Kevin Knight

List of Publications by Citations

271 papers	7,736 citations	47 h-index	73 g-index
279 ext. papers	8,408 ext. citations	3.9 avg, IF	6.03 L-index

#	Paper	IF	Citations
271	Ferroelectric-paraelectric transition in BiFeO3: crystal structure of the orthorhombic beta phase. *Physical Review Letters*, **2009**, 102, 027602	7.4	261
270	Determination of B-site ordering and structural transformations in the mixed transition metal perovskites La2CoMnO6and La2NiMnO6. *Journal of Physics Condensed Matter*, **2003**, 15, 4927-4936	1.8	215
269	Transformation processes in LaAlO3: Neutron diffraction, dielectric, thermal, optical, and Raman studies. *Physical Review B*, **2005**, 72,	3.3	183
268	Negative linear compressibility and massive anisotropic thermal expansion in methanol monohydrate. *Science*, **2011**, 331, 742-6	33.3	178
267	Cooperative mechanisms of fast-ion conduction in gallium-based oxides with tetrahedral moieties. *Nature Materials*, **2007**, 6, 871-5	27	164
266	The structural phase transitions in strontium zirconate revisited. *Journal of Physics Condensed Matter*, **2000**, 12, L677-L683	1.8	160
265	High-temperature phase transitions of hexagonal YMnO3. *Physical Review B*, **2011**, 83,	3.3	158
264	Thermal expansion and crystal structure of cementite, Fe3C, between 4 and 600 K determined by time-of-flight neutron powder diffraction. *Journal of Applied Crystallography*, **2004**, 37, 82-90	3.8	153
263	The polar phase of NaNbO(3): a combined study by powder diffraction, solid-state NMR, and first-principles calculations. *Journal of the American Chemical Society*, **2010**, 132, 8732-46	16.4	137
262	Unusual high-temperature structural behaviour in ferroelectric Bi2WO6. *Chemistry - A European Journal*, **2006**, 12, 1493-9	4.8	129
261	Structural and magnetic properties of the Kagom□antiferromagnet YbBaCo4O7. *Journal of Solid State Chemistry*, **2006**, 179, 1136-1145	3.3	128
260	High-temperature phases of NaNbO3 and NaTaO3. *Acta Crystallographica Section B: Structural Science*, **1999**, 55, 24-30		110
259	Structural phase transitions, oxygen vacancy ordering and protonation in doped BaCeO3: results from time-of-flight neutron powder diffraction investigations. *Solid State Ionics*, **2001**, 145, 275-294	3.3	106
258	The crystal structure of russellite; a re-determination using neutron powder diffraction of synthetic Bi2WO6. *Mineralogical Magazine*, **1992**, 56, 399-409	1.7	104
257	The effect of ferromagnetism on the equation of state of Fe 3 C studied by first-principles calculations. *Earth and Planetary Science Letters*, **2002**, 203, 567-575	5.3	102
256	Structures and phase transitions in the ordered double perovskites Ba2BiIIIBiVO6 and Ba2BiIIISbVO6. *Acta Crystallographica Section B: Structural Science*, **2006**, 62, 537-46		96
255	Structure and magnetism in synthetic pyrrhotite Fe7S8: A powder neutron-diffraction study. *Physical Review B*, **2004**, 70,	3.3	93

