

David A Keen

List of Publications by Year in descending order

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90
papers

7,472
citations

57758

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53230

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docs citations

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times ranked

7268
citing authors

#	ARTICLE	IF	CITATIONS
1	Orientational order and phase transitions in deuterated methane: a neutron total scattering and reverse Monte Carlo study. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 015401.	1.8	4
2	Principles of melting in hybrid organic–inorganic perovskite and polymorphic ABX ₃ structures. <i>Chemical Science</i> , 2022, 13, 2033-2042.	7.4	9
3	Post-Synthetic Modification of a Metal–Organic Framework Glass. <i>Chemistry of Materials</i> , 2022, 34, 2187-2196.	6.7	27
4	Materials Formed by Combining Inorganic Glasses and Metal–Organic Frameworks. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	7
5	Multivariate analysis of disorder in metal–organic frameworks. <i>Nature Communications</i> , 2022, 13, 2173.	12.8	10
6	Orientational disorder in sulfur hexafluoride: a neutron total scattering and reverse Monte Carlo study. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 295401.	1.8	2
7	Glassy behaviour of mechanically amorphised ZIF-62 isomorphs. <i>Chemical Communications</i> , 2021, 57, 9272-9275.	4.1	15
8	Room temperature crystallography of human acetylcholinesterase bound to a substrate analogue 4K-TMA: Towards a neutron structure. <i>Current Research in Structural Biology</i> , 2021, 3, 206-215.	2.2	6
9	Spin-ice physics in cadmium cyanide. <i>Nature Communications</i> , 2021, 12, 2272.	12.8	7
10	Mixed hierarchical local structure in a disordered metal–organic framework. <i>Nature Communications</i> , 2021, 12, 2062.	12.8	44
11	Advantages of a curved image plate for rapid laboratory-based x-ray total scattering measurements: Application to pair distribution function analysis. <i>Review of Scientific Instruments</i> , 2021, 92, 043107.	1.3	4
12	Melting of hybrid organic–inorganic perovskites. <i>Nature Chemistry</i> , 2021, 13, 778-785.	13.6	65
13	Ionic liquid facilitated melting of the metal-organic framework ZIF-8. <i>Nature Communications</i> , 2021, 12, 5703.	12.8	74
14	Stepwise collapse of a giant pore metal–organic framework. <i>Dalton Transactions</i> , 2021, 50, 5011-5022.	3.3	23
15	Soft-mode anisotropy in the negative thermal expansion material ReO_3 . <i>Physical Review B</i> , 2021, 104, .		
16	Metal-organic framework and inorganic glass composites. <i>Nature Communications</i> , 2020, 11, 5800.	12.8	35
17	Total scattering and the pair distribution function in crystallography. <i>Crystallography Reviews</i> , 2020, 26, 143-201.	1.5	39
18	Quantitative understanding of negative thermal expansion in scandium trifluoride from neutron total scattering measurements. <i>Physical Review B</i> , 2020, 102, .	3.2	20

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19	A new route to porous metal-organic framework crystal-glass composites. <i>Chemical Science</i> , 2020, 11, 9910-9918.	7.4	21
20	Investigating the melting behaviour of polymorphic zeolitic imidazolate frameworks. <i>CrystEngComm</i> , 2020, 22, 3627-3637.	2.6	37
21	Unusual Breathing Behavior of Optically Excited Barium Titanate Nanocrystals. <i>Crystals</i> , 2020, 10, 365.	2.2	1
22	Tuning the Morphological Appearance of Iron(III) Fumarate: Impact on Material Characteristics and Biocompatibility. <i>Chemistry of Materials</i> , 2020, 32, 2253-2263.	6.7	19
23	A quantum liquid of magnetic octupoles on the pyrochlore lattice. <i>Nature Physics</i> , 2020, 16, 546-552.	16.7	54
24	Neutron scattering study of the orientational disorder in potassium cyanide. <i>Journal of Physics Communications</i> , 2020, 4, 023001.	1.2	8
25	Halogenated Metal-Organic Framework Glasses and Liquids. <i>Journal of the American Chemical Society</i> , 2020, 142, 3880-3890.	13.7	83
26	Synthesis and Properties of a Compositional Series of MIL-53(Al) Metal-Organic Framework Crystal-Glass Composites. <i>Journal of the American Chemical Society</i> , 2019, 141, 15641-15648.	13.7	65
27	Structural study of bismuth ferrite BiFeO_3 by neutron total scattering and the reverse Monte Carlo method. <i>Physical Review B</i> , 2019, 100, .		
28	Metal-organic framework crystal-glass composites. <i>Nature Communications</i> , 2019, 10, 2580.	12.8	97
29	Structural evolution in a melt-quenched zeolitic imidazolate framework glass during heat-treatment. <i>Chemical Communications</i> , 2019, 55, 2521-2524.	4.1	21
30	Flux melting of metal-organic frameworks. <i>Chemical Science</i> , 2019, 10, 3592-3601.	7.4	67
31	Structural investigations of amorphous metal-organic frameworks formed via different routes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7857-7861.	2.8	22
32	Magnetic structure of paramagnetic MnO. <i>Physical Review B</i> , 2018, 97, .	3.2	16
33	Dimensional crossover of correlated anion disorder in oxynitride perovskites. <i>Chemical Communications</i> , 2018, 54, 5245-5247.	4.1	12
34	Neutron and X-ray total scattering study of hydrogen disorder in fully hydrated hydrogrossular, $\text{Ca}_3\text{Al}_2(\text{O}_4\text{H}_4)_3$. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 333-342.	0.8	5
35	Metal-organic framework glasses with permanent accessible porosity. <i>Nature Communications</i> , 2018, 9, 5042.	12.8	147
36	Stochastic Polarization Instability in PbTiO_3 . <i>Physical Review Letters</i> , 2018, 121, 137602.	7.8	11

