

Bryan C Chakoumakos

List of Publications by Year in descending order

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192
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23567

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202
all docs

202
docs citations

202
times ranked

10639
citing authors

#	ARTICLE	IF	CITATIONS
1	Filled skutterudite antimonides: ϵ Electron crystals and phonon glasses. Physical Review B, 1997, 56, 15081-15089.	3.2	787
2	Localized vibrational modes in metallic solids. Nature, 1998, 395, 876-878.	27.8	532
3	Structural, magnetic, thermal, and transport properties of $X_8Ga_{16}Ge_{30}$ ($X=Eu, Sr, Ba$) single crystals. Physical Review B, 2001, 63, .	3.2	432
4	Direct evidence of a zigzag spin-chain structure in the honeycomb lattice: A neutron and x-ray diffraction investigation of single-crystal $NaIrO_2$. Physical Review B, 2012, 85, .	3.2	318
5	Crystal Structure Refinements of Zircon-Type MVO_4 ($M = Sc, Y, Ce, Pr, Nd, Tb, Ho, Er, Tm, Yb, Lu$). Journal of Solid State Chemistry, 1994, 109, 197-202.	2.9	300
6	Thermoelectric properties of thallium-filled skutterudites. Physical Review B, 2000, 61, 2475-2481.	3.2	287
7	Low-temperature crystal and magnetic structure of $NaIrO_2$. Physical Review B, 2016, 93, .	3.2	270
8	Systematics of the pyrochlore structure type, ideal $A_2B_2X_6Y$. Journal of Solid State Chemistry, 1984, 53, 120-129.	2.9	270
9	Temperature Dependence of Cation Distribution and Oxidation State in Magnetic $Mn^{2+}Fe$ Ferrite Nanocrystals. Journal of the American Chemical Society, 1998, 120, 1800-1804.	13.7	266
10	Phase transitions in perovskite at elevated temperatures - a powder neutron diffraction study. Journal of Physics Condensed Matter, 1999, 11, 1479-1488.	1.8	259
11	Excitations in the field-induced quantum spin liquid state of \hat{I}_{\pm} - $RuCl_3$. Npj Quantum Materials, 2018, 3, .	5.2	254
12	High-temperature phase transitions in $SrZrO_3$. Physical Review B, 1999, 59, 4023-4027.	3.2	240
13	Neutron powder diffraction study of rhombohedral rare-earth aluminates and the rhombohedral to cubic phase transition. Journal of Physics Condensed Matter, 2000, 12, 349-365.	1.8	218
14	A Mixed Alkali Metal Titanate with the Lepidocrocite-like Layered Structure. Preparation, Crystal Structure, Protonic Form, and Acid-Base Intercalation Properties. Chemistry of Materials, 1998, 10, 4123-4128.	6.7	214
15	Synthesis of superparamagnetic $MgFe_2O_4$ nanoparticles by coprecipitation. Journal of Magnetism and Magnetic Materials, 1999, 194, 1-7.	2.3	212
16	Alpha-Decay-Induced Fracturing in Zircon: The Transition from the Crystalline to the Metamict State. Science, 1987, 236, 1556-1559.	12.6	197
17	Atomic Displacement Parameters and the Lattice Thermal Conductivity of Clathrate-like Thermoelectric Compounds. Journal of Solid State Chemistry, 1999, 146, 528-532.	2.9	186
18	Enhanced current density and extended irreversibility in single-crystal $Bi_2Sr_2Ca_1Cu_2O_8$ via linear defects from heavy ion irradiation. Applied Physics Letters, 1992, 60, 2306-2308.	3.3	180

