Vaclav Petricek

List of Publications by Citations

199 papers	6,101 citations	33 h-index	72 g-index
204 ext. papers	6,892 ext. citations	3.6 avg, IF	6.04 L-index

#	Paper	IF	Citations
199	Crystallographic Computing System JANA2006: General features. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2014**, 229,	1	2468
198	X-ray analysis of the incommensurate modulation in the 2:2:1:2 Bi-Sr-Ca-Cu-O superconductor including the oxygen atoms. *Physical Review B*, **1990**, 42, 387-392	3.3	165
197	Cu12Sb4S13: A Temperature-Dependent Structure Investigation. *Acta Crystallographica Section B: Structural Science*, **1997**, 53, 337-345		99
196	Refinement of modulated structures against X-ray powder diffraction data withJANA2000. *Journal of Applied Crystallography*, **2001**, 34, 398-404	3.8	89
195	Structure refinement using precession electron diffraction tomography and dynamical diffraction: theory and implementation. *Acta Crystallographica Section A: Foundations and Advances*, **2015**, 71, 235-44	1.7	87
194	Structure refinement using precession electron diffraction tomography and dynamical diffraction: tests on experimental data. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2015**, 71, 740-51	1.8	79
193	On the use of crenel functions for occupationally modulated structures. *Acta Crystallographica Section A: Foundations and Advances*, **1995**, 51, 529-535		77
192	Contribution of powder diffraction for structure refinements of aperiodic misfit cobalt oxides. *Journal of Applied Crystallography*, **2004**, 37, 823-831	3.8	65
191	Single magnetic chirality in the magnetoelectric NdFe3(B11O3)4. *Physical Review B*, **2010**, 81,	3.3	64
190	Anomalous scattering study of the bi distribution in the 2212 superconductor: implications for cu valency. *Science*, **1989**, 244, 62-3	33.3	62
189	The modulated structure of Ba0.39Sr0.61Nb2O6. I. Harmonic solution. *Acta Crystallographica Section B: Structural Science*, **2003**, 59, 28-35		60
188	[Ru(py)4Cl(NO)](PF6)2.0.5H2O: a model system for structural determination and ab initio calculations of photo-induced linkage NO isomers. *Acta Crystallographica Section B: Structural Science*, **2009**, 65, 612-23		58
187	An incommensurately modulated structure of □phase of Cu(3+x)Si determined by quantitative electron diffraction tomography. *Inorganic Chemistry*, **2011**, 50, 3743-51	5.1	54
186	Sodium carbonate revisited. *Acta Crystallographica Section B: Structural Science*, **2003**, 59, 337-52		52
185	Hexagonal close-packed C60. *Chemical Physics Letters*, **1994**, 219, 469-472	2.5	50
184	Low-temperature structure of solid C70. *Chemical Physics Letters*, **1994**, 223, 323-328	2.5	50
183	Determination of the modulated structure of Sr14/11CoO3 through a (3 + 1)-dimensional space description and using non-harmonic ADPs. *Acta Crystallographica Section B: Structural Science*, **1999**, 55, 841-848		49