254	The crystal structures of CuInSe2 and CuInTe2. *Materials Research Bulletin*, **1992**, 27, 161-167	5.1	90
253	Thermal expansion and crystal structure of FeSi between 4 and 1173 K determined by time-of-flight neutron powder diffraction. *Physics and Chemistry of Minerals*, **2002**, 29, 132-139	1.6	88
252	Crystal structure and paramagnetic behaviour of. *Journal of Physics Condensed Matter*, **1997**, 9, 6563-6577	1.8	85
251	The crystal structures of some doped and undoped alkaline earth cerate perovskites. *Materials Research Bulletin*, **1995**, 30, 347-356	5.1	82
250	The □to-□Transition in BiFeO3: A Powder Neutron Diffraction Study. *Advanced Functional Materials* , **2010**, 20, 2116-2123	15.6	81
249	On the lattice parameters of sodium niobate at room temperature and above. *Physica B: Condensed Matter*, **1999**, 266, 368-372	2.8	77
248	Effect of Ga incorporation on the structure and Li ion conductivity of La3Zr2Li7O12. *Dalton Transactions*, **2012**, 41, 12048-53	4.3	76
247	High-temperature phase transitions in tungsten trioxide - the last word?. *Journal of Physics Condensed Matter*, **2002**, 14, 377-387	1.8	73
246	Temperature- and pressure-induced proton transfer in the 1:1 adduct formed between squaric acid and 4,4'-bipyridine. *Journal of the American Chemical Society*, **2009**, 131, 3884-93	16.4	72
245	Giant magnetoelastic coupling in a metallic helical metamagnet. *Physical Review Letters*, **2010**, 104, 247202	7.4	70
244	Structural anomalies at the magnetic transition in centrosymmetric BiMnO3. *Physical Review B*, **2007**, 75,	3.3	70
243	High temperature structural phase transitions in SrSnO3 perovskite. *Materials Research Bulletin*, **2005**, 40, 507-520	5.1	69
242	Octahedral cation ordering in olivine at high temperature. II: an in situ neutron powder diffraction study on synthetic MgFeSiO4 (Fa50). *Physics and Chemistry of Minerals*, **2000**, 27, 630-637	1.6	65
241	Structural relationships and a phase diagram for (Ca,Sr)TiO3perovskites. *Journal of Physics Condensed Matter*, **2006**, 18, 10725-10749	1.8	64
240	Thermal expansion of gypsum investigated by neutron powder diffraction. *American Mineralogist*, **1996**, 81, 847-851	2.9	63
239	The crystal structure and thermal expansion tensor of MgSO4□1D2O(meridianiite) determined by neutron powder diffraction. *Physics and Chemistry of Minerals*, **2008**, 35, 207-221	1.6	62
238	Strain mechanism for order-parameter coupling through successive phase transitions in PrAlO3. *Physical Review B*, **2005**, 72,	3.3	62
237	Neutron powder diffraction study of the scintillator material ZnWO4. *Journal of Materials Science*, **1996**, 31, 2873-2877	4.3	62

236	Thermally Robust Anion-Chain Order in Oxynitride Perovskites. *Chemistry of Materials*, **2013**, 25, 5004-5016	9.6	60
235	The role of hydrogen bonding in the thermal expansion and dehydration of brushite, di-calcium phosphate dihydrate. *Physics and Chemistry of Minerals*, **2004**, 31, 606-624	1.6	57
234	High-Temperature Study of Octahedral Cation Exchange in Olivine by Neutron Powder Diffraction. *Science*, **1996**, 271, 1713-1715	33.3	54
233	Does the modulated magnetic structure of BiFeO3change at low temperatures?. *Journal of Physics Condensed Matter*, **2006**, 18, 2069-2075	1.8	52
232	Thermal expansion and atomic displacement parameters of cubic KMgF3perovskite determined by high-resolution neutron powder diffraction. *Journal of Applied Crystallography*, **2002**, 35, 291-295	3.8	51
231	The high-pressure phase diagram of ammonia dihydrate. *High Pressure Research*, **2007**, 27, 201-212	1.6	50
230	Facile proton conduction in H+/Li+ ion-exchanged garnet-type fast Li-ion conducting Li5La3Nb2O12. *Journal of Materials Chemistry A*, **2013**, 1, 13469	13	49
229	Neutron diffraction in situ monitoring of the dislocation density during martensitic transformation in a stainless steel. *Scripta Materialia*, **2013**, 68, 506-509	5.6	49
228	Powder neutron diffraction studies of BaCe0.9Y0.1O2.95 and BaCeO3 at 4.2 K: a possible structural site for the proton. *Solid State Ionics*, **2000**, 127, 43-48	3.3	49
227	Determination of olivine cooling rates from metal-cation ordering. *Nature*, **1996**, 381, 407-409	50.4	49
226	Distortion Characteristics Across the Structural Phase Transition in (Cu1⊠ Zn x)WO4. *Acta Crystallographica Section B: Structural Science*, **1997**, 53, 102-112		48
225	Spiral-spin-driven ferroelectricity in a multiferroic delafossite AgFeO2. *Physical Review Letters*, **2012**, 109, 097203	7.4	47
224	Right handed or left handed? Forbidden x-ray diffraction reveals chirality. *Physical Review Letters*, **2008**, 100, 145502	7.4	47
223	Structural distortions in the layered perovskites CsANb2O7 (A=Nd, Bi). *Journal of Solid State Chemistry*, **2003**, 173, 309-313	3.3	44
222	Enantiospecific preparation of [(2r,6s)-endo]-5-aza-1,10,10-trimethyl-3-oxatricyclo[5.2.1.02,6]decan-4-one by a nitrene-mediated route from [(1s)-endo]-(⊡+borneol and its utility as a chiral auxiliary in some asymmetric transformations. *Tetrahedron*, **1992**, 48, 7979-8006	2.4	43
221	Single-crystal X-ray diffraction analysis of pyrene II at 93K. *Journal of Molecular Structure*, **2000**, 520, 29-32	3.4	42
220	The thermoelastic properties of MgSO47D2O (epsomite) from powder neutron diffraction and ab initio calculation. *European Journal of Mineralogy*, **2006**, 18, 449-462	2.2	41
219	Structure and thermoelectric properties of the ordered skutterudite CoGe1.5Te1.5. *Journal of Solid State Chemistry*, **2006**, 179, 2047-2053	3.3	41

