

Matthew J Cliffe

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

2,598
citations

394421

19
h-index

477307

29
g-index

37
all docs

37
docs citations

37
times ranked

4086
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlated defect nanoregions in a metal-organic framework. <i>Nature Communications</i> , 2014, 5, 4176.	12.8	550
2	<i>PASCAL</i>: a principal axis strain calculator for thermal expansion and compressibility determination. <i>Journal of Applied Crystallography</i> , 2012, 45, 1321-1329.	4.5	433
3	Metal-Organic Nanosheets Formed via Defect-Mediated Transformation of a Hafnium Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017, 139, 5397-5404.	13.7	224
4	Accelerated aging: a low energy, solvent-free alternative to solvothermal and mechanochemical synthesis of metal-organic materials. <i>Chemical Science</i> , 2012, 3, 2495-2500.	7.4	181
5	Realistic Atomistic Structure of Amorphous Silicon from Machine-Learning-Driven Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2879-2885.	4.6	170
6	Ionic and Electronic Conduction in TiNb_2O_7 . <i>Journal of the American Chemical Society</i> , 2019, 141, 16706-16725.	13.7	134
7	Mineral neogenesis as an inspiration for mild, solvent-free synthesis of bulk microporous metal-organic frameworks from metal (Zn, Co) oxides. <i>Green Chemistry</i> , 2013, 15, 2121.	9.0	133
8	Defect-dependent colossal negative thermal expansion in UiO-66(Hf) metal-organic framework. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11586-11592.	2.8	127
9	Structure Determination of Disordered Materials from Diffraction Data. <i>Physical Review Letters</i> , 2010, 104, 125501.	7.8	97
10	Negative area compressibility in silver(<i>tricyanomethanide</i>). <i>Chemical Communications</i> , 2014, 50, 5264-5266.	4.1	73
11	Direct Imaging of Correlated Defect Nanodomains in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 13081-13089.	13.7	65
12	Short-range ordering in a battery electrode, the $\tilde{\text{cation-disordered}}$ ™ rocksalt $\text{Li}_{1.25}\text{Nb}_{0.25}\text{Mn}_{0.5}\text{O}_2$. <i>Chemical Communications</i> , 2019, 55, 9027-9030.	4.1	58
13	Engineering new defective phases of UiO family metal-organic frameworks with water. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7459-7469.	10.3	58
14	Design of crystal-like aperiodic solids with selective disorder-phonon coupling. <i>Nature Communications</i> , 2016, 7, 10445.	12.8	48
15	A Breathing Zirconium Metal-Organic Framework with Reversible Loss of Crystallinity by Correlated Nanodomain Formation. <i>Chemistry - A European Journal</i> , 2016, 22, 3264-3267.	3.3	41
16	Strongly coloured thiocyanate frameworks with perovskite-analogue structures. <i>Chemical Science</i> , 2019, 10, 793-801.	7.4	30
17	Encoding complexity within supramolecular analogues of frustrated magnets. <i>Nature Chemistry</i> , 2016, 8, 442-447.	13.6	26
18	Flexibility transition and guest-driven reconstruction in a ferroelastic metal-organic framework. <i>CrystEngComm</i> , 2015, 17, 361-369.	2.6	24

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19	Exploring the Role of Cluster Formation in UiO Family Hf Metal-Organic Frameworks with <i>in Situ</i> X-ray Pair Distribution Function Analysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 19668-19683.	13.7	24
20	Low-dimensional quantum magnetism in $\text{Cu}_3\text{M}_2\text{O}_{10}$: A molecular framework material. <i>Physical Review B</i> , 2018, 97, .	3.2	10
21	Structural simplicity as a restraint on the structure of amorphous silicon. <i>Physical Review B</i> , 2017, 95, .	3.2	18
22	Strengthening the Magnetic Interactions in Pseudobinary First-Row Transition Metal Thiocyanates, $\text{M}(\text{NCS})_2$. <i>Inorganic Chemistry</i> , 2020, 59, 11627-11639.	4.0	14
23	Ground and Excited States of Bis-Methoxybenzyl-Substituted Diketopyrrolopyrroles: Spectroscopic and Electrochemical Studies. <i>ChemPlusChem</i> , 2019, 84, 1413-1422.	2.8	10
24	The structures of ordered defects in thiocyanate analogues of Prussian Blue. <i>Chemical Science</i> , 2020, 11, 4430-4438.	7.4	10
25	SquidLab – A user-friendly program for background subtraction and fitting of magnetization data. <i>Review of Scientific Instruments</i> , 2020, 91, 023901.	1.3	9
26	Quantification of local geometry and local symmetry in models of disordered materials. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 949-956.	1.5	7
27	A high-throughput, solvent free method for dispersing metal atoms directly onto supports. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26676-26679.	10.3	6
28	Controlling multiple orderings in metal thiocyanate molecular perovskites $\text{A}_6\text{Ni}[\text{Bi}(\text{SCN})_6]$. <i>Chemical Science</i> , 2021, 12, 3516-3525.	7.4	5
29	Nanostructure determination from the pair distribution function: a parametric study of the INVERT approach. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 454218.	1.8	4
30	Inside Back Cover: Quantification of local geometry and local symmetry in models of disordered materials (<i>Phys. Status Solidi B</i> 5/2013). <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, .	1.5	0