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37	Thermodynamic features and enthalpy relaxation in a metal-organic framework glass. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18291-18296.	2.8	24
38	Liquid phase blending of metal-organic frameworks. <i>Nature Communications</i> , 2018, 9, 2135.	12.8	69
39	Local-scale structures across the morphotropic phase boundary in $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$. <i>IUCr</i> , 2018, 5, 73-81.	2.2	24
40	Room Temperature Neutron Crystallography of Drug Resistant HIV-1 Protease Uncovers Limitations of X-ray Structural Analysis at 100 K. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 2018-2025.	6.4	25
41	Gel-based morphological design of zirconium metal-organic frameworks. <i>Chemical Science</i> , 2017, 8, 3939-3948.	7.4	177
42	Liquid metal-organic frameworks. <i>Nature Materials</i> , 2017, 16, 1149-1154.	27.5	326
43	Direct visualization of critical hydrogen atoms in a pyridoxal 5-phosphate enzyme. <i>Nature Communications</i> , 2017, 8, 955.	12.8	55
44	Orbital Dimer Model for the Spin-Glass State in Y_2O_7 . <i>Physical Review Letters</i> , 2017, 118, 067201.	7.8	34
45	Local structure study of the orbital order/disorder transition in LaMnO_3 . <i>Physical Review B</i> , 2017, 95, .	7.7	12
46	Long-Range Electrostatics-Induced Two-Proton Transfer Captured by Neutron Crystallography in an Enzyme Catalytic Site. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4924-4927.	13.8	42
47	Emergence of Long-Range Order in BaTiO_3 . <i>Physical Review Letters</i> , 2016, 116, 207602.	13.8	11
48	Local structure of the metal-organic perovskite dimethylammonium manganese(<i>ii</i>) formate. <i>Dalton Transactions</i> , 2016, 45, 4380-4391.	3.3	44
49	Melt-Quenched Glasses of Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2016, 138, 3484-3492.	13.7	252
50	Connecting defects and amorphization in UiO-66 and MIL-140 metal-organic frameworks: a combined experimental and computational study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2192-2201.	2.8	85
51	A comparison of the amorphization of zeolitic imidazolate frameworks (ZIFs) and aluminosilicate zeolites by ball-milling. <i>Dalton Transactions</i> , 2016, 45, 4258-4268.	3.3	34
52	The crystallography of correlated disorder. <i>Nature</i> , 2015, 521, 303-309.	27.8	262
53	The missing boundary in the phase diagram of $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$. <i>Nature Communications</i> , 2014, 5, 5231.	12.8	234
54	Ball-Milling-Induced Amorphization of Zeolitic Imidazolate Frameworks (ZIFs) for the Irreversible Trapping of Iodine. <i>Chemistry - A European Journal</i> , 2013, 19, 7049-7055.	3.3	171