218	No evidence for large-scale proton ordering in Antarctic ice from powder neutron diffraction. *Journal of Chemical Physics*, **2004**, 120, 11376-9	3.9	39
217	Zigzag ladders with staggered magnetic chirality in the S=32 compound CaCr2O4. *Physical Review B*, **2010**, 81,	3.3	38
216	Space group and lattice constants for barium cerate and minor corrections to the crystal structures of BaCe0.9Y0.1O2.95 and BaCe0.9Gd0.1O2.95. *Journal of Materials Chemistry*, **1994**, 4, 899		38
215	The incompressibility and thermal expansivity of D2O ice II determined by powder neutron diffraction. *Journal of Applied Crystallography*, **2005**, 38, 612-618	3.8	37
214	Crystallographic and magnetic structure of the perovskite-type compound BaFeO2.5: unrivaled complexity in oxygen vacancy ordering. *Inorganic Chemistry*, **2014**, 53, 5911-21	5.1	36
213	Spontaneous strain variations through the low temperature phase transitions of deuterated lawsonite. *American Mineralogist*, **2003**, 88, 534-546	2.9	36
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211	Accurate quantification of the modal mineralogy of rocks when image analysis is difficult. *Mineralogical Magazine*, **2002**, 66, 189-200	1.7	35
210	Cation disorder and phase transitions in the structurally complex solar cell material Cu2ZnSnS4. *Journal of Materials Chemistry A*, **2017**, 5, 16672-16680	13	34
209	Structural phase transition and magnetism in hexagonal SrMnO3 by magnetization measurements and by electron, x-ray, and neutron diffraction studies. *Physical Review B*, **2007**, 75,	3.3	34
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206	Analytical expressions to determine the isothermal compressibility tensor and the isobaric thermal expansion tensor for monoclinic crystals: application to determine the direction of maximum compressibility in jadeite. *Physics and Chemistry of Minerals*, **2010**, 37, 529-533	1.6	33
205	Quadrupole and hexadecapole ordering in DyB2C2: Direct observation with resonant x-ray diffraction. *Physical Review B*, **2004**, 69,	3.3	33
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203	A high-resolution neutron powder diffraction study of ammonia dihydrate (ND3?2D2O) phase I. *Journal of Chemical Physics*, **2003**, 119, 10806-10813	3.9	33
202	Crystal structures of gadolinium- and yttrium-doped barium cerate. *Journal of Materials Chemistry*, **1992**, 2, 709		33
201	Magnetoelastic coupling and competing entropy changes in substituted CoMnSi metamagnets. *Physical Review B*, **2013**, 87,	3.3	32