182	Orientational disorder in phenanthrene. Structure determination at 248, 295, 339 and 344 K. *Acta Crystallographica Section B: Structural Science*, **1990**, 46, 830-832		49
181	Five-dimensional structure refinement of natural melilite, (Ca(1.89)Sr(0.01)Na(0.08)K(0.02))(Mg(0.92)Al(0.08)-(Si(1.98)Al(0.02))O(7). *Acta Crystallographica Section B: Structural Science*, **2001**, 57, 739-46		48
180	Location of Fluoride Counterion in As-Synthesized Silicalite-1 by Single Crystal X-ray Diffraction *Journal of Physical Chemistry B*, **2002**, 106, 1110-1117	3.4	46
179	Magnetic superspace groups and symmetry constraints in incommensurate magnetic phases. *Journal of Physics Condensed Matter*, **2012**, 24, 163201	1.8	45
178	Crystallographic computing system Jana2006: solution and refinement of twinned structures. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2016**, 231, 583-599	1	45
177	Effect of Nonmagnetic Substituents Mg and Zn on the Phase Competition in the Multiferroic Antiferromagnet MnWO4. *Chemistry of Materials*, **2009**, 21, 5203-5214	9.6	40
176	Structures and Phase Transitions of the A 7PSe6 (A = Ag, Cu) Argyrodite-Type Ionic Conductors. I. Ag7PSe6. *Acta Crystallographica Section B: Structural Science*, **1998**, 54, 376-383		40
175	The incommensurate modulation in the Bi2Sr2CaxCuO6 superconductor, and its relation to the modulation in Bi2Sr2CaxCu2O8. *Physica C: Superconductivity and Its Applications*, **1989**, 160, 431-438	1.3	40
174	High-temperature structural phase transition in studied by in-situ X-ray diffraction and transmission electron microscopy. *Journal of Solid State Chemistry*, **2009**, 182, 1515-1523	3.3	39
173	Structural features of the modulated BiCu2(P(1-x)V(x))O6 solid solution; 4-D treatment of x = 0.87 compound and magnetic spin-gap to gapless transition in new Cu2+ two-leg ladder systems. *Journal of the American Chemical Society*, **2006**, 128, 10857-67	16.4	38
172	Structures and phase transitions of the A7PSe6 (A = ag, Cu) argyrodite-type ionic conductors. III. alpha-Cu7PSe6. *Acta Crystallographica Section B: Structural Science*, **2000**, 56 (Pt 6), 972-9		37
171	THE CRYSTAL STRUCTURE OF ROXBYITE, Cu58S32. *Canadian Mineralogist*, **2012**, 50, 423-430	0.7	36
170	Structure of the light-induced metastable state SII in Na2[Fe(CN)5NO]H2O. *Physical Review B*, **2005**, 71,	3.3	36
169	Synthesis, crystal structure and spectral characteristics of highly fluorescent chalcone-based coumarin in solution and in polymer matrix. *Journal of Physics and Chemistry of Solids*, **2014**, 75, 188-193	3.9	34
168	Structures and phase transitions of the A7PSe6 (A = Ag, Cu) argyrodite-type ionic conductors. II. Beta- and gamma-Cu7PSe6. *Acta Crystallographica Section B: Structural Science*, **2000**, 56 (Pt 3), 402-8		34
167	High-resolution synchrotron x-ray powder diffraction study of the incommensurate modulation in the martensite phase of Ni2MnGa: Evidence for nearly 7M modulation and phason broadening. *Physical Review B*, **2014**, 90,	3.3	33
166	Structure of Crystalline (C5Me5)ReO3 and Implied Nonexistence of "(C5Me5)Tc2O3". *Inorganic Chemistry*, **1995**, 34, 4253-4255	5.1	32
165	Electronic properties of a distorted kagome lattice antiferromagnet Dy3Ru4Al12. *Physical Review B* , **2014**, 90,	3.3	31

164	Revision of Ferroelastic Structures of n-Heptyl- and n-Octylammonium Dihydrogen Phosphate Crystals. *Acta Crystallographica Section B: Structural Science*, **1997**, 53, 272-279		31
163	Discontinuous modulation functions and their application for analysis of modulated structures with the computing system JANA2006. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2016**, 231, 301-312	1	30
162	A single-crystal x-ray and HRTEM study of the heavy-fermion compound. *Journal of Physics Condensed Matter*, **1996**, 8, 4485-4493	1.8	30
161	Methods of structural analysis and computer program JANA2000. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2004**, 219,	1	30
160	Study of the antiferromagnetism of Mn5Si3: an inverse magnetocaloric effect material. *Journal of Materials Chemistry*, **2012**, 22, 15275		29
159	Use of [SbF6]□ to Isolate Cationic Copper and Silver Adducts with More than One Ethylene on the Metal Center. *Organometallics*, **2013**, 32, 3034-3041	3.8	29
158	The description and analysis of composite crystals. *Acta Crystallographica Section A: Foundations and Advances*, **1991**, 47, 210-216		29
157	Structural evolution of ZTA composites during synthesis and processing. *Journal of the European Ceramic Society*, **2015**, 35, 1273-1283	6	28
156	A (3 + 3)-dimensional "hypercubic" oxide-ionic conductor: type II Bi2O3-Nb2O5. *Journal of the American Chemical Society*, **2013**, 135, 6477-84	16.4	28
155	Improved Thermoelectric Characteristics of Si-Doped Misfit-Layered Cobaltite. *Journal of Electronic Materials*, **2011**, 40, 1042-1045	1.9	27
154	Neutron diffraction shows a photoinduced isonitrosyl linkage isomer in the metastable state SI of Na2[Fe(CN)5NO]□D2O. *Physical Review B*, **2006**, 73,	3.3	26
153	Effect of crystal freezing and small-molecule binding on internal cavity size in a large protein: X-ray and docking studies of lipoxygenase at ambient and low temperature at 2.0 A resolution. *Acta Crystallographica Section D: Biological Crystallography*, **2006**, 62, 766-75		26
152	Refinement of the Crystal Structure of Cronstedtite-1T. *Clays and Clay Minerals*, **2000**, 48, 331-338	2.1	26
151	Phase Transition in K3Na(MoO4)2 and Determination of the Twinned Structures of K3Na(MoO4)2 and K2.5Na1.5(MoO4)2 at Room Temperature. *Acta Crystallographica Section B: Structural Science*, **1997**, 53, 596-603		25
150	The modulated structure of the commensurate misfit-layer compound (BiSe)1.09TaSe2. *Acta Crystallographica Section B: Structural Science*, **1993**, 49, 258-266		24
149	Room-temperature tetragonal non-collinear Heusler antiferromagnet Pt2MnGa. *Nature Communications*, **2016**, 7, 12671	17.4	23
148	Zn1□x Pd x (x =0.14□0.24): a missing link between intergrowth compounds and quasicrystal approximants. *Philosophical Magazine*, **2006**, 86, 419-425	1.6	23
147	Refinement of the Crystal Structure of Cronstedtite-3T. *Clays and Clay Minerals*, **1994**, 42, 544-551	2.1	23