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19	CO ₂ Hydrate: Synthesis, Composition, Structure, Dissociation Behavior, and a Comparison to Structure I CH ₄ Hydrate. Journal of Physical Chemistry B, 2003, 107, 5529-5539.	2.6	178
20	Continuous metal-insulator transition in the pyrochlore Cd ₂ O ₇ . Physical Review B, 2001, 63, .	3.2	171
21	Magnetic and crystal structures of $\text{Sr}_2\text{M}_2\text{O}_7$. A neutron diffraction study. Physical Review B, 2013, 87, .	2.1	170
22	Structural disorder and thermal conductivity of the semiconducting clathrate Sr ₈ Ga ₁₆ Ge ₃₀ . Journal of Alloys and Compounds, 2000, 296, 80-86.	5.5	166
23	Superconductivity and hole doping in Pr _{0.5} Ca _{0.5} Ba ₂ Cu ₃ O _{7-δ} thin films. Physical Review Letters, 1991, 66, 1537-1540.	7.8	162
24	Thermal expansion of LaAlO ₃ and (La,Sr)(Al,Ta)O ₃ , substrate materials for superconducting thin-film device applications. Journal of Applied Physics, 1998, 83, 1979-1982.	2.5	161
25	Synthesis, Crystal Structure, and Ionic Conductivity of a Polycrystalline Lithium Phosphorus Oxynitride with the $\text{Li}_3\text{Li}_3\text{PO}_4$ Structure. Journal of Solid State Chemistry, 1995, 115, 313-323.	2.9	157
26	High-temperature phase transitions in SrHfO ₃ . Physical Review B, 1999, 60, 2972-2975.	3.2	141
27	Magnetic, transport, and structural properties of Fe _{1-x} Si _x . Physical Review B, 1994, 50, 8207-8213.	3.2	133
28	Structural disorder and magnetism of the semiconducting clathrate Eu ₈ Ga ₁₆ Ge ₃₀ . Journal of Alloys and Compounds, 2001, 322, 127-134.	5.5	112
29	Superconductivity in SrCuO ₂ -BaCuO ₂ Superlattices: Formation of Artificially Layered Superconducting Materials. Science, 1994, 265, 2074-2077.	12.6	107
30	Four-circle single-crystal neutron diffractometer at the High Flux Isotope Reactor. Journal of Applied Crystallography, 2011, 44, 655-658.	4.5	97
31	Giant magnetoelectric effects achieved by tuning spin cone symmetry in Y-type hexaferrites. Nature Communications, 2017, 8, 519.	12.8	97
32	The Metamict State. MRS Bulletin, 1987, 12, 58-66.	3.5	92
33	Structural and crystal chemical properties of rare-earth titanate pyrochlores. Journal of Alloys and Compounds, 2014, 605, 63-70.	5.5	90
34	Structural phase transition of the spinel-type oxide LiMn ₂ O ₄ . Solid State Ionics, 1998, 109, 35-41.	2.7	89
35	Alpha-recoil damage in zirconolite (CaZrTi ₂ O ₇). Journal of Materials Research, 1986, 1, 564-576.	2.6	87
36	Characterization and superconducting properties of phases in the Bi _{2-x} Sr _x CuO system. Journal of Materials Research, 1989, 4, 767-780.	2.6	87

