Yaxian Wang

List of Publications by Year
in descending order

22	495	933447 10	677142 22
papers	citations	h-index	g-index

22	22	22	924
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mesoscopic finite-size effects of unconventional electron transport in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">PdCoO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Materials, 2022, 6, .	2.4	9
2	Nonlinear Arrhenius behavior of self-diffusion in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>Ti</mml:mi></mm and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Mo</mml:mi></mml:math>. Physical Review Materials, 2022, 6, .	2.4	1
3	Highly efficient transverse thermoelectric devices with Re₄Si₇ crystals. Energy and Environmental Science, 2021, 14, 4009-4017.	30.8	29
4	Evidence for Dominant Phonon-Electron Scattering in Weyl Semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WP</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m Physical Review X, 2021, 11, .	8.9	28
5	Layer- and gate-tunable spin-orbit coupling in a high-mobility few-layer semiconductor. Science Advances, 2021, 7, .	10.3	16
6	Synthesis and characterization of a new family of layered Pb_xSn_{4â^'x}As₃alloys. Journal of Materials Chemistry C, 2021, 9, 6477-6483.	5.5	5
7	Computationally Guided Discovery of Axis-Dependent Conduction Polarity in NaSnAs Crystals. Chemistry of Materials, 2021, 33, 946-951.	6.7	13
8	Native point defects from stoichiometry-linked chemical potentials in cubic boron arsenide. Journal of Applied Physics, 2021, 129, 075703.	2.5	2
9	Sondheimer oscillations as a probe of non-ohmic flow in WP2 crystals. Nature Communications, 2021, 12, 4799.	12.8	7
10	Imaging phonon-mediated hydrodynamic flow in WTe2. Nature Physics, 2021, 17, 1216-1220.	16.7	72
11	Anisotropic scattering in the goniopolar metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Na</mml:mi><mml:msub><mml:mi>Bi</mml:mi><mml:mi>m Physical Review B, 2020, 102, .	3.8	8
12	Synthesis, structural, and electronic properties of Sr_{1â^'x}Ca_xPdAs. Inorganic Chemistry Frontiers, 2020, 7, 2833-2839.	6.0	3
13	Influence of Surface Chemistry on Water Absorption in Functionalized Germanane. Chemistry of Materials, 2020, 32, 1537-1544.	6.7	8
14	The Chemical Design Principles for Axis-Dependent Conduction Polarity. Journal of the American Chemical Society, 2020, 142, 2812-2822.	13.7	18
15	Identification of turbostratic twisting in germanane. Journal of Materials Chemistry C, 2019, 7, 10092-10097.	5.5	4
16	The Fermi surface geometrical origin of axis-dependent conduction polarity in layered materials. Nature Materials, 2019, 18, 568-572.	27.5	46
17	Synthesis of 1T, 2H, and 6R Germanane Polytypes. Chemistry of Materials, 2018, 30, 1335-1343.	6.7	53
18	Identification of Ge vacancies as electronic defects in methyl- and hydrogen-terminated germanane. Applied Physics Letters, 2018, 113, 061110.	3.3	7

#	Article	IF	Citations
19	Raman Spectroscopy, Photocatalytic Degradation, and Stabilization of Atomically Thin Chromium Tri-iodide. Nano Letters, 2018, 18, 4214-4219.	9.1	131
20	Sulfide Capacities of CaO-MgO-Al2O3-SiO2-CrO x Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2558-2563.	2.1	11
21	Raman Structure Investigations of CaO-MgO-Al2O3-SiO2-CrO x and Its Correlation with Sulfide Capacity. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 10-15.	2.1	20
22	Estimating Electrical Conductivities of CaO-MgO-Al2O3-SiO2 Using Ion-Oxygen Parameter. High Temperature Materials and Processes, 2016, 35, 253-259.	1.4	4