

# Branton J Campbell

## List of Publications by Year in descending order

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50  
papers

2,103  
citations

304743

22  
h-index

223800

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g-index

53  
all docs

53  
docs citations

53  
times ranked

2962  
citing authors

#	ARTICLE	IF	CITATIONS
1	Introducing a unified magnetic space-group symbol. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2022, 78, 99-106.	0.1	9
2	Enumeration and tabulation of magnetic (3+ <i>d</i> )-dimensional superspace groups. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2022, 78, 364-370.	0.1	2
3	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
4	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
5	Normally supportive sublattices of crystallographic space groups. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2020, 76, 7-23.	0.1	0
6	Switchable Rashba anisotropy in layered hybrid organic–inorganic perovskite by hybrid improper ferroelectricity. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	26
7	High-pressure polymorphism in pyridine. <i>IUCrJ</i> , 2020, 7, 58-70.	2.2	12
8	Topotactic, pressure-driven, diffusion-less phase transition of layered CsCoO <sub>2</sub> 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
9	Supercolossal Uniaxial Negative Thermal Expansion in Chloranilic Acid Pyrazine, CA-Pyz. <i>Chemistry of Materials</i> , 2019, 31, 4514-4523.	6.7	22
10	Understanding the Behavior of the Above-Room-Temperature Molecular Ferroelectric 5,6-Dichloro-2-methylbenzimidazole Using Symmetry Adapted Distortion Mode Analysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 13441-13448.	18.7	15
11	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
12	A general algorithm for generating isotropy subgroups in superspace. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, 4-13.	0.1	10
13	Revisiting the revised Ag-Pt phase diagram. <i>Acta Materialia</i> , 2017, 124, 325-332.	7.9	24
14	Structural state and magnetic properties of multilayer-graphene/Fe composites. <i>Physics of Metals and Metallography</i> , 2016, 117, 143-150.	1.0	5
15	<i>ISOSUBGROUP</i> : 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	An Exhaustive Symmetry Approach to Structure Determination: Phase Transitions in Bi <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> . <i>Journal of the American Chemical Society</i> , 2016, 138, 8031-8042.	18.7	40
17	Long-range two-dimensional superstructure in the superconducting electron-doped cuprate Pr <sub>0.88</sub> LaCe <sub>0.12</sub> CuO <sub>4</sub> . <i>Physical Review B</i> , 2015, 92, .	3.2	5
18	La-Dopant Location in La-Doped $\text{Al}_2\text{O}_3$ Nanoparticles Synthesized Using a Novel One-Pot Process. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25053-25062.	3.1	22

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19	Revisiting the CuPt <sub>3</sub> prototype and the L1 <sub>3</sub> structure. <i>Acta Materialia</i> , 2014, 73, 326-336.	7.9	4
20	A symmetry-mode description of rigid-body rotations in crystalline solids: a case study of Mg(H <sub>2</sub> O) <sub>6</sub> RbBr <sub>3</sub> . <i>Journal of Applied Crystallography</i> , 2014, 47, 532-538.	4.5	11
21	Equivalence of superspace groups. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, 75-90.	0.3	67
22	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
23	Phase Progression of $\hat{1}^3$ -Al <sub>2</sub> O <sub>3</sub> Nanoparticles Synthesized in a Solvent-Deficient Environment. <i>Inorganic Chemistry</i> , 2013, 52, 4411-4423.	4.0	51
24	Crystal and magnetic structures of hexagonal YMnO <sub>3</sub> . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2013, 69, 534-540.	1.1	24
25	Novel Synthesis and Structural Analysis of Ferrihydrite. <i>Inorganic Chemistry</i> , 2012, 51, 6421-6424.	4.0	46
26	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
27	Generation of (3 + <i>d</i> )-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
28	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
29	Direct Access to the Order Parameter: Parameterized Symmetry Modes and Rigid Body Movements as a Function of Temperature. <i>Materials Science Forum</i> , 2010, 651, 79-95.	0.3	8
30	Gd <sub>5</sub> Si <sub>4-x</sub> Bix Structures: Novel Slab Sequences Achieved by Turning off the Directionality of Nearest-Slab Interactions. <i>Inorganic Chemistry</i> , 2009, 48, 10364-10370.	4.0	15
31	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
32	Order parameters for phase transitions to structures with one-dimensional incommensurate modulations. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2007, 63, 365-373.	0.3	12
33	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
34	ISODISPLACE: a web-based tool for exploring structural distortions. <i>Journal of Applied Crystallography</i> , 2006, 39, 607-614.	4.5	837
35	Diffuse scattering in the layered perovskites. <i>Zeitschrift für Kristallographie</i> , 2005, 220, .	1.1	1
36	Enhanced stability of charge and orbital order in La <sub>0.78</sub> Sr <sub>0.22</sub> Mn <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , 2004, 69, .	3.2	6

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37	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
38	Elucidation of zeolite microstructure by synchrotron X-ray diffuse scattering. <i>Journal of Applied Crystallography</i> , 2004, 37, 187-192.	4.5	20
39	Polaronic orbital polarization in a layered colossal magnetoresistive manganite. <i>Physical Review B</i> , 2003, 67, .	3.2	23
40	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
41	Linear Framework Defects in Zeolite Mordenite. <i>Journal of Physical Chemistry B</i> , 2002, 106, 57-62.	2.6	16
42	The Structure of Jahn-Teller Polarons in the Colossal Magnetoresistive Manganites. <i>Fundamental Materials Research</i> , 2002, , 183-202.	0.1	1
43	Glass Transition in the Polaron Dynamics of Colossal Magnetoresistive Manganites. <i>Physical Review Letters</i> , 2002, 89, 036401.	7.8	85
44	The Determination of Brønsted Acid Sites in Zeolite ERS-7 by Neutron and X-ray Powder Diffraction. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1947-1955.	2.6	19
45	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
46	Cation-vacancy ordering in dehydrated $\text{Na}_6[\text{AlSiO}_4]_6$ . <i>Journal of Chemical Physics</i> , 2000, 113, 10215-10225.	3.0	14
47	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
48	The cation-vacancy ordering transition in dehydrated $\text{Na}_6$ sodalite. <i>Journal of Chemical Physics</i> , 2000, 113, 10226-10239.	3.0	14
49	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
50	NMR study of ammonium magnesium langbeinite. <i>Physical Review B</i> , 1995, 51, 11315-11318.	3.2	1