146	SQUID behavior at liquid nitrogen temperature in high-T c superconductors of the type Y-Ba-Cu-O. *Journal of Low Temperature Physics*, **1988**, 70, 187-190	1.3	23
145	Multiple anion...□interactions in tris(1,10-phenanthroline-κ2N,N′)iron(II) bis[1,1,3,3-tetracyano-2-(2-hydroxyethyl)propenide] monohydrate. *Acta Crystallographica Section C: Crystal Structure Communications*, **2013**, 69, 1351-6		22
144	An exceptional series of phase transitions in hydrophobic amino acids with linear side chains. *IUCrJ*, **2016**, 3, 341-353	4.7	21
143	Importance of True Satellite Reflections in the Analysis of Modulated, Composite Crystal Structures. II. The Structure of [M2Cu2O3]7[CuO2]10, M=Bi0.04Sr0.96. *Acta Crystallographica Section B: Structural Science*, **1997**, 53, 125-134		21
142	Intricate disorder in defect fluorite/pyrochlore: a concord of chemistry and crystallography. *Scientific Reports*, **2017**, 7, 3727	4.9	20
141	New insights into the structure, chemistry, and properties of Cu4SnS4. *Journal of Solid State Chemistry*, **2017**, 253, 192-201	3.3	20
140	Syntheses and study on nickel and copper complexes with 1,3,5-benzenetricarboxylic acid. Crystal and molecular structure of [Cu3(mdpta)3(btc)](ClO4)3·4H2O. *Polyhedron*, **2007**, 26, 535-542	2.7	20
139	Structural and thermopower studies of CeNiAl4- and CeNiIn4-related compounds. *Journal of Alloys and Compounds*, **2000**, 308, 64-70	5.7	20
138	Incommensurately modulated structure of TaGe0.354Te2: application of crenel functions. *Acta Crystallographica Section B: Structural Science*, **1996**, 52, 100-109		20
137	The crystal structure of franckeite, Pb21.7Sn9.3Fe4.0Sb8.1S56.9. *American Mineralogist*, **2011**, 96, 1686-1702	1.9	19
136	Importance of True Satellite Reflections in the Analysis of Modulated, Composite Crystal Structures. I. A New Refinement of [M 2Cu2O3]7+[CuO2]10, M = Bi0.06Sr0.46Ca0.48. *Acta Crystallographica Section B: Structural Science*, **1997**, 53, 113-124		19
135	New Layered Compounds through Polysulfide Flux Synthesis;A2Sn4S9(A=K, Rb, Cs) Present a New Form of the [Sn4S9]2□Network. *Journal of Solid State Chemistry*, **1998**, 141, 17-28	3.3	19
134	Structural properties of Sr0.61Ba0.39Nb2O6 in the temperature range 10□500K investigated by high-resolution neutron powder diffraction and specific heat measurements. *Physical Review B*, **2006**, 74,	3.3	19
133	Cubic octanuclear aluminum fluoride phosphonate. *Inorganic Chemistry*, **2006**, 45, 6562-4	5.1	19
132	Structure of delta1-CoZn(7.8), an example of a phason pinning-unpinning transformation?. *Acta Crystallographica Section B: Structural Science*, **2003**, 59, 720-9		19
131	Structure determination of the ferroelastic triple-twinned phase of K3Na(SeO4)2 at 291 K and its parent phase at 390 K. *Acta Crystallographica Section B: Structural Science*, **1993**, 49, 826-832		19
130	An alternative convention for solving the ambiguity problem of (3+1) superspace group symbols. *Acta Crystallographica Section A: Foundations and Advances*, **1989**, 45, 61-63		19
129	Reducing the positional modulation of NbO6-octahedra in SrxBa1□xNb2O6 by increasing the barium content: A single crystal neutron diffraction study at ambient temperature for x = 0.61 and x = 0.34. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2008**, 223, 399-426	1	18

