Michael T Wharmby

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3240110/publications.pdf

Version: 2024-02-01

49 papers	4,283 citations	218592 26 h-index	206029 48 g-index
52 all docs	52 docs citations	52 times ranked	6378 citing authors

#	Article	IF	Citations
1	Crystallisation of phosphates revisited: aÂmulti-step formation process for SrHPO₄. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2022, 77, 263-272.	0.3	3
2	Pt accelerated coarsening of A15 precipitates in Cr-Si alloys. Materials and Design, 2022, 218, 110655.	3.3	0
3	Frustrated flexibility in metal-organic frameworks. Nature Communications, 2021, 12, 4097.	5.8	55
4	Topological Transformation of Mgâ€Containing Layered Double Hydroxide Nanosheets for Efficient Photodriven CH₄ Coupling. Chemistry - A European Journal, 2021, 27, 13211-13220.	1.7	14
5	Design and Precursor-based Solid-State Synthesis of Mixed-Linker Zr-MIL-140A. Inorganic Chemistry, 2020, 59, 15250-15261.	1.9	4
6	Influence of Thermal and Mechanical Stimuli on the Behavior of Al-CAU-13 Metalâ€“Organic Framework. Nanomaterials, 2020, 10, 1698.	1.9	3
7	Exploring the origins of crystallisation kinetics in hierarchical materials using in situ X-ray diffraction and pair distribution function analysis. Physical Chemistry Chemical Physics, 2020, 22, 18860-18867.	1.3	12
8	Conversion of magnesium waste into a complex magnesium hydride system: Mg(NH₂)₂â€“LiH. Sustainable Energy and Fuels, 2020, 4, 1915-1923.	2.5	16
9	Anharmonicity and scissoring modes in the negative thermal expansion materials <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>ScF</mml:mi><mml:mn>3</mml:mn></mml:msub></mm and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CaZrF</mml:mi><mml:mn>6</mml:mn></mml:msub> Physical Review B, 2020, 101, .	1.1	17
10	Generating large starting configurations for molecular Reverse Monte Carlo modelling of an unique non-linear optical amorphous solid. Journal of Physics Communications, 2020, 4, 035004.	0.5	9
11	A Titanium(IV)â€Based Metalâ€“Organic Framework Featuring Defectâ€Rich Tiâ€O Sheets as an Oxidative Desulfurization Catalyst. Angewandte Chemie - International Edition, 2019, 58, 9160-9165.	7.2	99
12	Tracking Structural Phase Transitions in Leadâ€Halide Perovskites by Means of Thermal Expansion. Advanced Materials, 2019, 31, e1900521.	11.1	88
13	Pressure promoted low-temperature melting of metalâ€“organic frameworks. Nature Materials, 2019, 18, 370-376.	13.3	134
14	Layered Zn₂[Co(CN)₆](CH₃COO) double metal cyanide: a two-dimensional DMC phase with excellent catalytic performance. Chemical Science, 2019, 10, 4868-4875.	3.7	24
15	3D Printing of a Thermoâ€and Solvatochromic Composite Material Based on a Cu(II)â€“Thymine Coordination Polymer with Moisture Sensing Capabilities. Advanced Functional Materials, 2019, 29, 1808424.	7.8	35
16	Quasi-hydrostatic equation of state of silicon up to 1 megabar at ambient temperature. Scientific Reports, 2019, 9, 15537.	1.6	14
17	Pore closure in zeolitic imidazolate frameworks under mechanical pressure. Chemical Science, 2018, 9, 1654-1660.	3.7	63
18	Laser-heating system for high-pressure X-ray diffraction at the Extreme Conditions beamline I15 at Diamond Light Source. Journal of Synchrotron Radiation, 2018, 25, 1860-1868.	1.0	21

