

# Philip Lightfoot

## List of Publications by Citations

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#	Paper	IF	Citations
270	Ferroelectric-paraelectric transition in BiFeO <sub>3</sub> : crystal structure of the orthorhombic beta phase. <i>Physical Review Letters</i> , <b>2009</b> , 102, 027602	7.4	261
269	Crystal Structure Determination from Powder Diffraction Data by Monte Carlo Methods. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 3543-3547	16.4	261
268	Pressure-induced charge transfer and dT <sub>c</sub> /dP in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>1990</b> , 171, 93-102	1.3	230
267	Cation disorder in ferroelectric Aurivillius phases of the type Bi <sub>2</sub> ANb <sub>2</sub> O <sub>9</sub> (A=Ba, Sr, Ca). <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 1609-1613		200
266	Solid-state transformations of zinc 1,4-benzenedicarboxylates mediated by hydrogen-bond-forming molecules. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 5168-75	4.8	189
265	A Variable-Temperature Powder Neutron Diffraction Study of Ferroelectric Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> . <i>Chemistry of Materials</i> , <b>1999</b> , 11, 3359-3364	9.6	179
264	Structural Behavior of the Four-Layer Aurivillius-Phase Ferroelectrics SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> and Bi <sub>5</sub> Ti <sub>3</sub> FeO <sub>15</sub> . <i>Journal of Solid State Chemistry</i> , <b>2002</b> , 164, 280-291	3.3	177
263	Understanding ferroelectricity in layered perovskites: new ideas and insights from theory and experiments. <i>Dalton Transactions</i> , <b>2015</b> , 44, 10543-58	4.3	159
262	High-temperature phase transitions of hexagonal YMnO <sub>3</sub> . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	158
261	The widespread occurrence of negative thermal expansion in zeolites. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 212-216		155
260	Synthesis, Structure and Properties of Related Microporous N,N'-Piperazinebismethylenephosphonates of Aluminum and Titanium. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 1451-1457	9.6	154
259	The structural consequences of charge disproportionation in mixed-valence iron oxides. I. The crystal structure of Sr <sub>2</sub> LaFe <sub>3</sub> O <sub>8.94</sub> at room temperature and 50 K. <i>Journal of Solid State Chemistry</i> , <b>1990</b> , 84, 271-279	3.3	151
258	Orientation dependence of ferroelectric properties of pulsed-laser-ablated Bi <sub>4-x</sub> N <sub>x</sub> Ti <sub>3</sub> O <sub>12</sub> films. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2414-2416	3.4	143
257	The polar phase of NaNbO <sub>3</sub> : a combined study by powder diffraction, solid-state NMR, and first-principles calculations. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 8732-46	16.4	137
256	Unusual high-temperature structural behaviour in ferroelectric Bi <sub>2</sub> WO <sub>6</sub> . <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 1493-9	4.8	129
255	An ionothermally prepared S <sup>2-</sup> 1/2 vanadium oxyfluoride kagome lattice. <i>Nature Chemistry</i> , <b>2011</b> , 3, 801-6	6.7	122
254	The first route to large pore metal phosphonates. <i>Chemical Communications</i> , <b>2006</b> , 3305-7	5.8	118