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37	Structural Characterization and Thermal Conductivity of Type-I Tin Clathrates. <i>Chemistry of Materials</i> , 2000, 12, 1947-1953.	6.7	87
38	Effect of temperature and hydrogen concentration on the lattice parameter of beta titanium. <i>Materials Research Bulletin</i> , 2001, 36, 1431-1440.	5.2	86
39	Thermoelectric and optical properties of the filled skutterudite YbFe ₄ Sb ₁₂ . <i>Physical Review B</i> , 2000, 61, 4608-4614.	3.2	85
40	Observation of phonon softening at the superconducting transition in Bi ₂ Sr ₂ CaCu ₂ O ₈ . <i>Physical Review Letters</i> , 1990, 65, 2712-2715.	7.8	84
41	Structural investigations of several LnVO ₄ compounds. <i>Inorganica Chimica Acta</i> , 1996, 248, 85-88.	2.4	83
42	Disparate atomic displacements in skutterudite-type LaFe ₃ CoSb ₁₂ , a model for thermoelectric behavior. <i>Acta Crystallographica Section B: Structural Science</i> , 1999, 55, 341-347.	1.8	77
43	The IMAGINE instrument: first neutron protein structure and new capabilities for neutron macromolecular crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 2157-2160.	2.5	73
44	The high-resolution powder diffractometer at the high flux isotope reactor. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 531-535.	2.3	72
45	Synthesis and neutron powder diffraction study of the superconductor HgBa ₂ Ca ₂ Cu ₃ O ₈ + $\hat{1}$ by Tl substitution. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 243, 201-206.	1.2	71
46	Thermoelectric properties of Tl ₂ SnTe ₅ and Tl ₂ GeTe ₅ . <i>Applied Physics Letters</i> , 1999, 74, 3794-3796.	3.3	71
47	Direct Experimental Evidence for Atomic Tunneling of Europium in Crystalline Eu ₈ Ca ₁₆ Ge ₃₀ . <i>Physical Review Letters</i> , 2006, 97, 017401.	7.8	70
48	Synthesis and characterization of a new structure of gas hydrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6060-6064.	7.1	70
49	Effects of oxygen and strontium vacancies on the superconductivity of single crystals of Bi ₂ Sr ₂ xCuO ₆ y. <i>Physical Review B</i> , 1989, 40, 6872-6877.	3.2	69
50	Interanionic O ²⁻ H ⁺ ... \hat{a} ... \hat{a} ...O Interactions: The Charge Density Point of View. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 2719-2722.	13.8	67
51	Zero-dimensional Cs ₄ EuX ₆ (X = Br, I) all-inorganic perovskite single crystals for gamma-ray spectroscopy. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6647-6655.	5.5	66
52	Neutron diffraction study of occupancy and positional order of oxygen ions in phase stabilized cubic bismuth oxides. <i>Solid State Ionics</i> , 2001, 138, 293-304.	2.7	65
53	Hardness and elastic modulus of zircon as a function of heavy-particle irradiation dose: In situ $\hat{1}$ -decay event damage. <i>Radiation Effects and Defects in Solids</i> , 1991, 118, 393-403.	1.2	63
54	Existence of Ferroelectric Ice in the Universe. <i>Astrophysical Journal</i> , 2006, 652, L57-L60.	4.5	63

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55	Origin of the phase transition in IrTe_2 : Structural modulation and local bonding instability. <i>Physical Review B</i> , 2013, 88, .	3.2	62
56	Vortex fluctuations, magnetic penetration depth, and H_{c2} in Hg- and Tl-based high- T_c superconductors. <i>Physical Review B</i> , 1993, 48, 14031-14034.	3.2	61
57	Epitaxial growth of single-crystal $\text{Ca}_{1-x}\text{Sr}_x\text{CuO}_2$ thin films by pulsed laser deposition. <i>Applied Physics Letters</i> , 1993, 62, 1679-1681.	3.3	61
58	When does a crystal conduct heat like a glass?. <i>Philosophical Magazine Letters</i> , 2000, 80, 807-812.	1.2	59
59	Neutron powder diffraction studies as a function of temperature of structure II hydrate formed from propane. <i>Canadian Journal of Physics</i> , 2003, 81, 431-438.	1.1	57
60	Chapter 1 Use of atomic displacement parameters in thermoelectric materials research. <i>Semiconductors and Semimetals</i> , 2001, 70, 1-36.	0.7	56
61	Novel synthesis process and structure refinements of $\text{Li}_4\text{Mn}_5\text{O}_{12}$ for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 1997, 68, 613-617.	7.8	54
62	Phonons and superconductivity in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. <i>Physical Review Letters</i> , 1992, 69, 2272-2275.	7.8	53
63	Theoretical and Experimental Study of Relaxations in Al_3Ti and Al_3Zr Ordered Phases. <i>Physical Review Letters</i> , 1995, 74, 4955-4958.	7.8	51
64	Weakly ($x=0$) and randomly ($x=0.033$) coupled Ising antiferromagnetic planes in $(\text{Li}_{1-x}\text{Fe}_x)\text{NiPO}_4$ compounds. <i>Physical Review B</i> , 1999, 60, 1100-1110.	3.2	50
65	Site Mixing for Engineering Magnetic Topological Insulators. <i>Physical Review X</i> , 2021, 11, .	8.9	50
66	Symmetry-lowering lattice distortion at the spin reorientation in MnBi single crystals. <i>Physical Review B</i> , 2014, 90, .	3.2	49
67	Theoretical molecular orbital study of silanol-water interactions. <i>The Journal of Physical Chemistry</i> , 1986, 90, 996-998.	2.9	47
68	Refinement of the Structures of the Layer Silicates $\text{MCuSi}_4\text{O}_{10}$ ($M = \text{Ca}, \text{Sr}, \text{Ba}$) by Rietveld Analysis of Neutron Powder Diffraction Data. <i>Journal of Solid State Chemistry</i> , 1993, 103, 105-113.	2.9	46
69	Effects of composition and processing on the superconductivity of $\text{La}_{1+z}\text{Ba}_{2-z}\text{Cu}_3\text{O}_y$. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 231, 80-90.	1.2	46
70	Low-Temperature Structure and Dynamics of Brucite. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9458-9462.	2.6	46
71	Magnetic properties of bio-synthesized zinc ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 3043-3048.	2.3	46
72	Structural, magnetic, and transport properties of $\text{La}_2\text{Cu}_{1-x}\text{Li}_x\text{O}_4$. <i>Physical Review B</i> , 1996, 54, 12014-12017.	3.2	45

