

Peitao Liu

List of Publications by Citations

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papers

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ext. papers

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ext. citations

4.1
avg, IF

4.31
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 33 | Extra-electron induced covalent strengthening and generalization of intrinsic ductile-to-brittle criterion. <i>Scientific Reports</i> , 2012 , 2, 718 | 4.9 | 123 |
| 32 | Cubic scaling GW: Towards fast quasiparticle calculations. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 74 |
| 31 | Interstitial-boron solution strengthened WB _{3+x} . <i>Applied Physics Letters</i> , 2013 , 103, 171903 | 3.4 | 62 |
| 30 | GW100: A Plane Wave Perspective for Small Molecules. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 635-648 | 6.4 | 58 |
| 29 | Anisotropic magnetic couplings and structure-driven canted to collinear transitions in Sr ₂ IrO ₄ by magnetically constrained noncollinear DFT. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 55 |
| 28 | Effects of dilute substitutional solutes on interstitial carbon in ϵ -Fe: Interactions and associated carbon diffusion from first-principles calculations. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 35 |
| 27 | Beyond the quasiparticle approximation: Fully self-consistent GW calculations. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 35 |
| 26 | Merging GW with DMFT and non-local correlations beyond. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 2565-2590 | 2.3 | 30 |
| 25 | Converged GW quasiparticle energies for transition metal oxide perovskites. <i>Physical Review Materials</i> , 2018 , 2, | 3.2 | 28 |
| 24 | Lifshitz transition driven by spin fluctuations and spin-orbit renormalization in NaOsO ₃ . <i>Physical Review B</i> , 2016 , 94, | 3.3 | 27 |
| 23 | Dimensionality-strain phase diagram of strontium iridates. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 26 |
| 22 | Relativistic GW+BSE study of the optical properties of Ruddlesden-Popper iridates. <i>Physical Review Materials</i> , 2018 , 2, | 3.2 | 23 |
| 21 | Electron and hole doping in the relativistic Mott insulator Sr ₂ IrO ₄ : A first-principles study using band unfolding technique. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 23 |
| 20 | 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 |
| 19 | Energetics of the coupled electronic-structural transition in the rare-earth nickelates. <i>Npj Quantum Materials</i> , 2019 , 4, | 5 | 15 |
| 18 | Magnetic properties of bilayer Sr ₃ Ir ₂ O ₇ : Role of epitaxial strain and oxygen vacancies. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 12 |
| 17 | Vacancy formation enthalpy of filled d-band noble metals by hybrid functionals. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 12 |

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| 16 | 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 |
| 15 | Tunable relativistic quasiparticle electronic and excitonic behavior of the FAPb(I ₁ Br) alloy. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11943-11955 | 3.6 | 10 |
| 14 | 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 |
| 13 | Strain-induced tuning of the electronic Coulomb interaction in 3d transition metal oxide perovskites. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 10 |
| 12 | 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 |
| 11 | Cubic and tetragonal perovskites from the random phase approximation. <i>Physical Review Materials</i> , 2019 , 3, | 3.2 | 6 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | Kagome metal-organic frameworks as a platform for strongly correlated electrons. <i>JPhys Materials</i> , 2020 , 3, 025001 | 4.2 | 2 |
| 6 | Phase transition of zirconium predicted by on-the-fly machine-learned force field. <i>Physical Review Materials</i> , 2021 , 5, | 3.2 | 2 |
| 5 | 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 |
| 4 | Aberrant electronic and structural alterations in pressure tuned perovskite NaOsO ₃ . <i>Npj Quantum Materials</i> , 2020 , 5, | 5 | 1 |
| 3 | Interplay between multipolar spin interactions, Jahn-Teller effect, and electronic correlation in a Jeff=3/2 insulator. <i>Physical Review B</i> , 2021 , 103, | 3.3 | 1 |
| 2 | Advanced First-Principle Modeling of Relativistic Ruddlesden-Popper Strontium Iridates. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2527 | 2.6 | 1 |
| 1 | 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 | |