#	Article	IF	Citations
19	The Influence of Isomerism on Crystallization in Aluminum Pyridinedicarboxylate Coordination Compounds. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 1816-1825.	0.6	5
20	In situ Monitoring of the Formation of [Bis(acetylacetonato)manganese(II)] Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 1902-1907.	0.6	7
21	Air-stable metal hydride-polymer composites of Mg(NH2)2â€“LiH and TPXâ„¢. Materials Today Energy, 2018, 10, 98-107.	2.5	22
22	Rietveld Refinement of MILâ€160 and Its Structural Flexibility Upon H₂O and N₂ Adsorption. European Journal of Inorganic Chemistry, 2018, 2018, 3626-3632.	1.0	58
23	Reâ€Determination of the Crystal Structure of MILâ€91(Al). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 137-140.	0.6	12
24	Processing two-dimensional X-ray diffraction and small-angle scattering data in DAWN 2. Journal of Applied Crystallography, 2017, 50, 959-966.	1.9	356
25	The automated XPDF beamline at Diamond Light Source. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C69-C69.	0.0	1
26	A Breathing Zirconium Metalâ€“Organic Framework with Reversible Loss of Crystallinity by Correlated Nanodomain Formation. Chemistry - A European Journal, 2016, 22, 3264-3267.	1.7	41
27	Role of crystal size on swing-effect and adsorption induced structure transition of ZIF-8. Dalton Transactions, 2016, 45, 6893-6900.	1.6	66
28	Synthesis and structure of Zr(<scp>iv</scp>)- and Ce(<scp>iv</scp>)-based CAU-24 with 1,2,4,5-tetrakis(4-carboxyphenyl)benzene. Dalton Transactions, 2016, 45, 18822-18826.	1.6	76
29	Mixed-linker solid solutions of functionalized pillared-layer MOFs â€“ adjusting structural flexibility, gas sorption, and thermal responsiveness. Dalton Transactions, 2016, 45, 4230-4241.	1.6	40
30	Structural flexibility in prototypical zeolitic imidazolate frameworks. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s85-s86.	0.0	1
31	Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation. Advanced Materials, 2015, 27, 4775-4780.	11.1	253
32	Data Analysis WorkbeNch(DAWN). Journal of Synchrotron Radiation, 2015, 22, 853-858.	1.0	345
33	Cerium-based metal organic frameworks with UiO-66 architecture: synthesis, properties and redox catalytic activity. Chemical Communications, 2015, 51, 12578-12581.	2.2	377
34	Extreme Flexibility in a Zeolitic Imidazolate Framework: Porous to Dense Phase Transition in Desolvated ZIFâ€4. Angewandte Chemie - International Edition, 2015, 54, 6447-6451.	7.2	87
35	Flow-synthesis of carboxylate and phosphonate based metalâ€“organic frameworks under non-solvothermal reaction conditions. Dalton Transactions, 2015, 44, 11235-11240.	1.6	51
36	Metal Organic Framework: Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation (Adv. Mater. 32/2015). Advanced Materials, 2015, 27, 4803-4803.	11.1	10

#	Article	IF	Citations
37	Mechanical Properties of a Calcium Dietary Supplement, Calcium Fumarate Trihydrate. Inorganic Chemistry, 2015, 54, 11186-11192.	1.9	14
38	Phase Transitions in Zeolitic Imidazolate Framework 7: The Importance of Framework Flexibility and Guest-Induced Instability. Chemistry of Materials, 2014, 26, 1767-1769.	3.2	150
39	Mechanical Tunability via Hydrogen Bonding in Metalâ€“Organic Frameworks with the Perovskite Architecture. Journal of the American Chemical Society, 2014, 136, 7801-7804.	6.6	160
40	Group 13 Metal Carboxylates: Using Molecular Clusters As Hybrid Building Units in a MIL-53 Type Framework. Crystal Growth and Design, 2014, 14, 5310-5317.	1.4	13
41	Flexibility and swing effect on the adsorption of energy-related gases on ZIF-8: combined experimental and simulation study. Dalton Transactions, 2012, 41, 10752.	1.6	176
42	Synthesis and crystal chemistry of the STA-12 family of metal N,Nâ€²-piperazinebis(methylenephosphonate)s and applications of STA-12(Ni) in the separation of gases. Microporous and Mesoporous Materials, 2012, 157, 3-17.	2.2	49
43	Aerobic Epoxidation of Olefins Catalyzed by the Cobaltâ€Based Metalâ€“Organic Framework STAâ€12(Co). Chemistry - A European Journal, 2012, 18, 887-898.	1.7	110
44	Extending the Pore Size of Crystalline Metal Phosphonates toward the Mesoporous Regime by Isoreticular Synthesis. Journal of the American Chemical Society, 2011, 133, 1266-1269.	6.6	128
45	Opening the Gate: Framework Flexibility in ZIF-8 Explored by Experiments and Simulations. Journal of the American Chemical Society, 2011, 133, 8900-8902.	6.6	947
46	Chapter 10. Open Framework and Microporous Metal Phosphonate MOFs with Piperazine-based Bisphosphonate Linkers. , 2011, , 317-343.		1
47	Yttrium bisphosphonate STA-13: A racemic phosphonate metal organic framework with permanent microporosity. Dalton Transactions, 2010, 39, 6389.	1.6	21
48	The adsorption and stability of sulfur containing amino acids on Cu{531}. Surface Science, 2009, 603, 1253-1261.	0.8	44
49	Lanthanide N,Nâ€²-piperazine-bis(methylenephosphonates) (Ln=La, Ce, Nd) that display flexible frameworks, reversible hydration and cation exchange. Journal of Solid State Chemistry, 2009, 182, 2769-2778.	1.4	27