128	Modular crystals as modulated structures: the case of the lillianite homologous series. *Acta Crystallographica Section B: Structural Science*, **2008**, 64, 684-701		18
127	Refinement of the crystal structures of two "protolithionites". *European Journal of Mineralogy*, **1993**, 5, 493-502	2.2	18
126	Solid-state phase transitions of DL-aminobutyric acid. *Journal of Physical Chemistry B*, **2012**, 116, 10715-21	3.4	17
125	Structure determination of two modulated gamma-brass structures in the Zn-Pd System through a (3 + 1)-dimensional space description. *Inorganic Chemistry*, **2009**, 48, 9715-22	5.1	17
124	GdCo(1-x)Ga3Ge: charge density wave in a Ga square net. *Journal of the American Chemical Society*, **2007**, 129, 3082-3	16.4	17
123	Microstrain-like diffraction-line broadening as exhibited by incommensurate phases in powder diffraction patterns. *Journal of Applied Crystallography*, **2007**, 40, 1027-1034	3.8	17
122	Superspace-symmetry determination and multidimensional refinement of the incommensurately modulated structure of natural fresnoite. *Acta Crystallographica Section B: Structural Science*, **2006**, 62, 1031-7		17
121	Charge density study of hydrogen [(2,4-diaminopyrimidin-1-io)methyl]phosphonate monohydrate. *Acta Crystallographica Section B: Structural Science*, **2002**, 58, 519-29		17
120	Refinement of incommensurate structures against diffraction data from a twinned crystal. *Acta Crystallographica Section A: Foundations and Advances*, **1992**, 48, 610-618		17
119	Magnetic anisotropy and reduced neodymium magnetic moments in Nd3Ru4Al12. *Physical Review B*, **2016**, 93,	3.3	16
118	Polymorph Stability Prediction: On the Importance of Accurate Structures: A Case Study of Pyrazinamide. *Crystal Growth and Design*, **2014**, 14, 381-388	3.5	16
117	Assignment of 4f□d absorption bands in Ce-doped RAlO3 (R=La, Gd, Y, Lu) perovskites. *Physical Review B*, **2009**, 79,	3.3	16
116	Structural phase transitions in SrRh2As2. *Physical Review B*, **2012**, 85,	3.3	15
115	Growth of crystals, composite crystal structures and electrical resistance of high-pressure phases of Mg2B1+x (B=Sn,Ge). *Journal of Alloys and Compounds*, **1998**, 278, 29-33	5.7	15
114	Two-dimensional lanthanide coordination polymers with bis(diphenylphosphino)hexane dioxide. The determination of the polymeric structure from twinned crystals. *Polyhedron*, **2008**, 27, 283-288	2.7	15
113	Refinement of the crystal structure of cronstedtite-2H2. *Clays and Clay Minerals*, **2002**, 50, 601-613	2.1	15
112	Long-range ordering during delithiation of LiMn2O4 cathode material. *Journal of Materials Chemistry*, **2003**, 13, 585-589		15
111	The commensurately modulated structure of the lock-in phase of synthetic Co-□ermanite, Ca2CoSi2O7. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2000**, 215, 102-109	1	15

110	The interface-modulated structure of TaSi0.360Te2. *Acta Crystallographica Section B: Structural Science*, **1994**, 50, 119-128		15
109	Refinement of high pressure single-crystal diffraction data using Jana2006. *High Pressure Research*, **2013**, 33, 196-201	1.6	14
108	A new structure type in the hexagonal perovskite family; structure determination of the modulated misfit compound Sr(9/8)TiS3. *Acta Crystallographica Section B: Structural Science*, **2000**, 56 (Pt 3), 409-18		14
107	(3 + 2)-Dimensional superspace approach to the structure of the incommensurate intergrowth compound: (SbS)1.15TiS2. *Acta Crystallographica Section B: Structural Science*, **1995**, 51, 275-287		14
106	Structural evolution of one-dimensional spin-ladder compounds Sr14−xCaxCu24O41 with Ca doping and related evidence of hole redistribution. *Physical Review B*, **2011**, 84,	3.3	13
105	Ag2Ti2P2S11: A New Layered Thiophosphate. Synthesis, Structure Determination and Temperature Dependence of the Silver Distribution. *Acta Crystallographica Section B: Structural Science*, **1997**, 53, 67-75		13
104	Adaptive modulation in the Ni2Mn1.4In0.6 magnetic shape-memory Heusler alloy. *Physical Review B* , **2018**, 97,	3.3	12
103	Synthesis, growth and characterization of 4-bromo-4?-nitrobenzylidene aniline (BNBA): a novel nonlinear optical material with a (3+1)-dimensional incommensurately modulated structure. *CrystEngComm*, **2013**, 15, 2474	3.3	12
102	Realization of the kagome spin ice state in a frustrated intermetallic compound. *Science*, **2020**, 367, 1218-1223	3.3	11
101	Toward a better understanding of the magnetocaloric effect: An experimental and theoretical study of MnFe4Si3. *Journal of Solid State Chemistry*, **2014**, 216, 56-64	3.3	11
100	Crystal structure and formula revision of deliensite, Fe[(UO2)2(SO4)2(OH)2](H2O)7. *Mineralogical Magazine*, **2012**, 76, 2837-2860	1.7	11
99	Spiral ground state against ferroelectricity in the frustrated magnet BiMnFe2O6. *Physical Review B*, **2011**, 83,	3.3	11
98	First (3 + 2)-dimensional superspace approach to the structure of levyclaudite-(Sb), a member of the cylindrite-type minerals. *Acta Crystallographica Section B: Structural Science*, **2006**, 62, 775-89		11
97	Modulated one-dimensional structure of [Cd(NH3)3Ni(CN)4]. *Acta Crystallographica Section B: Structural Science*, **2005**, 61, 280-6		11
96	Ferroelastic structures of n-pentyl-, n- hexyl- and n-nonylammonium dihydrogenphosphate crystals. *Acta Crystallographica Section B: Structural Science*, **2000**, 56 (Pt 5), 906-14		11
95	The low-temperature phase transition sequence of the halide perovskite tetramethylammonium trichlorogermanate(II) and the structure of its incommensurately modulated δ-phase. *Acta Crystallographica Section B: Structural Science*, **1995**, 51, 768-779		11
94	Incommensurate modulations in the lead-doped bismuth strontium calcium copper oxide 221 superconducting phase: a five-dimensional superspace description. *Chemistry of Materials*, **1990**, 2, 323-328	9.6	11
93	Complex magnetic order in the kagome ferromagnet Pr3Ru4Al12. *Physical Review B*, **2018**, 97,	3.3	10