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198	A neutron powder diffraction study of cation ordering in high-temperature synthetic amphiboles. *European Journal of Mineralogy*, **1999**, 11, 321-332	2.2	32
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193	THE LOW-TEMPERATURE AND HIGH-PRESSURE THERMOELASTIC AND STRUCTURAL PROPERTIES OF CHALCOPYRITE, CuFeS2. *Canadian Mineralogist*, **2011**, 49, 1015-1034	0.7	30
192	Structural aspects of the phase transition in. *Journal of Physics Condensed Matter*, **1997**, 9, 3503-3519	1.8	30
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188	Polysomatic apatites. *Acta Crystallographica Section B: Structural Science*, **2010**, 66, 1-16		28
187	Two-dimensional spin liquid behaviour in the triangular-honeycomb antiferromagnet TbInO3. *Nature Physics*, **2019**, 15, 262-268	16.2	27
186	Thermal evolution of the crystal structure of the orthorhombic perovskite LaFeO3. *Journal of Solid State Chemistry*, **2015**, 230, 337-342	3.3	27
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184	Phase behaviour and thermoelastic properties of perdeuterated ammonia hydrate and ice polymorphs from 0 to 2 GPa. *Journal of Applied Crystallography*, **2009**, 42, 846-866	3.8	27
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182	Lithium insertion properties of Li TiNb2O7 investigated by neutron diffraction and first-principles modelling. *Journal of Solid State Chemistry*, **2015**, 229, 19-25	3.3	26
181	Structural and dielectric studies of the phase behaviour of the topological ferroelectric La1-xNdxTaO4. *Dalton Transactions*, **2015**, 44, 10673-80	4.3	25
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179	Experimental evidence of anapolar moments in the antiferromagnetic insulating phase of V2O3 obtained from x-ray resonant Bragg diffraction. *Physical Review B*, **2010**, 81,	3.3	25
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174	The microscopic origin of thermal cracking in rocks: An investigation by simultaneous time-of-flight neutron diffraction and acoustic emission monitoring. *Geophysical Research Letters*, **2001**, 28, 2105-2108	4.9	24
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172	Substitution of Ti3+ and Ti4+ in hibonite (CaAl12O19). *American Mineralogist*, **2014**, 99, 1369-1382	2.9	23
171	Structural and thermoelastic properties of CaTiO3 perovskite between 7 K and 400 K. *Journal of Alloys and Compounds*, **2011**, 509, 6337-6345	5.7	23
170	Structural phase transitions in germanate analogues of investigated by high-resolution neutron powder diffraction. *Journal of Physics Condensed Matter*, **1997**, 9, 3833-3851	1.8	23
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166	Vanadium magnetoelectric multipoles in V2O3. *Physical Review B*, **2007**, 75,	3.3	22
165	Introducing a large polar tetragonal distortion into Ba-doped BiFeO3 by low-temperature fluorination. *Inorganic Chemistry*, **2014**, 53, 12572-83	5.1	21

164	The structure of□Bi2Sn2O7 at725 °C by high-resolution neutron diffraction: implicationsfor bismuth(III)-containing pyrochlores. *Journal of the Chemical Society Dalton Transactions*, **1997**, 2551-2556		21
163	Cooperative Jahn-Teller Effect in Titanium Alum. *Journal of the American Chemical Society*, **1997**, 119, 3324-3332	16.4	21
162	Composition and temperature dependence of cation ordering in Ni-Mg olivine solid solutions: a time-of-flight neutron powder diffraction and EXAFS study. *American Mineralogist*, **2001**, 86, 1170-1187	2.9	21
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160	Cobalt adipate, Co(C6H8O4): antiferromagnetic structure, unusual thermal expansion and magnetoelastic coupling. *Materials Horizons*, **2014**, 1, 332-337	14.4	20
159	Synthesis, structural and magnetic characterisation of the fluorinated compound 15R-BaFeO2F. *Journal of Solid State Chemistry*, **2013**, 203, 218-226	3.3	20
158	Impact of Jahn-Teller active Mn3+ on strain effects and phase transitions in Sr0.65Pr0.35MnO3. *Physical Review B*, **2012**, 85,	3.3	20
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150	Rhombohedral to cubic phase transition in the relaxor ferroelectric PZN. *Journal of Physics Condensed Matter*, **2006**, 18, L233-L240	1.8	19
149	Resonant x-ray Bragg diffraction from orbital moments in vanadium sesquioxide (V2O3) and haematite (□Fe2O3). *Journal of Physics Condensed Matter*, **2000**, 12, L367-L372	1.8	19
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147	Cation ordering in MgTi2O5 (karrooite): Probing temperature dependent effects with neutrons. *American Mineralogist*, **2007**, 92, 1165-1180	2.9	18