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55	Bifurcated Polarization Rotation in Bismuth-Based Piezoelectrics. <i>Advanced Functional Materials</i> , 2013, 23, 185-190.	14.9	150
56	Amorphization of the prototypical zeolitic imidazolate framework ZIF-8 by ball-milling. <i>Chemical Communications</i> , 2012, 48, 7805.	4.1	137
57	Facile Mechanochemistry of Amorphous Zeolitic Imidazolate Frameworks. <i>Journal of the American Chemical Society</i> , 2011, 133, 14546-14549.	13.7	184
58	Reversible pressure-induced amorphization of a zeolitic imidazolate framework (ZIF-4). <i>Chemical Communications</i> , 2011, 47, 7983.	4.1	192
59	Thermal Amorphization of Zeolitic Imidazolate Frameworks. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3067-3071.	13.8	146
60	Diffraction study of pressure-amorphized ZrW ₂ O ₈ . ZrW_2O_8	3.2	17
61	Structure and Properties of an Amorphous Metal-Organic Framework. <i>Physical Review Letters</i> , 2010, 104, 115503.	7.8	246
62	The hydrogen-bonding transition and isotope-dependent negative thermal expansion in H ₃ Co(CN) ₆ . <i>Journal of Physics Condensed Matter</i> , 2010, 22, 404202.	1.8	15
63	Colossal Positive and Negative Thermal Expansion in the Framework Material Ag ₃ [Co(CN) ₆]. <i>Science</i> , 2008, 319, 794-797.	12.6	575
64	Local structure in Ag ₃ [Co(CN) ₆]: colossal thermal expansion, rigid unit modes and argentophilic interactions. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 255225.	1.8	34
65	Structural Description of Pressure-Induced Amorphization in ZrW ₂ O ₈ . <i>Physical Review Letters</i> , 2007, 98, 225501.	7.8	65
66	Local structure in ZrW ₂ O ₈ from neutron total scattering. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 335215.	1.8	26
67	RMCPProfile: reverse Monte Carlo for polycrystalline materials. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 335218.	1.8	351
68	Magnetic Structure of MnO at 10 ÅK from Total Neutron Scattering Data. <i>Physical Review Letters</i> , 2006, 96, 047209.	7.8	74
69	Total scattering and reverse Monte Carlo study of the 105 K displacive phase transition in strontium titanate. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S111-S124.	1.8	38
70	Reverse Monte Carlo modelling of crystalline disorder. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S15-S22.	1.8	52
71	Negative Thermal Expansion in ZrW ₂ O ₈ : Mechanisms, Rigid Unit Modes, and Neutron Total Scattering. <i>Physical Review Letters</i> , 2005, 95, 255501.	7.8	164
72	Refinement of the Si-O-Si bond angle distribution in vitreous silica. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S67-S75.	1.8	56

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73	Neutron total scattering method: simultaneous determination of long-range and short-range order in disordered materials. <i>European Journal of Mineralogy</i> , 2002, 14, 331-348.	1.3	109
74	Disordering phenomena in superionic conductors. <i>Journal of Physics Condensed Matter</i> , 2002, 14, R819-R857.	1.8	112
75	Structural disorder and loss of piezoelectric properties in $\hat{\alpha}$ -quartz at high temperature. <i>Applied Physics Letters</i> , 2002, 81, 2968-2970.	3.3	54
76	Dynamic structural disorder in cristobalite: neutron total scattering measurement and reverse Monte Carlo modelling. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 403-423.	1.8	71
77	A comparison of various commonly used correlation functions for describing total scattering. <i>Journal of Applied Crystallography</i> , 2001, 34, 172-177.	4.5	541
78	Application of the reverse Monte Carlo method to crystalline materials. <i>Journal of Applied Crystallography</i> , 2001, 34, 630-638.	4.5	94
79	MCGRtof: Monte CarloG(r) with resolution corrections for time-of-flight neutron diffractometers. <i>Journal of Applied Crystallography</i> , 2001, 34, 780-782.	4.5	19
80	A detailed structural characterization of quartz on heating through the $\hat{\alpha}$ - $\hat{\beta}$ phase transition. <i>Mineralogical Magazine</i> , 2001, 65, 489-507.	1.4	132
81	Simultaneous analysis of changes in long-range and short-range structural order at the displacive phase transition in quartz. <i>Journal of Physics Condensed Matter</i> , 2000, 12, L723-L730.	1.8	51
82	Local structures of amorphous and crystalline phases of silica, SiO ₂ , by neutron total scattering. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 9263-9273.	1.8	78
83	Determination of structural disorder in superionic by neutron total scattering. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 8217-8234.	1.8	22
84	Refining disordered structural models using reverse monte carlo methods: Application to vitreous silica. <i>Phase Transitions</i> , 1997, 61, 109-124.	1.3	46
85	Direct measurement of the Si-O bond length and orientational disorder in the high-temperature phase of cristobalite. <i>Physics and Chemistry of Minerals</i> , 1997, 24, 311-317.	0.8	99
86	Spin configurations in an amorphous random-anisotropy magnet. <i>Physical Review B</i> , 1996, 54, 1036-1042.	3.2	11
87	Structural changes in silver bromide at the melting point. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 6703-6714.	1.8	59
88	Determination of disordered magnetic structures by RMC modelling of neutron diffraction data. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 7383-7394.	1.8	34
89	Structural modelling of glasses using reverse Monte Carlo simulation. <i>Nature</i> , 1990, 344, 423-425.	27.8	294
90	Structural disorder in AgBr on the approach to melting. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 2773-2786.	1.8	39