

Jan-Hendrik PÄhls

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

764
citations

687363

13
h-index

940533

16
g-index

17
all docs

17
docs citations

17
times ranked

1139
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding thermoelectric properties from high-throughput calculations: trends, insights, and comparisons with experiment. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4414-4426.	5.5	193
2	Achieving $zT > 1$ in Inexpensive Zintl Phase $\text{Ca}_9\text{Zn}_4\text{X}_9\text{Sb}_9$ by Phase Boundary Mapping. <i>Advanced Functional Materials</i> , 2017, 27, 1606361.	14.9	129
3	Computational and experimental investigation of TmAgTe_2 and XYZ_2 compounds, a new group of thermoelectric materials identified by first-principles high-throughput screening. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10554-10565.	5.5	99
4	Metal phosphides as potential thermoelectric materials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12441-12456.	5.5	53
5	YCuTe_2 : a member of a new class of thermoelectric materials with CuTe_4 -based layered structure. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2461-2472.	10.3	52
6	Experimental validation of high thermoelectric performance in RECuZnP_2 predicted by high-throughput DFT calculations. <i>Materials Horizons</i> , 2021, 8, 209-215.	12.2	38
7	Mechanisms of electron-phonon coupling unraveled in momentum and time: The case of soft phonons in TiSe_2 . <i>Science Advances</i> , 2021, 7, .	10.3	38
8	Time- and momentum-resolved phonon population dynamics with ultrafast electron diffuse scattering. <i>Physical Review B</i> , 2019, 100, .	3.2	33
9	Origins of ultralow thermal conductivity in 1-2-1-4 quaternary selenides. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2589-2596.	10.3	28
10	Direct visualization of polaron formation in the thermoelectric SnSe . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	23
11	Origins of ultralow thermal conductivity in bulk [6,6]-phenyl-C ₆₁ -butyric acid methyl ester (PCBM). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1185-1190.	2.8	20
12	First-principles calculations and experimental studies of XYZ_2 thermoelectric compounds: detailed analysis of van der Waals interactions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19502-19519.	10.3	20
13	Hexagonal Double Perovskite $\text{Cs}_2\text{AgCrCl}_6$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 323-328.	1.2	16
14	Thermoelectric properties of inverse perovskites A_3TtO ($\text{A} = \text{Mg, Ca}$; $\text{Tt} = \text{Si}$) TiFTQqO	2.5	15
15	TOSSPB: Thermoelectric optimization based on scattering-dependent single-parabolic band model. <i>Computational Materials Science</i> , 2022, 206, 111152.	3.0	8
16	Ultrafast Electron Scattering: Femtosecond Electron Pulses in Materials Research. , 2021, , .		0