92	(3 + 1)-dimensional crystal and antiferromagnetic structures in CeRuSn. *Journal of Physics Condensed Matter*, **2014**, 26, 122201	1.8	10
91	Modulated structure of nepheline. *Acta Crystallographica Section B: Structural Science*, **2011**, 67, 18-29		10
90	Hexamethylenetetramine Sebacate, an Incommensurate Structure with Large Nonsinusoidal Modulations: Comparison of Two Refinement Strategies. *Acta Crystallographica Section A: Foundations and Advances*, **1998**, 54, 31-43		10
89	INTERPRETATION OF SELECTED STRUCTURES OF THE BISMUTHINITE - AIKINITE SERIES AS COMMENSURATELY MODULATED STRUCTURES. *Canadian Mineralogist*, **2006**, 44, 189-206	0.7	10
88	Structural study of the cation ordering in the ternary oxide Ba8Ti3Nb4O24. *Solid State Sciences*, **2002**, 4, 1129-1136	3.4	10
87	Disorder versus structure analysis in intergrowth urea inclusion compounds. *Journal of Physics Condensed Matter*, **2001**, 13, 1653-1668	1.8	10
86	The incommensurately modulated structure of NiBi. *Solid State Sciences*, **2000**, 2, 353-363	3.4	10
85	A unique distortion in K1/3Ba2/3AgTe2: X-ray diffraction determination and electronic band structure analysis of its incommensurately modulated structure. *Inorganic Chemistry*, **2000**, 39, 1398-409	5.1	9
84	Crystal Structure of the Incommensurately Modulated Nd-Containing Bi-2222 Phase. *Journal of Solid State Chemistry*, **1994**, 109, 74-82	3.3	9
83	Modulated Structure of TaSi0.414Te2: Sandwich Stacking inthe MAxTe2 (M = Nb, Ta; A = Si, Ge; 1/3 .ltoreq. x .ltoreq. 1/2) Series. *Chemistry of Materials*, **1994**, 6, 1776-1783	9.6	9
82	Electronic structure of two isostructural $_7$paddle-wheel$M$complexes: a comparative study. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2018**, 74, 681-692	1.8	9
81	A Comparison of On-Line Computer Science Citation Databases. *Lecture Notes in Computer Science*, **2005**, 438-449	0.9	9
80	Crystal structure of a synthetic tin-selenium representative of the cylindrite structure type. *American Mineralogist*, **2008**, 93, 1787-1798	2.9	8
79	SIMULTANEOUS REFINEMENT OF TWO COMPONENTS OF AN EXSOLUTION INTERGROWTH: CRYSTAL STRUCTURES OF THE LINDSTROMITE - KRUPKAITE PAIR. *Canadian Mineralogist*, **2008**, 46, 525-539	0.7	8
78	Incommensurate modulations in a hollandite phase Bax(Al, Fe)2xTi8−2xO16 intended for the storage of radioactive wastes: a (3+1) dimension structure determination. *Zeitschrift Für Kristallographie*, **2007**, 222, 383-390		8
77	Superspace approach applied to a neutron-diffraction study of the holographic data storage material Sr0.61Ba0.39Nb2O6. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s963-s965	2.6	8
76	Simulation of modulated protein crystal structure and diffraction data in a supercell and in superspace. *Acta Crystallographica Section D: Biological Crystallography*, **2013**, 69, 1062-72		7
75	Neutron photocrystallography: simulation and experiment. *Zeitschrift Für Kristallographie*, **2008**, 223,		7

