

Bryan C Chakoumakos

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

184 papers	10,052 citations	53 h-index	96 g-index
202 ext. papers	10,944 ext. citations	4.5 avg, IF	5.77 L-index

#	Paper	IF	Citations
184	Quantifying fish otolith mineralogy for trace-element chemistry studies.. <i>Scientific Reports</i> , 2022 , 12, 2727	4.9	1
183	: reverse Monte Carlo refinement of diffuse scattering and correlated disorder from single crystals.. <i>Journal of Applied Crystallography</i> , 2021 , 54, 1867-1885	3.8	1
182	Site Mixing for Engineering Magnetic Topological Insulators. <i>Physical Review X</i> , 2021 , 11,	9.1	14
181	Probing Phase Transitions and Magnetism in Minerals with Neutrons. <i>Elements</i> , 2021 , 17, 181-188	3.8	4
180	Morphology and composition of Goldeye (Hiodontidae; Hiodon alosoides) otoliths. <i>Journal of Morphology</i> , 2021 , 282, 511-519	1.6	1
179	Spin-valley locking and bulk quantum Hall effect in a noncentrosymmetric Dirac semimetal BaMnSb. <i>Nature Communications</i> , 2021 , 12, 4062	17.4	4
178	Influence of ontogenetic development, temperature, and pCO on otolith calcium carbonate polymorph composition in sturgeons. <i>Scientific Reports</i> , 2021 , 11, 13878	4.9	6
177	Large spin-driven dielectric response and magnetoelectric coupling in the buckled honeycomb Fe4Nb2O9. <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
176	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 ₅ O ₁₂ . <i>Crystal Growth and Design</i> , 2020 , 20, 6769-6776	3.5	5
175	Noncollinear magnetic structure and magnetoelectric coupling in buckled honeycomb Co4Nb2O9: A single-crystal neutron diffraction study. <i>Physical Review B</i> , 2020 , 102,	3.3	2
174	Magnetic correlations and structure in bixbyite across the spin-glass transition. <i>Physical Review B</i> , 2019 , 100,	3.3	6
173	Texture Analysis of Polycrystalline Vaterite Spherulites from Lake Sturgeon Otoliths. <i>Scientific Reports</i> , 2019 , 9, 7151	4.9	0
172	Significance of otolith calcium carbonate crystal structure diversity to microchemistry studies. <i>Reviews in Fish Biology and Fisheries</i> , 2019 , 29, 569-588	6	10
171	Otoliths of sub-adult Lake Sturgeon Acipenser fulvescens contain aragonite and vaterite calcium carbonate polymorphs. <i>Journal of Fish Biology</i> , 2019 , 94, 810-814	1.9	6
170	Intertwined Magnetic and Nematic Orders in Semiconducting KFe _{0.8} Ag _{1.2} Te ₂ . <i>Physical Review Letters</i> , 2019 , 122, 087201	7.4	8
169	DEMAND, a Dimensional Extreme Magnetic Neutron Diffractometer at the High Flux Isotope Reactor. <i>Crystals</i> , 2019 , 9, 5	2.3	15
168	Neutron Instruments for Research in Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1065-1089	2.3	18

167	Excitations in the field-induced quantum spin liquid state of RuCl_3 . <i>Npj Quantum Materials</i> , 2018 , 3, 5 160
166	Neutron diffraction from aligned stacks of lipid bilayers using the WAND instrument. <i>Journal of Applied Crystallography</i> , 2018 , 51, 235-241 3.8 9
165	Soft antiphase tilt of oxygen octahedra in the hybrid improper multiferroic $\text{Ca}_3\text{Mn}_{1.9}\text{Ti}_{0.1}\text{O}_7$. <i>Physical Review B</i> , 2018 , 97, 3.3 19
164	Discovery of New Compounds and Scintillators of the A_4BX_6 Family: Crystal Structure, Thermal, Optical, and Scintillation Properties. <i>Crystal Growth and Design</i> , 2018 , 18, 5220-5230 3.5 5
163	Zero-dimensional Cs_4EuX_6 (X = Br, I) all-inorganic perovskite single crystals for gamma-ray spectroscopy. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6647-6655 7.1 40
162	Model-free reconstruction of magnetic correlations in frustrated magnets. <i>IUCrJ</i> , 2018 , 5, 410-416 4.7 10
161	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 1.7 22
160	WAND-A versatile wide angle neutron powder/single crystal diffractometer. <i>Review of Scientific Instruments</i> , 2018 , 89, 092801 1.7 9
159	$\text{Sr}_3\text{Ir}_2\text{O}_7\text{F}_2$: Topochemical conversion of a relativistic Mott state into a spin-orbit driven band insulator. <i>Physical Review B</i> , 2018 , 98, 3.3 2
158	Crystal structure, electronic structure, optical and scintillation properties of self-activated Cs_4YbI_6 . <i>Journal of Luminescence</i> , 2018 , 201, 460-465 3.8 8
157	Giant magnetoelectric effects achieved by tuning spin cone symmetry in Y-type hexaferrites. <i>Nature Communications</i> , 2017 , 8, 519 17.4 63
156	2Flux growth and characterization of Ce-substituted $\text{Nd}_2\text{Fe}_{14}\text{B}$ single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 434, 1-9 2.8 25
155	Structural and crystal chemical properties of alkali rare-earth double phosphates. <i>Journal of Alloys and Compounds</i> , 2016 , 655, 253-265 5.7 12
154	Low-temperature crystal and magnetic structure of RuCl_3 . <i>Physical Review B</i> , 2016 , 93, 3.3 174
153	Quaternary Iodide $\text{K}(\text{Ca},\text{Sr})\text{I}_3\text{:Eu}^{2+}$ Single-Crystal Scintillators for Radiation Detection: Crystal Structure, Electronic Structure, and Optical and Scintillation Properties. <i>Advanced Optical Materials</i> , 2016 , 4, 1518-1532 8.1 30
152	Empirically testing vaterite structural models using neutron diffraction and thermal analysis. <i>Scientific Reports</i> , 2016 , 6, 36799 4.9 21
151	Spin-lattice coupling mediated multiferroicity in $(\text{ND}_4)_2\text{FeCl}_5\text{D}_2\text{O}$. <i>Physical Review B</i> , 2016 , 94, 3.3 10
150	Investigating Petrologic Indicators of Magmatic Processes in Volcanic Rocks. Petalite under pressure: Elastic behavior and phase stability. <i>American Mineralogist</i> , 2015 , 100, 714-721 2.9 4

