23	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
24	Superconductivity and strong anharmonicity in novel Nb_xS phases. Journal of Physics Condensed Matter, 2021, 33, 174001.	0.7	2
25	Strain-Stabilized $(\sqrt{3}\sqrt{3})$ Order at the Surface of Fe_{1+x}Te . Nano Letters, 2021, 21, 2786-2792.	4.5	2
26	Probing Magnetic Exchange Interactions with Helium. Physical Review Letters, 2021, 127, 166803.	2.9	1