74	The anionic 3D-framework [Ga2(PO4)3]□a microporous host lattice for various species. *Journal of Solid State Chemistry*, **2004**, 177, 3581-3589	3.3	7
73	The incommensurate structure of K3InPO42. *Acta Crystallographica Section B: Structural Science*, **2003**, 59, 17-27		7
72	Modulated structure of La2Co1.7 from neutron and X-ray diffraction data. *Acta Crystallographica Section B: Structural Science*, **2000**, 56 (Pt 6), 959-71		7
71	11-fold Superstructure of TaGe4/11Te2: A Novel Response to Charge Transfer in the MAxTe2 (M = Nb, Ta; A = Si, Ge; 1/3 .ltoreq. x .ltoreq. 1/2) Series. *Inorganic Chemistry*, **1994**, 33, 3032-3037	5.1	7
70	Structural, mechanical, spectroscopic and thermodynamic characterization of the copper-uranyl tetrahydroxide mineral vandenbrandeite.. *RSC Advances*, **2019**, 9, 40708-40726	3.7	7
69	C6H4S2AsCl: description and interpretation of an incommensurately modulated molecular crystal structure. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2013**, 69, 496-508	1.8	6
68	The crystal structure of Yb2(SO4)3□3H2O and its decomposition product, ╫Yb2(SO4)3. *Journal of Solid State Chemistry*, **2011**, 184, 2322-2328	3.3	6
67	Advances in solution of modulated structures reflected by Jana system. *Journal of Physics: Conference Series*, **2010**, 226, 012014	0.3	6
66	[Ru(py)4Cl(NO)](PF6)2□0.5H2O: a model system for structural determination and ab initio calculations of photo-induced linkage NO isomers. Erratum. *Acta Crystallographica Section B: Structural Science*, **2009**, 65, 787-787		6
65	Re-Refinement of Composite Modulated Nb2Zr x□O2x+1 (x = 8) Using Synchrotron Radiation Data. *Acta Crystallographica Section B: Structural Science*, **1997**, 53, 851-860		6
64	Structures of Fluoroarsenates KAsF6n (OH) n , n = 0, 1, 2: Application of the Heavy-Atom Method for Modulated Structures. *Acta Crystallographica Section B: Structural Science*, **1998**, 54, 809-818		6
63	Composite behavior and multidegeneracy in high-pressure phases of Cs and Rb. *Physical Review Letters*, **2007**, 99, 025502	7.4	6
62	Commensurate and incommensurate structures of the hexabromotellurate(IV) bis[dibromodiselenate(I)] ion - [(C2H5)n(C6H5)4-nP]2[TeBr6(Se2Br2)2], n = 0,1. *Acta Crystallographica Section B: Structural Science*, **2002**, 58, 977-85		6
61	Structure analysis of modulated molecular crystals: The modulated phase of thiourea as described by a molecular displacement model. *Physical Review B*, **1988**, 37, 1825-1831	3.3	6
60	Could incommensurability in sulfosalts be more common than thought? The case of meneghinite, CuPbSbS. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2017**, 73, 369-376	1.8	5
59	The modulated average structure of mullite. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2015**, 71, 358-68	1.8	5
58	Structure refinement and superspace description of the system Bi(2(n + 2))Mo(n)O(6(n + 1)) (n = 3, 4, 5 and 6). *Acta Crystallographica Section B: Structural Science*, **2012**, 68, 323-40		5
57	Conspicuous variation of the lattice unit cell in the pavonite homologous series and its relation with cation/anion occupational modulations. *Materials Research Bulletin*, **2013**, 48, 2166-2174	5.1	5