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73	Transport and structural properties of $\text{Pr}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films grown by pulsed-laser deposition. <i>Physical Review B</i> , 1994, 49, 4182-4188.	3.2	43
74	A suite-level review of the neutron single-crystal diffraction instruments at Oak Ridge National Laboratory. <i>Review of Scientific Instruments</i> , 2018, 89, 092802.	1.3	43
75	Neutron powder diffraction study of the superconducting quaternary intermetallic compound $\text{YNi}_2\text{B}_2\text{C}$. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 227, 143-150.	1.2	42
76	Crystal Chemistry of $\text{HgBa}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+2+\delta}$ ($n = 1, 2, 3, 4$) Superconductors. <i>Journal of Solid State Chemistry</i> , 1996, 122, 221-230.	2.9	42
77	Comparison of crystal structure parameters of natural and synthetic apatites from neutron powder diffraction. <i>Journal of Materials Research</i> , 2001, 16, 2600-2606.	2.6	42
78	Structure and Thermal Expansivity of Tetrahydrofuran Deuterate Determined by Neutron Powder Diffraction. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6026-6031.	2.6	42
79	Structure symmetry determination and magnetic evolution in $\text{Sr}_2\text{Ir}_{1-x}\text{R}_x\text{O}_4$. <i>Physical Review B</i> , 2015, 92, .	3.2	42
80	Refinement of the structures of $\text{Sr}_3\text{Al}_2\text{O}_6$ and the hydrogarnet $\text{Sr}_3\text{Al}_2(\text{O}_4\text{D}_4)_3$ by Rietveld analysis of neutron powder diffraction data. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1992, 48, 414-419.	0.4	39
81	Crystal Chemical Constraints on the Formation of Actinide Pyrochlores. <i>Materials Research Society Symposia Proceedings</i> , 1984, 44, 641.	0.1	38
82	Hole filling and hole creation in the superconducting compounds $\text{Bi}_2\text{Sr}_2\text{R}_x\text{CuO}_{6+y}$ ($R = \text{La, Pr, Nd, and Tl}$). <i>Physical Review B</i> , 1993, 47, 10441-10446.	3.2	38
83	Structure Refinement of $\text{Li}_4\text{Mn}_5\text{O}_{12}$ with Neutron and X-Ray Powder Diffraction Data. <i>Journal of Solid State Chemistry</i> , 1997, 130, 74-80.	2.9	37
84	Skutterudites: Their structural response to filling. <i>Journal of Alloys and Compounds</i> , 2006, 407, 87-93.	5.5	37
85	ZrFlux growth and characterization of Ce-substituted $\text{Nd}_2\text{B}_4\text{C}$ single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 424, 1-9.	2.3	36
86	Neutron Diffraction Study of the Type I Clathrate $\text{Ba}_8\text{Al}_x\text{Si}_{46-x}$: Site Occupancies, Cage Volumes, and the Interaction between the Guest and the Host Framework. <i>Inorganic Chemistry</i> , 2012, 51, 1805-1812.	4.0	35
87	Quaternary Iodide $\text{K}(\text{Ca,Sr})_3\text{Eu}_2$ Single-Crystal Scintillators for Radiation Detection: Crystal Structure, Electronic Structure, and Optical and Scintillation Properties. <i>Advanced Optical Materials</i> , 2016, 4, 1518-1532.	7.3	35
88	Powder neutron diffraction studies of a carbonate fluorapatite. <i>Journal of Materials Research</i> , 2000, 15, 511-517.	2.6	34
89	The amblygonite $(\text{LiAlPO}_4)_m$ -montebrasite $(\text{LiAlPO}_4)_n\text{OH}$ solid solution: A combined powder and single-crystal neutron diffraction and solid-state ^6Li MAS, CP MAS, and REDOR NMR study. <i>American Mineralogist</i> , 2003, 88, 195-210.	1.9	33
90	Sturgeon and paddlefish (Acipenseridae) sagittal otoliths are composed of the calcium carbonate polymorphs vaterite and calcite. <i>Journal of Fish Biology</i> , 2017, 90, 549-558.	1.6	33