146	Investigation into the dehydration of selenate doped Na2M(SO4)2·2H2O (M = Mn, Fe, Co and Ni): Stabilisation of the high Na content alluaudite phases Na3M1.5(SO4)3-1.5x(SeO4)1.5x (M = Mn, Co and Ni) through selenate incorporation. *Journal of Solid State Chemistry*, **2018**, 258, 64-71	3.3	17
145	Synchrotron X-ray absorption spectroscopy and X-ray powder diffraction studies of the structure of johnbaumite [Ca10(AsO4)6(OH,F)2] and synthetic Pb-, Sr- and Ba-arsenate apatites and some comments on the crystal chemistry of the apatite structure type in general. *Mineralogical Magazine*, **2009**, 73, 433-455	1.7	17
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139	Low temperature thermoelastic and structural properties of LaGaO3 perovskite in the Pbnm phase. *Journal of Solid State Chemistry*, **2012**, 194, 286-296	3.3	16
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136	Cation Substitution in Defect Thiospinels: Structural and Magnetic Properties of GaV4-xMoxS8 (0□□). *Chemistry of Materials*, **2007**, 19, 5035-5044	9.6	16
135	High-resolution neutron powder diffraction study on the phase transitions in BaPbO3. *Journal of Solid State Chemistry*, **2007**, 180, 1559-1565	3.3	16
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133	Using neutron diffraction measurements to characterize the mechanical properties of polymineralic rocks. *Mineralogical Magazine*, **2003**, 67, 967-987	1.7	16
132	A high temperature structural phase transition in crocoite (PbCrO4) at 1068 K: crystal structure refinement at 1073 K and thermal expansion tensor determination at 1000 K. *Mineralogical Magazine*, **2000**, 64, 291-300	1.7	16
131	Phase coexistence in NaTaO3 at room temperature; a high resolution neutron powder diffraction study. *Solid State Sciences*, **2015**, 43, 15-21	3.4	15
130	Orbital frustration in the S = □ kagome magnet vesignieite, BaCu3V2O8(OH)2. *Journal of Materials Chemistry C*, **2016**, 4, 10315-10322	7.1	15
129	Synthesis, structural characterisation and proton conduction of two new hydrated phases of barium ferrite BaFeO2.5□(OH)2x. *Journal of Materials Chemistry A*, **2016**, 4, 3415-3430	13	15

128	The competition between halogen bonds (Br?O) and CH?O hydrogen bonds: the structure of the acetone–bromine complex revisited. *CrystEngComm*, **2013**, 15, 8572	3.3	15
127	A high-resolution neutron powder diffraction investigation of galena (PbS) between 10 K and 350 K: no evidence for anomalies in the lattice parameters or atomic displacement parameters in galena or altaite (PbTe) at temperatures corresponding to the saturation of cation disorder. *Journal of Physics Condensed Matter*, **2014**, 26, 385403	1.8	15
126	Synthesis, characterization and physical properties of the skutterudites YbxFe2Ni2Sb12 (0≤x≤0.4). *Journal of Solid State Chemistry*, **2012**, 193, 36-41	3.3	15
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124	Revision of the structure of Cs2CuSi5O12 leucite as orthorhombic Pbca. *Acta Crystallographica Section B: Structural Science*, **2010**, 66, 51-9		15
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122	The crystal structure of KCaF3 at 4.2 and 300 K: A re-evaluation using high-resolution powder neutron diffraction. *Powder Diffraction*, **2005**, 20, 7-13	1.8	15
121	Magnetic and structural phase diagram of the solid solution LaCoxMn1−xO3. *Physical Review B*, **2016**, 94,	3.3	14
120	Thermoelastic and structural properties of ionically conducting cerate perovskites: (I) BaCeO3 at low temperature in the Pbnm phase. *Solid State Ionics*, **2013**, 232, 112-122	3.3	14
119	Crystal structures, strain analysis, and physical properties of Sr0.7Ce0.3MnO3. *Physical Review B*, **2012**, 85,	3.3	14
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117	High temperature structural and thermoelastic behaviour of mantle orthopyroxene: an in situ neutron powder diffraction study. *Physics and Chemistry of Minerals*, **2007**, 34, 185-200	1.6	14
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