56	A commensurately modulated structure of parabutlerite, FeSO(OH)□2HO. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2017**, 73, 856-862	1.8	5
55	Crystal structure of the (REE)-uranyl carbonate mineral kamotoite-(Y). *Mineralogical Magazine*, **2017**, 81, 653-660	1.7	5
54	The incommensurately modulated crystal structure of beta-Pb2BiVO6: interpretation of the phase transition alpha --> beta --> delta and conduction properties of related materials. *Acta Crystallographica Section B: Structural Science*, **2009**, 65, 416-25		5
53	Commensurate (C6H14N2)2[Mo8O26] * 4H2O and incommensurate (C6H14N2)2[Mo8O26] * 4.66H2O: a structural versatility linked to solvent content. *Acta Crystallographica Section B: Structural Science*, **2006**, 62, 790-7		5
52	Structure analysis and the existence of light-induced long-lived metastable states in Xn[Fe(CN)5NO] with inorganic and organic cations: Xn = Pb, (H3O+CH6N+), (C2N2H7)2 and (C16H36N)2. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2004**, 219,	1	5
51	Superspace description of the structure of the composite crystal urea/n-octane at room temperature. *Acta Crystallographica Section B: Structural Science*, **2001**, 57, 378-85		5
50	High-pressure structural and dielectric studies of the phase transitions in lithium thallium tartrate monohydrate. *Journal of Physics Condensed Matter*, **2002**, 14, 4045-4054	1.8	5
49	Interlayer inclusion of tetracyanonickelate anion and water molecules: The crystal and molecular structure of [-ZN(en)2-□(NC)2-NI-□(CN)2-ZN(en) -] 2n+ n □h[NI(CN)4]2□□3n H2O. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **1992**, 14, 73-80		5
48	Commensurate to incommensurate magnetic phase transition in honeycomb-lattice pyrovanadate Mn2V2O7. *Physical Review Materials*, **2019**, 3,	3.2	5
47	Precession electron diffraction tomography on twinned crystals: application to CaTiO3 thin films. *Journal of Applied Crystallography*, **2019**, 52, 626-636	3.8	4
46	The (3+3) commensurately modulated structure of the uranyl silicate mineral swamboite-(Nd), Nd0.333[(UO2)(SiO3OH)](H2O)2.41. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2018**, 233, 223-231	1	4
45	Zippeite from Cap Garonne, France: an example of reticular twinning. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2018**, 233, 861-865	1	4
44	How Accurate Do X-ray Data Need To Be To Obtain a Reliable Order of Stability for Polymorphs? The Case Study of p-Hydroxyacetophenone Polymorphs. *Crystal Growth and Design*, **2019**, 19, 5132-5141	3.5	4
43	Unified (3 + 1)-dimensional superspace description of the 2212-type stair-like [Bi2Sr3Fe2O9]m[Bi4Sr6Fe2O16] family of compounds. *Acta Crystallographica Section B: Structural Science*, **2012**, 68, 341-55		4
42	The role of second coordination-sphere interactions in incommensurately modulated structures, using beta-K5Yb(MoO4)4 as an example. *Acta Crystallographica Section B: Structural Science*, **2005**, 61, 400-6		4
41	Average structure of the composite crystal urea/octanedioic acid at room temperature within the superspace formalism. *Acta Crystallographica Section B: Structural Science*, **2001**, 57, 386-93		4
40	Structures in superspace of intergrowth polytypoids LaTi1-xO3 and (Ba1-4xLa4x)Ti1-xO3 with x=1/5. *Ferroelectrics*, **2001**, 250, 31-34	0.6	4
39	Reinvestigation of the Incommensurate Structure of □bO.. *Materials Research Society Symposia Proceedings*, **2002**, 755, 1		4

38	Structure of a modulated monoclinic phase of Na4TiP2O9. *Acta Crystallographica Section B: Structural Science*, **1994**, 50, 261-268		4
37	Structure and stability of BaTiSi□□. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2015**, 71, 153-63	1.8	3
36	Charge density of 4-methyl-3-[(tetrahydro-2H-pyran-2-yl)oxy]thiazole-2(3H)-thione. A comprehensive multipole refinement, maximum entropy method and density functional theory study. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2020**, 76, 450-468	1.8	3
35	New insight on bismuth cuprates with incommensurate modulated structures. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2016**, 72, 395-403	1.8	3
34	Symmetry mode analysis of the phase transitions in Rb2ZnBr4. *Zeitschrift F□ Kristallographie*, **2011**, 226, 454-466		3
33	Composite Crystals: What Are They and Why Are They so Common in the Organic Solid State?. *Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics*, **1990**, 181, 81-90		3
32	Analysis of Multi-Wave Molecular Displacements in Modulated Crystals. *Molecular Crystals and Liquid Crystals*, **1985**, 125, 393-403		3
31	Spontaneous and field-induced magnetic phase transitions in Dy2Co3Al9: Effects of exchange frustration. *Physical Review Materials*, **2018**, 2,	3.2	3
30	Experimental Evidence of the Coexistence of Proper Magnetic and Structural Incommensurability on the [CHNH][Ni(COOH)] Compound. *Inorganic Chemistry*, **2020**, 59, 17896-17905	5.1	3
29	Vacancy pairing and superstructure in the high-pressure silicate KMgSiOH: a new potential host for potassium in the deep Earth. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2016**, 72, 822-827	1.8	3
28	Easily oxidizable triarylamine materials with naphthalene and binaphthalene core: structure–properties relationship. *Tetrahedron*, **2016**, 72, 7081-7092	2.4	3
27	Microscopic Nature of the First-Order Field-Induced Phase Transition in the Strongly Anisotropic Ferrimagnet HoFe_{5}Al_{7}. *Physical Review Letters*, **2019**, 122, 127205	7.4	2
26	Mullite-derivative Bi2Mn(x)Al(7-x)O14 (x~1): structure determination by powder X-ray diffraction from a multi-phase sample. *Dalton Transactions*, **2012**, 41, 2884-9	4.3	2
25	Monophosphate tungsten bronzes with pentagonal tunnels: reinvestigation through the peephole of the superspace. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2013**, 69, 122-36	1.8	2
24	Refinement strategies for fullerene structures: use of local, non-crystallographical point group symmetry. *Zeitschrift F□ Kristallographie*, **2007**, 222, 546-550		2
23	Growth-induced incommensurability observed in the organic co-crystal hexamethylenetetramine resorcinol. *Acta Crystallographica Section B: Structural Science*, **2006**, 62, 1043-50		2
22	A novel high-temperature commensurate superstructure in a natural bariopyrochlore: A structural study by means of a multiphase crystal structure refinement. *Journal of Solid State Chemistry*, **2006**, 179, 729-738	3.3	2
21	Crenel Functions and Aperiodic Structure Determinations. *Ferroelectrics*, **2004**, 305, 43-48	0.6	2

