

Branton J Campbell

List of Publications by Year in descending order

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50
papers

2,103
citations

304743

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223800

46
g-index

53
all docs

53
docs citations

53
times ranked

2962
citing authors

#	ARTICLE	IF	CITATIONS
1	ISODISPLACE: a web-based tool for exploring structural distortions. <i>Journal of Applied Crystallography</i> , 2006, 39, 607-614.	4.5	837
2	Generation of (3 + d)-dimensional superspace groups for describing the symmetry of modulated crystalline structures. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, 45-55.	0.3	129
3	Charge ordering and phase competition in the layered perovskite $\text{LaSr}_2\text{Mn}_2\text{O}_7$. <i>Physical Review B</i> , 2000, 61, 15269-15276.	3.2	110
4	Microscopic annealing process and its impact on superconductivity in Tâ^2 -structure electron-doped copper oxides. <i>Nature Materials</i> , 2007, 6, 224-229.	27.5	97
5	Glass Transition in the Polaron Dynamics of Colossal Magnetoresistive Manganites. <i>Physical Review Letters</i> , 2002, 89, 036401.	7.8	85
6	Equivalence of superspace groups. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, 75-90.	0.3	67
7	Structure, thermal expansion and transport properties of $\text{BaCe}_{1-x}\text{Eu}_x\text{O}_3$ oxides. <i>Materials Chemistry and Physics</i> , 2004, 86, 150-155.	4.0	57
8	Phase Progression of Al_2O_3 Nanoparticles Synthesized in a Solvent-Deficient Environment. <i>Inorganic Chemistry</i> , 2013, 52, 4411-4423.	4.0	51
9	Structure of nanoscale polaron correlations in $\text{La}_{1.2}\text{Sr}_{1.8}\text{Mn}_2\text{O}_7$. <i>Physical Review B</i> , 2001, 65, .	3.2	46
10	Novel Synthesis and Structural Analysis of Ferrihydrite. <i>Inorganic Chemistry</i> , 2012, 51, 6421-6424.	4.0	46
11	An Exhaustive Symmetry Approach to Structure Determination: Phase Transitions in $\text{Bi}_2\text{Sn}_2\text{O}_7$. <i>Journal of the American Chemical Society</i> , 2016, 138, 8031-8042.	13.7	40
12	The synthesis of the new zeolite, ERS-7, and the determination of its structure by simulated annealing and synchrotron X-ray powder diffraction. <i>Chemical Communications</i> , 1998, , 1725-1726.	4.1	35
13	Tabulation of irreducible representations of the crystallographic space groups and their superspace extensions. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, 388-395.	0.3	35
14	Distinct insulating state below the Curie point in $\text{Pr}_{0.7}\text{Ba}_{0.3}\text{MnO}_3$. <i>Physical Review B</i> , 2002, 65, .	3.2	33
15	ISOSUBGROUP: an internet tool for generating isotropy subgroups of crystallographic space groups. <i>Journal of Applied Crystallography</i> , 2016, 49, 1849-1853.	4.5	29
16	The superstructure determination of displacive distortions via symmetry-mode analysis. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, 222-234.	0.3	28
17	An algebraic approach to cooperative rotations in networks of interconnected rigid units. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, 408-424.	0.1	26
18	Switchable Rashba anisotropy in layered hybrid organic-inorganic perovskite by hybrid improper ferroelectricity. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	26

