

Christopher E Patrick

List of Publications by Year in descending order

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32
papers

1,724
citations

394421

19
h-index

414414

32
g-index

32
all docs

32
docs citations

32
times ranked

2866
citing authors

#	ARTICLE	IF	CITATIONS
1	MARMOT: magnetism, anisotropy, and more, using the relativistic disordered local moment picture at finite temperature. <i>Electronic Structure</i> , 2022, 4, 017001.	2.8	5
2	Ab initio calculations of the phase behavior and subsequent magnetostriction of $\text{Fe}_x\text{Ga}_{1-x}$ within the disordered local moment picture. <i>Physical Review B</i> , 2021, 103, .	3.8	11
3	Extracting band-tail interface state densities from measurements and modelling of space charge layer resistance. <i>Solar Energy Materials and Solar Cells</i> , 2021, 231, 111307.	6.2	7
4	Spin Orientation and Magnetostriction of $\text{Tb}_x\text{Mn}_{1-x}$ from First Principles. <i>Physical Review Applied</i> , 2020, 14, .	3.8	11
5	Temperature-dependent spin polarization of Heusler Co_2MnSi from the disordered local-moment approach: Effects of atomic disordering and nonstoichiometry. <i>Physical Review B</i> , 2020, 102, .	3.2	14
6	Tunability of the spin reorientation transitions with pressure in NdCo_5 . <i>Applied Physics Letters</i> , 2020, 116, 102408.	3.3	2
7	Torque magnetometry study of the spin reorientation transition and temperature-dependent magnetocrystalline anisotropy in NdCo_5 . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 255802.	1.8	8
8	First-principles calculations of the magnetocrystalline anisotropy of the prototype 2:17 cell boundary phase $\text{YCo}_{1-x}\text{Fe}_x\text{Cu}_5$. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 477, 147-155.	2.3	9
9	Ab initio calculations of temperature-dependent magnetostriction of $\text{Fe}_x\text{A}_{2-x}$ within the disordered local moment picture. <i>Physical Review B</i> , 2019, 99, .	3.2	15
10	Crystal field coefficients for yttrium analogues of rare-earth/transition-metal magnets using density-functional theory in the projector-augmented wave formalism. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 305901.	1.8	9
11	Beyond the RPA and GW methods with adiabatic xc-kernels for accurate ground state and quasiparticle energies. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	33
12	Structural and magnetic properties of GdCo_5 . <i>Physical Review Materials</i> , 2019, 3, .	2.4	8
13	Temperature-dependent magnetocrystalline anisotropy of rare earth/transition metal permanent magnets from first principles: The light R_2Co_4 intermetallics. <i>Physical Review Materials</i> , 2019, 3, .	2.4	8
14	Calculating the Magnetic Anisotropy of Rare-Earth Transition-Metal Ferrimagnets. <i>Physical Review Letters</i> , 2018, 120, 097202.	7.8	34
15	Field-induced canting of magnetic moments in GdCo_5 at finite temperature: first-principles calculations and high-field measurements. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 32LT01.	1.8	4
16	Rare-earth/transition-metal magnets at finite temperature: Self-interaction-corrected relativistic density functional theory in the disordered local moment picture. <i>Physical Review B</i> , 2018, 97, .	3.2	31
17	Simple vertex correction improves band energies of bulk and two-dimensional crystals. <i>Physical Review B</i> , 2017, 96, .	3.2	31
18	Rare-earth/transition-metal magnetic interactions in pristine and (Ni,Fe)-doped YCo_5 and GdCo_5 . <i>Physical Review Materials</i> , 2017, 1, .	2.4	31

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19	Hubbard-U Hamiltonians for non-self-consistent random-phase approximation total-energy calculations: A study of ZnS, and NiO. Physical Review B, 2016, 93, .	3.2	19
20	Stochastic Approach to Phonon-Assisted Optical Absorption. Physical Review Letters, 2015, 115, 177401.	7.8	85
21	Anharmonic stabilization and band gap renormalization in the perovskite CsSn ₃ Bi ₂ Br ₁₀ . Physical Review B, 2015, 92, .	7.0	76
22	Adiabatic-connection fluctuation-dissipation DFT for the structural properties of solidsâ€”The renormalized ALDA and electron gas kernels. Journal of Chemical Physics, 2015, 143, 102802.	3.0	56
23	Unified theory of electronâ€”phonon renormalization and phonon-assisted optical absorption. Journal of Physics Condensed Matter, 2014, 26, 365503.	1.8	47
24	Atomic-Scale Observation of Multiconformational Binding and Energy Level Alignment of Ruthenium-Based Photosensitizers on TiO ₂ Anatase. Nano Letters, 2014, 14, 563-569.	9.1	67
25	Structure of a Water Monolayer on the Anatase TiO ₂ Anatase. Nano Letters, 2014, 14, 563-569.	9.1	67
26	TiO ₂ Anatase with a Bandgap in the Visible Region. Nano Letters, 2014, 14, 6533-6538.	9.1	531
27	quasiparticle band structures of stibnite, antimonselite, bismuthinite, and guanajuatite. Physical Review B, 2013, 87, .	6.2	178
28	Quantum nuclear dynamics in the photophysics of diamondoids. Nature Communications, 2013, 4, 2006.	12.8	88
29	Quantitative Analysis of Valence Photoemission Spectra and Quasiparticle Excitations at Chromophore-Semiconductor Interfaces. Physical Review Letters, 2012, 109, 116801.	7.8	26
30	GW quasiparticle bandgaps of anatase TiO ₂ starting from DFT +U. Journal of Physics Condensed Matter, 2012, 24, 202201.	1.8	67
31	Structural and Electronic Properties of Semiconductorâ€”Sensitized Solarâ€”Cell Interfaces. Advanced Functional Materials, 2011, 21, 4663-4667.	14.9	131
32	core-level shifts at the anatase TiO ₂ (101)/N ₃ photovoltaic interface: Signature of H-bonded supramolecular assembly. Physical Review B, 2011, 84, .	3.2	24