

Christopher E Patrick

List of Publications by Year in descending order

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32
papers

1,724
citations

394421

19
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414414

32
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32
all docs

32
docs citations

32
times ranked

2866
citing authors

#	ARTICLE	IF	CITATIONS
1	TiO ₂ Anatase with a Bandgap in the Visible Region. Nano Letters, 2014, 14, 6533-6538.	9.1	531
2	$G \cdot W$ quasiparticle band structures of stibnite, antimonselite, bismuthinite, and guanajuatite. Physical Review B, 2013, 87, .	8.2	178
3	Structural and Electronic Properties of Semiconductor-Sensitized Solar Cell Interfaces. Advanced Functional Materials, 2011, 21, 4663-4667.	14.9	131
4	Quantum nuclear dynamics in the photophysics of diamondoids. Nature Communications, 2013, 4, 2006.	12.8	88
5	Stochastic Approach to Phonon-Assisted Optical Absorption. Physical Review Letters, 2015, 115, 177401.	7.8	85
6	Anharmonic stabilization and band gap renormalization in the perovskite $CsSn_3$. Physical Review B, 2015, 92, .	7.0	76
7	GW quasiparticle bandgaps of anatase TiO ₂ starting from DFT + <i>U</i> . Journal of Physics Condensed Matter, 2012, 24, 202201.	1.8	67
8	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
9	Adiabatic-connection fluctuation-dissipation DFT for the structural properties of solids: The renormalized ALDA and electron gas kernels. Journal of Chemical Physics, 2015, 143, 102802.	3.0	56
10	Unified theory of electron-phonon renormalization and phonon-assisted optical absorption. Journal of Physics Condensed Matter, 2014, 26, 365503.	1.8	47
11	Structure of a Water Monolayer on the Anatase TiO ₂ . <i>J. Chem. Phys.</i> 131, 124701 (2009). doi:10.1063/1.3151111	11.2	112
12	Simple vertex correction improves $G \cdot W$ band energies of bulk and two-dimensional crystals. Physical Review B, 2017, 96, .	12.0	97
13	Calculating the Magnetic Anisotropy of Rare-Earth Transition-Metal Ferrimagnets. Physical Review Letters, 2018, 120, 097202.	7.8	34
14	Beyond the RPA and GW methods with adiabatic xc-kernels for accurate ground state and quasiparticle energies. Npj Computational Materials, 2019, 5, .	8.7	33
15	Rare-earth/transition-metal magnets at finite temperature: Self-interaction-corrected relativistic density functional theory in the disordered local moment picture. Physical Review B, 2018, 97, .	3.2	31
16	Rare-earth/transition-metal magnetic interactions in pristine and (Ni,Fe)-doped YCo ₅ and GdCo ₅ /temperature-dependent magnetocrystalline anisotropy Physical Review B, 2017, 96, .	2.4	31
17	Temperature-Dependent Magnetocrystalline Anisotropy of Rare-Earth Transition-Metal Permanent Magnets from First Principles: The Light R_2 C_{14} Intermetallics. Physical Review Materials, 2019, 3, .	11.7	27
18	Quantitative Analysis of Valence Photoemission Spectra and Quasiparticle Excitations at Chromophore-Semiconductor Interfaces. Physical Review Letters, 2012, 109, 116801.	7.8	26

#	ARTICLE	IF	CITATIONS
19	Core-level shifts at the anatase TiO ₂ (101)/N ₃ interface. <i>Physical Review B</i> , 2019, 99, 114407.	3.2	24
20	Hubbard-U Hamiltonians for non-self-consistent random-phase approximation total-energy calculations: A study of ZnS, TiO ₂ and NiO. <i>Physical Review B</i> , 2019, 99, 114408.	3.2	19
21	Calculations of temperature-dependent magnetostriction of Fe and Ni. <i>Physical Review B</i> , 2019, 99, 114409.	3.2	15
22	Temperature-dependent spin polarization of Heusler Co ₂ MnSi from the disordered local-moment approach: Effects of atomic disordering and nonstoichiometry. <i>Physical Review B</i> , 2020, 102, 040401.	3.2	14
23	Spin Orientation and Magnetostriction of Tb from First Principles. <i>Physical Review Applied</i> , 2020, 14, 014001.	3.8	11
24	First-principles calculations of the magnetocrystalline anisotropy of the prototype 2:17 cell boundary phase YCo _{1-x} Fe _x Cu ₅ . <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 477, 147-155.	2.3	9
25	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
26	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
27	Calculations of the phase behavior and subsequent magnetostriction of Fe _{1-x} Ga _x within the disordered local moment picture. <i>Physical Review B</i> , 2021, 103, 040401.	1.8	7
28	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
29	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
30	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
31	Structural and magnetic properties of GdCo ₂ . <i>Physical Review Materials</i> , 2019, 3, 034401.	2.4	2
32	Tunability of the spin reorientation transitions with pressure in NdCo ₅ . <i>Applied Physics Letters</i> , 2020, 116, 102408.	3.3	2