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91	In-situ growth of epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ and $\text{Bi}_2\text{Sr}_2\text{CuO}_6$ films by pulsed laser ablation. Applied Physics Letters, 1993, 63, 409-411.	3.3	32
92	Neutron diffraction study of the magnetic structures of CeMn_2Ge_2 and CeMn_2Si_2 . Journal of Applied Physics, 1996, 79, 5398.	2.5	32
93	Spin Reorientation in $\text{TlFe}_{1.6}\text{Se}_2$. Complete Vacancy Ordering. Physical Review Letters, 2012, 109, 077003.	1.8	32
94	Spin-valley locking and bulk quantum Hall effect in a noncentrosymmetric Dirac semimetal BaMnSb_2 . Nature Communications, 2021, 12, 4062.	12.8	32
95	Insights into the structure of mixed CO_2/CH_4 in gas hydrates. American Mineralogist, 2015, 100, 1203-1208.	1.9	31
96	Anomalous transport and structural properties of $\text{Sr}_1-x\text{CuO}_2$ thin films. Physica C: Superconductivity and Its Applications, 1993, 217, 146-150.	1.2	30
97	Neutron Diffraction Study of Structure I and Structure II Trimethylene Oxide Clathrate Deuterate. Journal of Physical Chemistry B, 2003, 107, 6046-6050.	2.6	30
98	Significance of otolith calcium carbonate crystal structure diversity to microchemistry studies. Reviews in Fish Biology and Fisheries, 2019, 29, 569-588.	4.9	29
99	Neutron Instruments for Research in Coordination Chemistry. European Journal of Inorganic Chemistry, 2019, 2019, 1065-1089.	2.0	29
100	Temperature-dependent single-crystal neutron diffraction study of natural chondrodite and clinohumites. American Mineralogist, 2001, 86, 981-989.	1.9	28
101	Low temperature transport and structural properties of misch-metal-filled skutterudites. Journal of Applied Physics, 2007, 102, 083702.	2.5	28
102	Soft antiphase tilt of oxygen octahedra in the hybrid improper multiferroic Ca_3O_7 . Physical Review B, 2018, 97, .	3.2	27
103	DEMAND, a Dimensional Extreme Magnetic Neutron Diffractometer at the High Flux Isotope Reactor. Crystals, 2019, 9, 5.	2.2	27
104	$\text{SrCuO}_2/(\text{Sr,Ca})\text{CuO}_2$ superlattice growth by pulsed laser deposition. Applied Physics Letters, 1994, 65, 2869-2871.	3.3	26
105	A novel germanate, $\text{Cu}_2\text{Fe}_2\text{Ge}_4\text{O}_{13}$, with a four tetrahedra oligomer. Journal of Solid State Chemistry, 2003, 176, 175-179.	2.9	26
106	Hardness and elastic modulus of zircon as a function of heavy-particle irradiation dose. Radiation Effects and Defects in Solids, 1994, 132, 131-141.	1.2	25
107	High-pressure neutron diffraction study on H^D isotope effects in brucite. Physics and Chemistry of Minerals, 2010, 37, 741-749.	0.8	25
108	Empirically testing vaterite structural models using neutron diffraction and thermal analysis. Scientific Reports, 2016, 6, 36799.	3.3	25

