

Phil Hasnip

List of Publications by Year in descending order

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36
papers

19,892
citations

567144

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360920

35
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37
all docs

37
docs citations

37
times ranked

16839
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials and Molecular Modeling at the Exascale. Computing in Science and Engineering, 2022, 24, 36-45.	1.2	7
2	Portable Acceleration of Materials Modeling Software: CASTEP, GPUs, and OpenACC. Computing in Science and Engineering, 2022, 24, 46-55.	1.2	4
3	Significant improvement of the Seebeck coefficient of Fe ₂ VAI with antisite defects. Materials Today Communications, 2022, 31, 103510.	0.9	2
4	Modification of the van der Waals interaction at the Bi ₂ Se ₃ /Ge(111) interface. Physical Review Materials, 2021, 5, .	2.9	1
5	Electron-phonon interaction and superconductivity in hexagonal ternary carbides Nb ₂ AC (A: Al, S, Ge, As and Sn). Electronic Structure, 2021, 3, 045001.	1.0	5
6	Effective modelling of the Seebeck coefficient of Fe ₂ VAI. Journal of Physics Condensed Matter, 2020, 32, 125401.	0.7	4
7	Computing the self-consistent field in Kohn-Sham density functional theory. Journal of Physics Condensed Matter, 2019, 31, 453001.	0.7	38
8	Off-the-shelf DFT-DISPersion methods: Are they now a trend for organic molecular crystals?. Journal of Chemical Physics, 2019, 151, 044106.	1.2	11
9	Simultaneous Prediction of the Magnetic and Crystal Structure of Materials Using a Genetic Algorithm. Crystals, 2019, 9, 439.	1.0	8
10	Huge power factor in p-type half-Heusler alloys NbFeSb and TaFeSb. JPhys Materials, 2019, 2, 035002.	1.8	33
11	DL_MG: A Parallel Multigrid Poisson and Poisson-Boltzmann Solver for Electronic Structure Calculations in Vacuum and Solution. Journal of Chemical Theory and Computation, 2018, 14, 1412-1432.	2.3	31
12	Correlation between spin transport signal and Heusler/semiconductor interface quality in lateral spin-valve devices. Physical Review B, 2018, 98, .	1.1	15
13	Many-body renormalization of forces in f-electron materials. Physical Review B, 2018, 98, .	1.1	20
14	Structure of naturally hydrated ferrihydrite revealed through neutron diffraction and first-principles modeling. Physical Review Materials, 2017, 1, .	0.9	11
15	Realisation of magnetically and atomically abrupt half-metal/semiconductor interface: Co ₂ FeSi _{0.5} Al _{0.5} /Ge(111). Scientific Reports, 2016, 6, 37282.	1.6	18
16	The role of chemical structure on the magnetic and electronic properties of Co ₂ FeAl _{0.5} Si _{0.5} /Si(111) interface. Applied Physics Letters, 2016, 108, .	1.5	15
17	Experimental and density functional study of Mn doped Bi ₂ Te ₃ topological insulator. APL Materials, 2016, 4, .	2.2	14
18	Controlling the half-metallicity of Heusler/Si(100) interfaces by a monolayer of Si-Co-Si. Journal of Physics Condensed Matter, 2016, 28, 395003.	0.7	3

#	ARTICLE	IF	CITATIONS
19	Reproducibility in density functional theory calculations of solids. <i>Science</i> , 2016, 351, aad3000.	6.0	1,113
20	The effect of atomic structure on interface spin-polarization of half-metallic spin valves: Co ₂ MnSi/Ag epitaxial interfaces. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	13
21	Theoretical study of core-loss electron energy-loss spectroscopy at graphene nanoribbon edges. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 305301.	0.7	5
22	Correlations between atomic structure and giant magnetoresistance ratio in Co ₂ (Fe,Mn)Si spin valves. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 322003.	1.3	7
23	The Effect of Cobalt-Sublattice Disorder on Spin Polarisation in Co ₂ Fe _x Mn _{1-x} Si Heusler Alloys. <i>Materials</i> , 2014, 7, 1473-1482.	1.3	9
24	Density functional theory in the solid state. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130270.	1.6	242
25	Exchange coupling and magnetic anisotropy at Fe/FePt interfaces. <i>Physical Review B</i> , 2013, 88, .	1.1	31
26	<i>Ab initio</i> studies of disorder in the full Heusler alloy Co ₂ Fe _x Mn _{1-x} Si. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	36
27	The effect of MgO(111) interlayer on the interface phase stability and structure of BaFe ₂ O ₁₉ /SiC(0001). <i>Journal of Applied Physics</i> , 2012, 111, 07A515.	1.1	3
28	Growth and interface phase stability of barium hexaferrite films on SiC(0001). <i>Journal of Applied Physics</i> , 2011, 109, 07E520.	1.1	9
29	Dynamically Stabilized Growth of Polar Oxides: The Case of MgO(111). <i>Physical Review Letters</i> , 2011, 107, 056101.	2.9	27
30	Tailoring the electrical properties of Ge/GaAs by film deposition rate and preparation of fully compensated Ge films. <i>Physical Review B</i> , 2011, 84, .	1.1	9
31	A fast, stable method for density functional simulations of nanostructures. <i>Journal of Physics: Conference Series</i> , 2011, 286, 012034.	0.3	0
32	The effect of film and interface structure on the transport properties of Heusler based current-perpendicular-to-plane spin valves. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	14
33	Electron and vibrational spectroscopies using DFT, plane waves and pseudopotentials: CASTEP implementation. <i>Computational and Theoretical Chemistry</i> , 2010, 954, 22-35.	1.5	205
34	Electronic energy minimisation with ultrasoft pseudopotentials. <i>Computer Physics Communications</i> , 2006, 174, 24-29.	3.0	86
35	First principles methods using CASTEP. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, .	0.4	9,458
36	First-principles simulation: ideas, illustrations and the CASTEP code. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 2717-2744.	0.7	8,382