253	Structural changes of superconducting YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> under high pressure. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 173, 185-194	1.3	116
252	Negative Thermal Expansion in the Siliceous Zeolites Chabazite and ITQ-4: A Neutron Powder Diffraction Study. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 2508-2514	9.6	114
251	Structure of LiN(CF <sub>3</sub> SO <sub>2</sub> ) <sub>2</sub> , a novel salt for electrochemistry. <i>Journal of Materials Chemistry</i> , <b>1994</b> , 4, 1579		104
250	SSZ-23: An Odd Zeolite with Pore Openings of Seven and Nine Tetrahedral Atoms. <i>Angewandte Chemie - International Edition</i> , <b>1998</b> , 37, 2122-2126	16.4	100
249	Ferroelectric phase transitions in SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> and Bi <sub>5</sub> Ti <sub>3</sub> FeO <sub>15</sub> : A powder neutron diffraction study. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	100
248	Negative Thermal Expansion in Y <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> . <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 149, 92-98	3.3	100
247	Gapless spin liquid ground state in the S = 1/2 vanadium oxyfluoride kagome antiferromagnet [NH <sub>4</sub> ] <sub>2</sub> [C <sub>7</sub> H <sub>14</sub> N][V <sub>7</sub> O <sub>6</sub> F <sub>18</sub> ]. <i>Physical Review Letters</i> , <b>2013</b> , 110, 207208	7.4	92
246	The $\Gamma_0$ - $\Gamma_1$ Transition in BiFeO <sub>3</sub> : A Powder Neutron Diffraction Study. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 2116-2123	15.6	81
245	Synthesis and Structure of ITQ-3, the First Pure Silica Polymorph with a Two-Dimensional System of Straight Eight-Ring Channels. <i>Angewandte Chemie International Edition in English</i> , <b>1997</b> , 36, 2659-2661		81
244	Cation Disorder in Three-Layer Aurivillius Phases: Structural Studies of Bi <sub>2-x</sub> Sr <sub>2+x</sub> Ti <sub>1-x</sub> Nb <sub>2+x</sub> O <sub>12</sub> (0. <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 153, 66-73	3.3	81
243	Imposition of Polarity on a Centrosymmetric Zeolite Host: The Effect of Fluoride Ions on Template Ordering in Zeolite IFR. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 7128-7129	16.4	79
242	Layered Intergrowth Phases Bi <sub>4</sub> MO <sub>8</sub> X (X=Cl, M=Ta and X=Br, M=Ta or Nb): Structural and Electrophysical Characterization. <i>Journal of Solid State Chemistry</i> , <b>2002</b> , 166, 148-157	3.3	76
241	The location and ordering of fluoride ions in pure silica zeolites with framework types IFR and STF; implications for the mechanism of zeolite synthesis in fluoride media. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 8797-805	16.4	76
240	Phase separation in Nd <sub>2-x</sub> Te <sub>x</sub> O <sub>4</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>1990</b> , 168, 627-636	1.3	74
239	An X-ray diffraction and MAS NMR study of the thermal expansion properties of calcined siliceous ferrierite. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 4342-9	16.4	66
238	Structure of the poly(ethylene oxide)lithium perchlorate complex PEO <sub>3</sub> -LiClO <sub>4</sub> from powder X-ray diffraction data. <i>Journal of Materials Chemistry</i> , <b>1992</b> , 2, 379-381		65
237	The crystal and magnetic structures of Ba <sub>3</sub> NiRu <sub>2</sub> O <sub>9</sub> , Ba <sub>3</sub> CoRu <sub>2</sub> O <sub>9</sub> , and Ba <sub>3</sub> ZnRu <sub>2</sub> O <sub>9</sub> . <i>Journal of Solid State Chemistry</i> , <b>1990</b> , 89, 174-183	3.3	65
236	Variable-temperature microcrystal X-ray diffraction studies of negative thermal expansion in the pure silica zeolite IFR. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 5453-9	16.4	63

- 235 Two closely related lanthanum phosphonate frameworks formed by anion-directed linking of inorganic chains. *Inorganic Chemistry*, **2005**, 44, 1736-9 5.1 62
- 234 New twists on the perovskite theme: crystal structures of the elusive phases R and S of NaNbO<sub>3</sub>. *Inorganic Chemistry*, **2012**, 51, 6876-89 5.1 57
- 233 Ferroelectric Properties and Crystal Structure of the Layered Intergrowth Phase Bi<sub>3</sub>Pb<sub>2</sub>Nb<sub>2</sub>O<sub>11</sub>Cl. *Chemistry of Materials*, **2001**, 13, 4731-4737 9.6 57
- 232 Structural chemistry of organically-templated metal fluorides. *Dalton Transactions*, **2010**, 39, 5983-93 4.3 56
- 231 Strong negative thermal expansion in the siliceous zeolites ITQ-1, ITQ-3 and SSZ-23. *Journal of Materials Chemistry*, **1999**, 9, 349-351 56
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- 229 An examination of the structures of iodobenzene (PhIO) and the related imido compound, PhINSO<sub>2</sub>-4-Me-C<sub>6</sub>H<sub>4</sub>, by X-ray powder diffraction and EXAFS (extended X-ray absorption fine structure) spectroscopy. *Journal of the Chemical Society Chemical Communications*, **1994**, 2367-2368 55
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- 223 A reinvestigation of quaternary layered bismuth oxyhalides of the Sillb X1 type. *Journal of Solid State Chemistry*, **2003**, 175, 316-321 3.3 49
- 222 Mixed Inorganic/Organic Anion Frameworks: Synthesis and Crystal Structure of Fe<sub>4</sub>(PO<sub>4</sub>)<sub>2</sub>(C<sub>2</sub>O<sub>4</sub>)(H<sub>2</sub>O)<sub>2</sub>. *Journal of Solid State Chemistry*, **1999**, 143, 58-61 3.3 49
- 221 Microporous Magnesium Aluminophosphate STA-1: Synthesis with a Rationally Designed Template and Structure Elucidation by Microcrystal Diffraction. *Angewandte Chemie International Edition in English*, **1997**, 36, 81-83 48
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- 218 Pressure-induced structural changes in La<sub>1.85</sub>Sr<sub>0.15</sub>CuO<sub>4</sub>. *Physica C: Superconductivity and Its Applications*, **1990**, 169, 179-183 1.3 47