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109	Filled Skutterudite Antimonides: Validation of the Electron-Crystal Phonon-Glass Approach to New Thermoelectric Materials. Materials Research Society Symposia Proceedings, 1997, 478, 199.	0.1	23
110	Structural and crystal chemical properties of alkali rare-earth double phosphates. Journal of Alloys and Compounds, 2016, 655, 253-265.	5.5	22
111	Ru ₃ Sn ₇ with the Ir ₃ Ge ₇ structure-type. Journal of Alloys and Compounds, 1998, 281, 157-159.	5.5	21
112	Unusual phase transitions and magnetoelastic coupling in TlFe _{1.6} Se ₂ single crystals. Physical Review B, 2011, 83, .	3.2	21
113	Polymorphism, phase transitions, and thermal expansion of K ₃ Lu(PO ₄) ₂ . Journal of Alloys and Compounds, 2014, 588, 182-189.	5.5	21
114	Temperature dependence of polyhedral cage volumes in clathrate hydrates. Canadian Journal of Physics, 2003, 81, 183-189.	1.1	20
115	Growth mechanisms and superconductivity of ultrathin Y ₁ Ba ₂ Cu ₃ O _{7-δ} epitaxial films on (001) MgO substrates. Applied Physics Letters, 1993, 62, 3363-3365.	3.3	19
116	Cerium Chloride-methanol Adduct Crystals, CeCl ₃ (CH ₃ OH) ₄ : Preparation, Crystallography, And Scintillation Properties. Crystal Growth and Design, 2008, 8, 2070-2072.	3.0	19
117	Crystal Growth and Elemental Homogeneity of the Multicomponent Rare-Earth Garnet (Lu _{1/6} Y _{1/6} Ho _{1/6} Dy _{1/6} Tb _{1/6} Gd _{1/6}) ₃ Al ₃ Crystal Growth and Design, 2020, 20, 6769-6776.	3.0	19
118	Noncollinear magnetic structure and magnetoelectric coupling in buckled honeycomb Co_4O_9 : A single-crystal neutron diffraction study. Physical Review B, 2020, 102, .	3.2	18
119	Influence of ontogenetic development, temperature, and pCO ₂ on otolith calcium carbonate polymorph composition in sturgeons. Scientific Reports, 2021, 11, 13878.	3.3	18
120	A sapphire cell for high-pressure, low-temperature neutron-scattering experiments on gas hydrates. Canadian Journal of Physics, 2003, 81, 381-385.	1.1	17
121	Existence of ferroelectric ice on planets-A neutron diffraction study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 279-281.	1.6	17
122	WAND2-A versatile wide angle neutron powder/single crystal diffractometer. Review of Scientific Instruments, 2018, 89, 092801.	1.3	17
123	Model-free reconstruction of magnetic correlations in frustrated magnets. IUCr, 2018, 5, 410-416.	2.2	17
124	Magnetism in BaCoS ₂ . Journal of Applied Physics, 1997, 81, 4620-4622.	2.5	16
125	The existence of memory effect on hydrogen ordering in ice: The effect makes ice attractive. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	16
126	Spin-lattice coupling mediated multiferroicity in D_2O . Physical Review B, 2016, 94, .	3.2	15