20	Modeling the author bias between two on-line computer science citation databases **2005**,		2
19	X-ray diffraction study of the phase transition of K2Mn2(BeF4)3: a new type of low-temperature structure for langbeinites. *Acta Crystallographica Section B: Structural Science*, **2001**, 57, 221-30		2
18	Synthesis, structure determination, and twinning of two new composite compounds in the hexagonal perovskite-like sulfide family: Eu8/7TiS3 and Sr8/7TiS3. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2001**, 216, 541-555	1	2
17	Analysis of the diffraction pattern of a twinned crystal of (3,4;3M4M bis(ethylenedioxo)-2,2M5,5M-tetrathiafulvalene)2.Ag(CN)2. *Acta Crystallographica Section B: Structural Science*, **1995**, 51, 798-802		2
16	Some remarks on the theory of SQUID structures. I. Topology of SQUID structures—A unified picture. *Journal of Low Temperature Physics*, **1980**, 39, 505-552	1.3	2
15	Incommensurately modulated structure of morpholinium tetrafluoroborate and configurational versus chemical entropies at the incommensurate and lock-in phase transitions. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2017**, 73, 836-843	1.8	1
14	Three Years of Developing JANA2000. *Ferroelectrics*, **2004**, 305, 267-271	0.6	1
13	Superspace description of the structure of the suberic acid+urea inclusion compound at room temperature. *Ferroelectrics*, **2001**, 250, 27-30	0.6	1
12	On the use of Fourier methods in the analysis of composite structures. *Acta Crystallographica Section A: Foundations and Advances*, **1993**, 49, 336-341		1
11	PROPERTIES OF CuO BASED SUPERCONDUCTORS. *International Journal of Modern Physics B*, **1987**, 01, 1021-1023	1.1	1
10	Supercell refinement: a cautionary tale. *Acta Crystallographica Section D: Structural Biology*, **2019**, 75, 852-860	5.5	1
9	Solution and Refinement of Magnetic Structures with Jana2006. *Acta Physica Polonica A*, **2016**, 130, 848-851	0.5	1
8	Ultralow thermal conductivity through the interplay of composition and disorder between thick and thin layers of makovickyite structure. *Journal of Materials Chemistry C*, **2021**, 9, 11207-11215	7.1	1
7	Twinning and incommensurate modulation in baumoite, Ba0.5[(UO2)3O8Mo2(OH)3](H2O)~3, the first natural Ba uranyl molybdate. *Mineralogical Magazine*, **2019**, 83, 507-514	1.7	0
6	Strontium hexabromodicadmate(II) octahydrate. *Acta Crystallographica Section C: Crystal Structure Communications*, **2003**, 59, i24-6		0
5	Nuclear structures: Twinning and modulation in crystals. *EPJ Web of Conferences*, **2017**, 155, 00003	0.3	
4	The use of crenel functions in the description of the hexagonal perovskite-like A1+xBX3 oxides and sulfides. *Ferroelectrics*, **2001**, 250, 53-58	0.6	
3	The modulated and composite model descriptions of La2Co1.7. *Ferroelectrics*, **2001**, 250, 115-119	0.6	

2 Structure determination of Cs0.864Rb1.136SeO4. *Phase Transitions*, **1994**, 51, 239-247 1.3

1 Measurement of noise in two RF SQUID systems. *European Physical Journal D*, **1984**, 34, 712-719