#	ARTICLE	IF	CITATIONS
19	Crystal and magnetic structures of hexagonal YMnO_3 . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2013, 69, 534-540.	1.1	24
20	Revisiting the revised Ag-Pt phase diagram. Acta Materialia, 2017, 124, 325-332.	7.9	24
21	Polaronic orbital polarization in a layered colossal magnetoresistive manganite. Physical Review B, 2003, 67, .	3.2	23
22	La-Dopant Location in La-Doped Al_2O_3 Nanoparticles Synthesized Using a Novel One-Pot Process. Journal of Physical Chemistry C, 2015, 119, 25053-25062.	3.1	22
23	Supercolossal Uniaxial Negative Thermal Expansion in Chloranilic Acid Pyrazine, CA-Pyz. Chemistry of Materials, 2019, 31, 4514-4523.	6.7	22
24	Elucidation of zeolite microstructure by synchrotron X-ray diffuse scattering. Journal of Applied Crystallography, 2004, 37, 187-192.	4.5	20
25	The Determination of Brønsted Acid Sites in Zeolite ERS-7 by Neutron and X-ray Powder Diffraction. Journal of Physical Chemistry B, 2001, 105, 1947-1955.	2.6	19
26	Linear Framework Defects in Zeolite Mordenite. Journal of Physical Chemistry B, 2002, 106, 57-62.	2.6	16
27	$\text{Gd}_5\text{Si}_4\text{-xBix}$ Structures: Novel Slab Sequences Achieved by Turning off the Directionality of Nearest-Slab Interactions. Inorganic Chemistry, 2009, 48, 10364-10370.	4.0	15
28	Understanding the Behavior of the Above-Room-Temperature Molecular Ferroelectric 5,6-Dichloro-2-methylbenzimidazole Using Symmetry Adapted Distortion Mode Analysis. Journal of the American Chemical Society, 2018, 140, 13441-13448.	13.7	15
29	Cation-vacancy ordering in dehydrated $\text{Na}_6[\text{AlSiO}_4]_6$. Journal of Chemical Physics, 2000, 113, 10215-10225.	3.0	14
30	The cation-vacancy ordering transition in dehydrated Na_6 sodalite. Journal of Chemical Physics, 2000, 113, 10226-10239.	3.0	14
31	Order parameters for phase transitions to structures with one-dimensional incommensurate modulations. Acta Crystallographica Section A: Foundations and Advances, 2007, 63, 365-373.	0.3	12
32	High-pressure polymorphism in pyridine. IUCr, 2020, 7, 58-70.	2.2	12
33	A symmetry-mode description of rigid-body rotations in crystalline solids: a case study of $\text{Mg}(\text{H}_2\text{O})_6\text{RbBr}_3$. Journal of Applied Crystallography, 2014, 47, 532-538.	4.5	11
34	A general algorithm for generating isotropy subgroups in superspace. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, 4-13.	0.1	10
35	Introducing a unified magnetic space-group symbol. Acta Crystallographica Section A: Foundations and Advances, 2022, 78, 99-106.	0.1	9
36	Direct Access to the Order Parameter: Parameterized Symmetry Modes and Rigid Body Movements as a Function of Temperature. Materials Science Forum, 2010, 651, 79-95.	0.3	8

#	ARTICLE	IF	CITATIONS
37	Enhanced stability of charge and orbital order in $\text{La}_{0.78}\text{Sr}_{2.22}\text{Mn}_2\text{O}_7$. <i>Physical Review B</i> , 2004, 69, .	3.2	6
38	The flexible embedded-fiber neutron detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 586, 246-250.	1.6	6
39	Long-range two-dimensional superstructure in the superconducting electron-doped cuprate $\text{Pr}_{0.88}\text{LaCe}_{0.12}\text{CuO}_4$. <i>Physical Review B</i> , 2015, 92, .	3.2	5
40	Structural state and magnetic properties of multilayer-graphene/Fe composites. <i>Physics of Metals and Metallography</i> , 2016, 117, 143-150.	1.0	5
41	Revisiting the CuPt_3 prototype and the L13 structure. <i>Acta Materialia</i> , 2014, 73, 326-336.	7.9	4
42	Quantitative Local Atomic Displacements from Huang Scattering Normalized by Thermal Diffuse Scattering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 1130-1136.	2.2	3
43	Enumeration and tabulation of magnetic (3+ d)-dimensional superspace groups. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2022, 78, 364-370.	0.1	2
44	NMR study of ammonium magnesium langbeinite. <i>Physical Review B</i> , 1995, 51, 11315-11318.	3.2	1
45	The Structure of Jahn-Teller Polarons in the Colossal Magnetoresistive Manganites. <i>Fundamental Materials Research</i> , 2002, , 183-202.	0.1	1
46	Diffuse scattering in the layered perovskites. <i>Zeitschrift für Kristallographie</i> , 2005, 220, .	1.1	1
47	The <i>ISOTILT</i> software for discovering cooperative rigid-unit rotations in networks of interconnected rigid units. <i>Journal of Applied Crystallography</i> , 2021, 54, 1847-1856.	4.5	1
48	Theoretical and computational improvements to the algebraic method for discovering cooperative rigid-unit modes. <i>Journal of Applied Crystallography</i> , 2021, 54, .	4.5	1
49	Topotactic, pressure-driven, diffusion-less phase transition of layered CsCoO_2 to a stuffed cristobalite-type configuration. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 704-710.	1.1	0
50	Normally supportive sublattices of crystallographic space groups. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2020, 76, 7-23.	0.1	0