Matthew J Cliffe

List of Publications by Year
in descending order

30	2,598	394421 19	477307 29
papers	citations	h-index	g-index

37	37	37	4086
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Controlling multiple orderings in metal thiocyanate molecular perovskites A_x{Ni[Bi(SCN)₆]}. Chemical Science, 2021, 12, 3516-3525.	7.4	5
2	A high-throughput, solvent free method for dispersing metal atoms directly onto supports. Journal of Materials Chemistry A, 2021, 9, 26676-26679.	10.3	6
3	Exploring the Role of Cluster Formation in UiO Family Hf Metalâ€“Organic Frameworks with in Situ X-ray Pair Distribution Function Analysis. Journal of the American Chemical Society, 2021, 143, 19668-19683.	13.7	24
4	Strengthening the Magnetic Interactions in Pseudobinary First-Row Transition Metal Thiocyanates, M(NCS)2. Inorganic Chemistry, 2020, 59, 11627-11639.	4.0	14
5	Direct Imaging of Correlated Defect Nanodomains in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2020, 142, 13081-13089.	13.7	65
6	The structures of ordered defects in thiocyanate analogues of Prussian Blue. Chemical Science, 2020, 11, 4430-4438.	7.4	10
7	SquidLabâ€”A user-friendly program for background subtraction and fitting of magnetization data. Review of Scientific Instruments, 2020, 91, 023901.	1.3	9
8	Ground and Excited States of Bisâ€4â€Methoxybenzylâ€Substituted Diketopyrrolopyrroles: Spectroscopic and Electrochemical Studies. ChemPlusChem, 2019, 84, 1413-1422.	2.8	10
9	Short-range ordering in a battery electrode, the â€˜cation-disorderedâ€™ rocksalt Li_{1.25}Nb_{0.25}Mn_{0.5}O₂. Chemical Communications, 2019, 55, 9027-9030.	4.1	58
10	Ionic and Electronic Conduction in TiNb₂O₇. Journal of the American Chemical Society, 2019, 141, 16706-16725.	13.7	134
11	Strongly coloured thiocyanate frameworks with perovskite-analogue structures. Chemical Science, 2019, 10, 793-801.	7.4	30
12	Engineering new defective phases of UiO family metalâ€“organic frameworks with water. Journal of Materials Chemistry A, 2019, 7, 7459-7469.	10.3	58
13	Low-dimensional quantum magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Cu</mml:mi><mml:msub><mml:mrow><mml:mo>(</mml:mo></mml:mrow><mml:mn>2</mml:mn><mml:mn> : A molecular framework material. Physical Review B, 2018, 97, .	3.2	19
14	Realistic Atomistic Structure of Amorphous Silicon from Machine-Learning-Driven Molecular Dynamics. Journal of Physical Chemistry Letters, 2018, 9, 2879-2885.	4.6	170
15	Metalâ€“Organic Nanosheets Formed via Defect-Mediated Transformation of a Hafnium Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 5397-5404.	13.7	224
16	Structural simplicity as a restraint on the structure of amorphous silicon. Physical Review B, 2017, 95, .	3.2	18
17	A Breathing Zirconium Metalâ€“Organic Framework with Reversible Loss of Crystallinity by Correlated Nanodomain Formation. Chemistry - A European Journal, 2016, 22, 3264-3267.	3.3	41
18	Design of crystal-like aperiodic solids with selective disorderâ€“phonon coupling. Nature Communications, 2016, 7, 10445.	12.8	48

#	Article	IF	Citations
19	Encoding complexity within supramolecular analogues of frustrated magnets. Nature Chemistry, 2016, 8, 442-447.	13.6	26
20	Defect-dependent colossal negative thermal expansion in UiO-66(Hf) metalâ€“organic framework. Physical Chemistry Chemical Physics, 2015, 17, 11586-11592.	2.8	127
21	Flexibility transition and guest-driven reconstruction in a ferroelastic metalâ€“organic framework. CrystEngComm, 2015, 17, 361-369.	2.6	24
22	Negative area compressibility in silver(<scp>i</scp>) tricyanomethanide. Chemical Communications, 2014, 50, 5264-5266.	4.1	73
23	Correlated defect nanoregions in a metalâ€“organic framework. Nature Communications, 2014, 5, 4176.	12.8	550
24	Mineral neogenesis as an inspiration for mild, solvent-free synthesis of bulk microporous metalâ€“organic frameworks from metal (Zn, Co) oxides. Green Chemistry, 2013, 15, 2121.	9.0	133
25	Quantification of local geometry and local symmetry in models of disordered materials. Physica Status Solidi (B): Basic Research, 2013, 250, 949-956.	1.5	7
26	Nanostructure determination from the pair distribution function: a parametric study of the INVERT approach. Journal of Physics Condensed Matter, 2013, 25, 454218.	1.8	4
27	Inside Back Cover: Quantification of local geometry and local symmetry in models of disordered materials (Phys. Status Solidi B 5/2013). Physica Status Solidi (B): Basic Research, 2013, 250, .	1.5	0
28	PASCal: a principal axis strain calculator for thermal expansion and compressibility determination. Journal of Applied Crystallography, 2012, 45, 1321-1329.	4.5	433
29	Accelerated aging: a low energy, solvent-free alternative to solvothermal and mechanochemical synthesis of metalâ€“organic materials. Chemical Science, 2012, 3, 2495-2500.	7.4	181
30	Structure Determination of Disordered Materials from Diffraction Data. Physical Review Letters, 2010, 104, 125501.	7.8	97