

Peitao Liu

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

736
citations

15
h-index

26
g-index

35
ext. papers

968
ext. citations

4.1
avg, IF

4.31
L-index

#	Paper	IF	Citations
33	Revealing the quasiparticle electronic and excitonic nature in cubic, tetragonal, and hexagonal phases of FAPbI ₃ . <i>AIP Advances</i> , 2022 , 12, 025330	1.5	
32	Interplay between multipolar spin interactions, Jahn-Teller effect, and electronic correlation in a Jeff=32 insulator. <i>Physical Review B</i> , 2021 , 103,	3.3	1
31	Advanced First-Principle Modeling of Relativistic Ruddlesden-Popper Strontium Iridates. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2527	2.6	1
30	Phase transition of zirconium predicted by on-the-fly machine-learned force field. <i>Physical Review Materials</i> , 2021 , 5,	3.2	2
29	Nanoscale synthesis of ionic analogues of bilayer silicene with high carrier mobility. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8545-8551	7.1	2
28	Thermal transport and phase transitions of zirconia by on-the-fly machine-learned interatomic potentials. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	6
27	Assessing model-dielectric-dependent hybrid functionals on the antiferromagnetic transition-metal monoxides MnO, FeO, CoO, and NiO. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 015502	1.8	16
26	Kagome metal-organic frameworks as a platform for strongly correlated electrons. <i>JPhys Materials</i> , 2020 , 3, 025001	4.2	2
25	Tunable relativistic quasiparticle electronic and excitonic behavior of the FAPb(I _{1-x} Br _x) alloy. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11943-11955	3.6	10
24	Comparative ab initio study of the structural, electronic, magnetic, and dynamical properties of LiOsO ₃ and NaOsO ₃ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
23	Accurate optical spectra through time-dependent density functional theory based on screening-dependent hybrid functionals. <i>Physical Review Research</i> , 2020 , 2,	3.9	11
22	Osmates on the Verge of a Hund-Mott Transition: The Different Fates of NaOsO ₃ and LiOsO ₃ . <i>Physical Review Letters</i> , 2020 , 125, 166402	7.4	5
21	Aberrant electronic and structural alterations in pressure tuned perovskite NaOsO ₃ . <i>Npj Quantum Materials</i> , 2020 , 5,	5	1
20	Energetics of the coupled electronic-structural transition in the rare-earth nickelates. <i>Npj Quantum Materials</i> , 2019 , 4,	5	15
19	Cubic and tetragonal perovskites from the random phase approximation. <i>Physical Review Materials</i> , 2019 , 3,	3.2	6
18	Strain-induced tuning of the electronic Coulomb interaction in 3d transition metal oxide perovskites. <i>Physical Review B</i> , 2018 , 98,	3.3	10
17	Converged GW quasiparticle energies for transition metal oxide perovskites. <i>Physical Review Materials</i> , 2018 , 2,	3.2	28

16	Relativistic GW+BSE study of the optical properties of Ruddlesden-Popper iridates. <i>Physical Review Materials</i> , 2018 , 2,	3.2	23
15	Beyond the quasiparticle approximation: Fully self-consistent GW calculations. <i>Physical Review B</i> , 2018 , 98,	3.3	35
14	Magnetic properties of bilayer Sr3Ir2O7: Role of epitaxial strain and oxygen vacancies. <i>Physical Review B</i> , 2017 , 95,	3.3	12
13	Dimensionality-strain phase diagram of strontium iridates. <i>Physical Review B</i> , 2017 , 95,	3.3	26
12	GW100: A Plane Wave Perspective for Small Molecules. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 635-648	6.4	58
11	Merging GW with DMFT and non-local correlations beyond. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 2565-2590	2.3	30
10	Fast and Huge Anisotropic Diffusion of Cu (Ag) and Its Resistance on the Sn Self-diffusivity in Solid Sn. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 121-128	9.1	10
9	Electron and hole doping in the relativistic Mott insulator Sr2IrO4: A first-principles study using band unfolding technique. <i>Physical Review B</i> , 2016 , 94,	3.3	23
8	Lifshitz transition driven by spin fluctuations and spin-orbit renormalization in NaOsO3. <i>Physical Review B</i> , 2016 , 94,	3.3	27
7	Cubic scaling GW: Towards fast quasiparticle calculations. <i>Physical Review B</i> , 2016 , 94,	3.3	74
6	Anisotropic magnetic couplings and structure-driven canted to collinear transitions in Sr2IrO4 by magnetically constrained noncollinear DFT. <i>Physical Review B</i> , 2015 , 92,	3.3	55
5	First-principles studies of hydrogen behavior interacting with oxygen-enriched nanostructured particles in the ODS steels. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 18506-18519	6.7	6
4	Vacancy formation enthalpy of filled d-band noble metals by hybrid functionals. <i>Physical Review B</i> , 2014 , 90,	3.3	12
3	Effects of dilute substitutional solutes on interstitial carbon in Fe: Interactions and associated carbon diffusion from first-principles calculations. <i>Physical Review B</i> , 2014 , 90,	3.3	35
2	Interstitial-boron solution strengthened WB3+x. <i>Applied Physics Letters</i> , 2013 , 103, 171903	3.4	62
1	Extra-electron induced covalent strengthening and generalization of intrinsic ductile-to-brittle criterion. <i>Scientific Reports</i> , 2012 , 2, 718	4.9	123