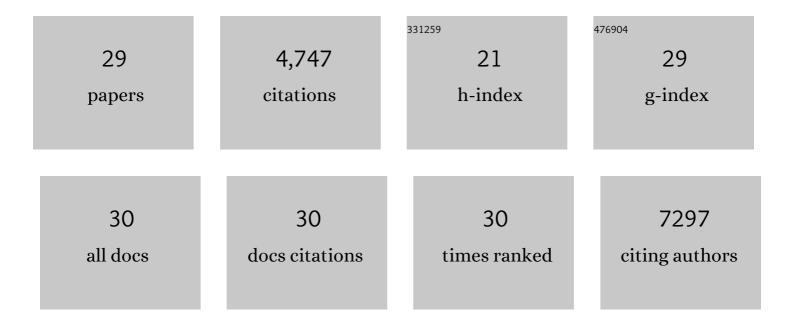
Thomas W Keal

List of Publications by Year in descending order

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THOMAS W KEAL

#	Article	IF	CITATIONS
1	Materials and Molecular Modeling at the Exascale. Computing in Science and Engineering, 2022, 24, 36-45.	1.2	7
2	QM/MM Simulations of Protein Crystal Reactivity Guided by MSOX Crystallography: A Copper Nitrite Reductase Case Study. Journal of Physical Chemistry B, 2021, 125, 9102-9114.	1.2	3
3	Donor and acceptor characteristics of native point defects in GaN. Journal Physics D: Applied Physics, 2019, 52, 335104.	1.3	49
4	Hybrid-DFT Modeling of Lattice and Surface Vacancies in MnO. Journal of Physical Chemistry C, 2019, 123, 8133-8144.	1.5	10
5	Open-Source, Python-Based Redevelopment of the ChemShell Multiscale QM/MM Environment. Journal of Chemical Theory and Computation, 2019, 15, 1317-1328.	2.3	46
6	A QM/MM Study of Nitrite Binding Modes in a Three-Domain Heme-Cu Nitrite Reductase. Molecules, 2018, 23, 2997.	1.7	5
7	Prediction of multiband luminescence due to the gallium vacancy–oxygen defect complex in GaN. Applied Physics Letters, 2018, 112, .	1.5	25
8	Enzyme catalysis captured using multiple structures from one crystal at varying temperatures. IUCrJ, 2018, 5, 283-292.	1.0	26
9	Demonstration of the donor characteristics of Si and O defects in GaN using hybrid QM/MM. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600445.	0.8	16
10	Active-site protein dynamics and solvent accessibility in native <i>Achromobacter cycloclastes</i> copper nitrite reductase. IUCrJ, 2017, 4, 495-505.	1.0	11
11	Modelling the chemistry of Mn-doped MgO for bulk and (100) surfaces. Physical Chemistry Chemical Physics, 2016, 18, 28648-28660.	1.3	11
12	<scp>C</scp> hem <scp>S</scp> hell—a modular software package for <scp>QM</scp> / <scp>MM</scp> simulations. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2014, 4, 101-110.	6.2	351
13	Limits to Doping of Wide Band Gap Semiconductors. Chemistry of Materials, 2013, 25, 2924-2926.	3.2	57
14	Band alignment of rutile and anatase TiO2. Nature Materials, 2013, 12, 798-801.	13.3	1,924
15	Activation of Carbon Dioxide over Zinc Oxide by Localised Electrons. ChemPhysChem, 2012, 13, 3453-3456.	1.0	34
16	Characterization of hydrogen dissociation over aluminium-doped zinc oxide using an efficient massively parallel framework for QM/MM calculations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 1900-1924.	1.0	21
17	Assessment of semiempirical methods for the photoisomerisation of a protonated Schiff base. Theoretical Chemistry Accounts, 2009, 123, 145-156.	0.5	49
18	DL-FIND: An Open-Source Geometry Optimizer for Atomistic Simulations. Journal of Physical Chemistry A, 2009, 113, 11856-11865.	1.1	466

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#	Article	IF	CITATIONS
19	Implementation of surface hopping molecular dynamics using semiempirical methods. Chemical Physics, 2008, 349, 334-347.	0.9	219
20	Combining insights from solid-state NMR and first principles calculation: applications to the 19F NMR of octafluoronaphthalene. Physical Chemistry Chemical Physics, 2007, 9, 2389.	1.3	39
21	Comparison of algorithms for conical intersection optimisation using semiempirical methods. Theoretical Chemistry Accounts, 2007, 118, 837-844.	0.5	126
22	Assessment of a Coulomb-attenuated exchange–correlation energy functional. Physical Chemistry Chemical Physics, 2006, 8, 558-562.	1.3	437
23	Choice of exchange-correlation functional for computing NMR indirect spin–spin coupling constants. Chemical Physics Letters, 2006, 425, 163-166.	1.2	54
24	Selenium chemistry with DFT: molecular structures and ⁷⁷ Se NMR shielding constants. Molecular Physics, 2005, 103, 1007-1011.	0.8	25
25	Semiempirical hybrid functional with improved performance in an extensive chemical assessment. Journal of Chemical Physics, 2005, 123, 121103.	1.2	131
26	GIAO shielding constants and indirect spin–spin coupling constants: performance of density functional methods. Chemical Physics Letters, 2004, 391, 374-379.	1.2	87
27	A semiempirical generalized gradient approximation exchange-correlation functional. Journal of Chemical Physics, 2004, 121, 5654-5660.	1.2	211
28	Improved NMR chemical shifts in density functional theory. Chemical Physics Letters, 2003, 380, 70-77.	1.2	53
29	The exchange-correlation potential in Kohn–Sham nuclear magnetic resonance shielding calculations. Journal of Chemical Physics, 2003, 119, 3015-3024.	1.2	254