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127	Epitaxial growth of Ba _{1-x} KxBiO ₃ thin films by pulsed laser deposition. Applied Physics Letters, 1993, 62, 414-416.	3.3	14
128	H/D isotope effects in brucite at low temperatures. American Mineralogist, 2013, 98, 1-6.	1.9	14
129	Crystal structure, electronic structure, temperature-dependent optical and scintillation properties of CsCe ₂ Br ₇ . Journal of Materials Chemistry C, 2015, 3, 11366-11376.	5.5	14
130	An Investigation of Uranium L-Edges of Metamict and Annealed Betafite. Materials Research Society Symposia Proceedings, 1985, 50, 387.	0.1	13
131	Atomic Displacement Parameters: A Useful Tool in the Search for New Thermoelectric Materials?. Materials Research Society Symposia Proceedings, 1998, 545, 13.	0.1	13
132	Connections between Crystallographic Data and New Thermoelectric Compounds. Materials Research Society Symposia Proceedings, 2000, 626, 711.	0.1	13
133	Intertwined Magnetic and Nematic Orders in Semiconducting $KFe_{0.8}Mn_{0.2}O_2$. Physical Review Letters, 2019, 122, 087201.	7.8	13
134	Crystal structure, electronic structure, optical and scintillation properties of self-activated Cs ₄ YbI ₆ . Journal of Luminescence, 2018, 201, 460-465.	3.1	12
135	An X-ray Absorption Spectroscopy Investigation of the Ta Site in Alpha-Recoil Damaged Natural Pyrochlores. Materials Research Society Symposia Proceedings, 1986, 84, 645.	0.1	11
136	Single-crystal CeCl ₃ (CH ₃ OH) ₄ : A new metal-organic cerium chloride methanol adduct for scintillator applications. Applied Physics Letters, 2008, 93, .	3.3	11
137	Evolution of the nuclear and magnetic structures of TlFe _{1.6} Se ₂ with temperature. Physical Review B, 2012, 85, .	3.2	11
138	Combined X-ray and neutron diffraction Rietveld refinement in iron-substituted nano-hydroxyapatite. Journal of Materials Science, 2013, 48, 3535-3545.	3.7	10
139	Magnetic correlations and structure in bixbyite across the spin-glass transition. Physical Review B, 2019, 100, .	3.2	10
140	Structural evolution of the amorphous solids produced by heating crystalline MgHPO ₄ · 3H ₂ O. Journal of Materials Research, 1992, 7, 2646-2649.	2.6	9
141	Influence of neutron irradiation damage on the equilibrium properties of the polycrystalline Bi _{1.8} Pb _{0.3} Sr ₂ Ca ₂ Cu ₃ O ₁₀ superconductor. Physical Review B, 1995, 51, 8551-8559.	3.2	9
142	Effect of Alloy Composition on the Structure of Zr Based Metal Alloys. Materials Research Society Symposia Proceedings, 1999, 575, 193.	0.1	9
143	Neutron diffraction from aligned stacks of lipid bilayers using the WAND instrument. Journal of Applied Crystallography, 2018, 51, 235-241.	4.5	9
144	Otoliths of subadult Lake Sturgeon <i>Acipenser fulvescens</i> contain aragonite and vaterite calcium carbonate polymorphs. Journal of Fish Biology, 2019, 94, 810-814.	1.6	9

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145	Characterization of Radiation Damage at the Nb Site in Natural Pyrochlores and Samarskites by X-Ray Absorption Spectroscopy. Materials Research Society Symposia Proceedings, 1988, 127, 261.	0.1	8
146	The effect of Ca substitution on the structure and the Raman active phonons in. Journal of Physics Condensed Matter, 1998, 10, 2515-2524.	1.8	8
147	Inter cage guest correlations and guest clusters in high-pressure clathrate hydrates. Physical Review B, 2009, 80, .	3.2	8
148	A New Scintillator for Fast Neutron Detection: Single-Crystal $\text{CeCl}_3 \cdot 7\text{H}_2\text{O}$. Journal of Applied Physics, 2010, 108, 043105.	2.0	8
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