217	An oxalate cathode for lithium ion batteries with combined cationic and polyanionic redox. <i>Nature Communications</i> , <b>2019</b> , 10, 3483	17.4	46
216	Novel vanadium(IV) oxyfluorides with 'spin-ladder'-like structures, and their relationship to (VO)2P2O7. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 1277-82	5.1	46
215	Oxygen-defect structure of non-superconducting La <sub>1.85</sub> Sr <sub>1.15</sub> Cu <sub>2</sub> O <sub>6.25</sub> : excess oxygen in the interlayer site. <i>Physica C: Superconductivity and Its Applications</i> , <b>1990</b> , 169, 464-468	1.3	46
214	Structural, magnetic and electrical properties of the hexagonal ferrites MFeO <sub>3</sub> (M=Y, Yb, In). <i>Journal of Solid State Chemistry</i> , <b>2012</b> , 190, 52-60	3.3	45
213	Mechanism of low thermal expansion in the cation-ordered Nasicon structure. <i>Chemical Communications</i> , <b>1998</b> , 107-108	5.8	45
212	<sup>93</sup> Nb NMR and DFT investigation of the polymorphs of NaNbO <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 7565-76	3.6	44
211	The ionothermal synthesis of metal organic frameworks, Ln(C <sub>9</sub> O <sub>6</sub> H <sub>3</sub> )((CH <sub>3</sub> NH) <sub>2</sub> CO) <sub>2</sub> , using deep eutectic solvents. <i>Solid State Sciences</i> , <b>2010</b> , 12, 418-421	3.4	44
210	Structural distortions in the layered perovskites CsANb <sub>2</sub> O <sub>7</sub> (A=Nd, Bi). <i>Journal of Solid State Chemistry</i> , <b>2003</b> , 173, 309-313	3.3	44
209	The crystal and magnetic structures of Sr <sub>2</sub> CoFeO <sub>5</sub> . <i>Journal of Solid State Chemistry</i> , <b>1988</b> , 76, 334-339	3.3	44
208	Synthesis, structural relationships and magnetic properties of new amine-templated manganese(II) phosphate oxalate framework materials. <i>Dalton Transactions RSC</i> , <b>2001</b> , 1904-1910		42
207	A novel non-centrosymmetric metallophosphate-borate compound via ionothermal synthesis. <i>Dalton Transactions</i> , <b>2009</b> , 5287-9	4.3	41
206	Synthesis and Structure of CaBiO <sub>2</sub> Cl and SrBiO <sub>2</sub> Cl: New Distorted Variants of the Sillen X1 Structure. <i>Journal of Solid State Chemistry</i> , <b>1997</b> , 128, 115-120	3.3	41
205	Dielectric properties and structure of Bi <sub>4</sub> NbO <sub>8</sub> Cl and Bi <sub>4</sub> TaO <sub>8</sub> Cl. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 1141-1145		41
204	Determination of a molecular crystal structure by X-ray powder diffraction on a conventional laboratory instrument. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1992</b> , 1012		40
203	The role of temperature in the solvothermal synthesis of hybrid vanadium oxyfluorides. <i>Dalton Transactions</i> , <b>2007</b> , 4207	4.3	39
202	Comparison of the structural behaviour of the low thermal expansion NZP phases MTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> (M = Li, Na, K). <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 2907-2911		39
201	The preparation, chemistry and crystal structure of the nickel(II) complex of N-hydroxyethylazacyclam [3-(2-hydroxyethyl)-1,3,5,8,12-penta-azacyclotetradecane nickel(II) perchlorate]. A new electrocatalyst for CO <sub>2</sub> reduction. <i>Polyhedron</i> , <b>1997</b> , 16, 3557-3563	2.7	38
200	Mixed inorganic-organic anion frameworks: synthesis and characterisation of [Mn <sub>4</sub> (PO <sub>4</sub> ) <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> )(H <sub>2</sub> O) <sub>2</sub> ] and [H <sub>3</sub> N(CH <sub>2</sub> ) <sub>3</sub> NH <sub>3</sub> ][Mn <sub>2</sub> (HPO <sub>4</sub> ) <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> )(H <sub>2</sub> O) <sub>2</sub> ]. <i>Dalton Transactions RSC</i> , <b>2000</b> , 1595-1599		38

- 199 Hydrothermal syntheses and crystal structures of three zinc succinates:  $Zn(C_4H_4O_4)_2$ ,  $Zn(C_4H_4O_4)_2 \cdot nH_2O$  and  $K_2Zn(C_4H_4O_4)_2$ . *Dalton Transactions*, **2003**, 936-939 4.3 37
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- 189  $Na_2Fe(C_2O_4)_2$ : A New Iron-Based Polyoxyanion Cathode for Li/Na Ion Batteries. *Chemistry of Materials*, **2017**, 29, 2167-2172 9.6 32
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- 185 Powder neutron diffraction studies of three low thermal expansion phases in the NZP family:  $K_{0.5}Nb_{0.5}Ti_{1.5}(PO_4)_3$ ,  $Ba_{0.5}Ti_2(PO_4)_3$  and  $Ca_{0.25}Sr_{0.25}Zr_2(PO_4)_3$ . *Journal of Materials Chemistry*, **1999**, 9, 2631-2636 31
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