

Yaxian Wang

List of Publications by Year in descending order

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22
papers

495
citations

933447

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924
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman Spectroscopy, Photocatalytic Degradation, and Stabilization of Atomically Thin Chromium Tri-iodide. <i>Nano Letters</i> , 2018, 18, 4214-4219.	9.1	131
2	Imaging phonon-mediated hydrodynamic flow in WTe ₂ . <i>Nature Physics</i> , 2021, 17, 1216-1220.	16.7	72
3	Synthesis of 1T, 2H, and 6R Germanane Polytypes. <i>Chemistry of Materials</i> , 2018, 30, 1335-1343.	6.7	53
4	The Fermi surface geometrical origin of axis-dependent conduction polarity in layered materials. <i>Nature Materials</i> , 2019, 18, 568-572.	27.5	46
5	Highly efficient transverse thermoelectric devices with Re ₄ Si ₇ crystals. <i>Energy and Environmental Science</i> , 2021, 14, 4009-4017.	30.8	29
6	Evidence for Dominant Phonon-Electron Scattering in Weyl Semimetal WP_2 . <i>Physical Review X</i> , 2021, 11, .	8.9	28
7	Raman Structure Investigations of CaO-MgO-Al ₂ O ₃ -SiO ₂ -CrO _x and Its Correlation with Sulfide Capacity. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 10-15.	2.1	20
8	The Chemical Design Principles for Axis-Dependent Conduction Polarity. <i>Journal of the American Chemical Society</i> , 2020, 142, 2812-2822.	13.7	18
9	Layer- and gate-tunable spin-orbit coupling in a high-mobility few-layer semiconductor. <i>Science Advances</i> , 2021, 7, .	10.3	16
10	Computationally Guided Discovery of Axis-Dependent Conduction Polarity in NaSnAs Crystals. <i>Chemistry of Materials</i> , 2021, 33, 946-951.	6.7	13
11	Sulfide Capacities of CaO-MgO-Al ₂ O ₃ -SiO ₂ -CrO _x Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 2558-2563.	2.1	11
12	Mesoscopic finite-size effects of unconventional electron transport in PdCoO ₂ . <i>Physical Review Materials</i> , 2022, 6, .	2.4	9
13	Anisotropic scattering in the goniopolar metal Na ₃ Sb. <i>Physical Review B</i> , 2020, 102, .	5.2	8
14	Influence of Surface Chemistry on Water Absorption in Functionalized Germanane. <i>Chemistry of Materials</i> , 2020, 32, 1537-1544.	6.7	8
15	Identification of Ge vacancies as electronic defects in methyl- and hydrogen-terminated germanane. <i>Applied Physics Letters</i> , 2018, 113, 061110.	3.3	7
16	Sondheimer oscillations as a probe of non-ohmic flow in WP ₂ crystals. <i>Nature Communications</i> , 2021, 12, 4799.	12.8	7
17	Synthesis and characterization of a new family of layered Pb _x Sn _{4-x} As ₃ alloys. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6477-6483.	5.5	5
18	Estimating Electrical Conductivities of CaO-MgO-Al ₂ O ₃ -SiO ₂ Using Ion-Oxygen Parameter. <i>High Temperature Materials and Processes</i> , 2016, 35, 253-259.	1.4	4

#	ARTICLE	IF	CITATIONS
19	Identification of turbostratic twisting in germanane. Journal of Materials Chemistry C, 2019, 7, 10092-10097.	5.5	4
20	Synthesis, structural, and electronic properties of Sr _{1-x} Ca _x PdAs. Inorganic Chemistry Frontiers, 2020, 7, 2833-2839.	6.0	3
21	Native point defects from stoichiometry-linked chemical potentials in cubic boron arsenide. Journal of Applied Physics, 2021, 129, 075703.	2.5	2
22	Nonlinear Arrhenius behavior of self-diffusion in Ti^2O_3 and Mo . Physical Review Materials, 2022, 6, .	2.4	1