

Damien J Carter

List of Publications by Year in descending order

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22
papers

650
citations

623734

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h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

925
citing authors

#	ARTICLE	IF	CITATIONS
1	Powder diffraction and crystal structure prediction identify four new coumarin polymorphs. <i>Chemical Science</i> , 2017, 8, 4926-4940.	7.4	97
2	Geometry and diameter dependence of the electronic and physical properties of GaN nanowires from first principles. <i>Physical Review B</i> , 2008, 77, .	3.2	88
3	Resorcinol Crystallization from the Melt: A New Ambient Phase and New "Riddles". <i>Journal of the American Chemical Society</i> , 2016, 138, 4881-4889.	13.7	74
4	Benchmarking Calculated Lattice Parameters and Energies of Molecular Crystals Using van der Waals Density Functionals. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3423-3437.	5.3	56
5	Electronic structure models of phosphorus $\hat{\Gamma}$ -doped silicon. <i>Physical Review B</i> , 2009, 79, .	3.2	48
6	Phosphorus $\hat{\Gamma}$ -doped silicon: mixed-atom pseudopotentials and dopant disorder effects. <i>Nanotechnology</i> , 2011, 22, 065701.	2.6	34
7	Prediction of Soai Reaction Enantioselectivity Induced by Crystals of <i>N</i> -(2-Thienylcarbonyl)glycine. <i>Crystal Growth and Design</i> , 2012, 12, 2138-2145.	3.0	32
8	Controlling Mesoscale Crystal Helicity with Additives, Again. <i>Crystal Growth and Design</i> , 2011, 11, 2070-2073.	3.0	31
9	Noncovalent Interactions in SIESTA Using the vdW-DF Functional: S22 Benchmark and Macrocyclic Structures. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 281-289.	5.3	26
10	Structural Correspondence of Solution, Liquid Crystal, and Crystalline Phases of the Chromonic Mesogen Sunset Yellow. <i>Crystal Growth and Design</i> , 2014, 14, 4166-4176.	3.0	21
11	Bottom-up assembly of metallic germanium. <i>Scientific Reports</i> , 2015, 5, 12948.	3.3	21
12	Difference Hirshfeld fingerprint plots: a tool for studying polymorphs. <i>CrystEngComm</i> , 2017, 19, 2207-2215.	2.6	20
13	Valley Splitting in a Silicon Quantum Device Platform. <i>Nano Letters</i> , 2014, 14, 1515-1519.	9.1	18
14	Silver(i), gold(i) and palladium(ii) complexes of a NHC-pincer ligand with an aminotriazine core: a comparison with pyridyl analogues. <i>Dalton Transactions</i> , 2016, 45, 1484-1495.	3.3	15
15	Quantum confinement effects in gallium nitride nanostructures: <i>ab initio</i> investigations. <i>Nanotechnology</i> , 2009, 20, 425401.	2.6	14
16	Developing an understanding of undergraduate student interactions in chemistry laboratories. <i>Chemistry Education Research and Practice</i> , 2018, 19, 1186-1198.	2.5	13
17	van der Waals corrected density functional calculations of the adsorption of benzene on the Cu (111) surface. <i>Journal of Computational Chemistry</i> , 2014, 35, 2263-2271.	3.3	11
18	Timoshenko Bending and Eshelby Twisting Predicted in Molecular Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25085-25091.	3.1	9

#	ARTICLE	IF	CITATIONS
19	<i>Ab Initio</i> Molecular Dynamics Simulations of (101) Surfaces of Potassium Dihydrogenphosphate. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1604-1609.	5.3	8
20	Adsorption energetics of potassium sulfate dye inclusion crystals. <i>Journal of Molecular Structure</i> , 2003, 647, 65-73.	3.6	6
21	<i>Ab Initio</i> Simulations of the (101) Surfaces of Potassium Dihydrogenphosphate (KDP). <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 797-800.	5.3	5
22	Computational methodology for chirality determination in the Soai reaction by crystals: β -glycine. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	3