149	Crystal structure, electronic structure, temperature-dependent optical and scintillation properties of CsCe ₂ Br ₇ . <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11366-11376	7.1	12
148	Structure symmetry determination and magnetic evolution in Sr ₂ Ir _{1-x} Rh _x O ₄ . <i>Physical Review B</i> , 2015 , 92,	3.3	32
147	Insights into the structure of mixed CO ₂ /CH ₄ in gas hydrates. <i>American Mineralogist</i> , 2015 , 100, 1203-1208	2.9	27
146	Polymorphism, phase transitions, and thermal expansion of K ₃ Lu(PO ₄) ₂ . <i>Journal of Alloys and Compounds</i> , 2014 , 588, 182-189	5.7	17
145	Symmetry-lowering lattice distortion at the spin reorientation in MnBi single crystals. <i>Physical Review B</i> , 2014 , 90,	3.3	38
144	Structural and crystal chemical properties of rare-earth titanate pyrochlores. <i>Journal of Alloys and Compounds</i> , 2014 , 605, 63-70	5.7	70
143	Combined X-ray and neutron diffraction Rietveld refinement in iron-substituted nano-hydroxyapatite. <i>Journal of Materials Science</i> , 2013 , 48, 3535-3545	4.3	8
142	Origin of the phase transition in IrTe ₂ : Structural modulation and local bonding instability. <i>Physical Review B</i> , 2013 , 88,	3.3	51
141	The IMAGINE instrument: first neutron protein structure and new capabilities for neutron macromolecular crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 2157-60		60
140	H/D isotope effects in brucite at low temperatures. <i>American Mineralogist</i> , 2013 , 98, 1-6	2.9	8
139	Magnetic and crystal structures of Sr ₂ IrO ₄ : A neutron diffraction study. <i>Physical Review B</i> , 2013 , 87,	3.3	140
138	National School on Neutron and X-ray Scattering. <i>Synchrotron Radiation News</i> , 2013 , 26, 9-12	0.6	1
137	The observation of scintillation in a hydrated inorganic compound: CeCl ₃ ·6H ₂ O. <i>Applied Physics Letters</i> , 2013 , 103, 141909	3.4	4
136	Neutron diffraction study of the type I clathrate Ba ₈ Al _(x) Si _(46-x) : site occupancies, cage volumes, and the interaction between the guest and the host framework. <i>Inorganic Chemistry</i> , 2012 , 51, 1805-12	5.1	33
135	New family of cerium halide based materials: CeX ₃ ·nROH compounds containing planes, chains, and tetradecanuclear rings. <i>Inorganic Chemistry</i> , 2012 , 51, 10503-11	5.1	6
134	Spin reorientation in TlFe _{1.6} Se ₂ with complete vacancy ordering. <i>Physical Review Letters</i> , 2012 , 109, 077003	7.4	25
133	New crystal structural families of lanthanide chloride ·Alcohol/water complexes. <i>Inorganica Chimica Acta</i> , 2012 , 384, 23-28	2.7	6
132	Evolution of the nuclear and magnetic structures of TlFe _{1.6} Se ₂ with temperature. <i>Physical Review B</i> , 2012 , 85,	3.3	11

131	Direct evidence of a zigzag spin-chain structure in the honeycomb lattice: A neutron and x-ray diffraction investigation of single-crystal Na ₂ IrO ₃ . <i>Physical Review B</i> , 2012 , 85,	3.3	271
130	The existence of memory effect on hydrogen ordering in ice: The effect makes ice attractive. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	13
129	Magnetic properties of bio-synthesized zinc ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2011 , 323, 3043-3048	2.8	35
128	Four-circle single-crystal neutron diffractometer at the High Flux Isotope Reactor. <i>Journal of Applied Crystallography</i> , 2011 , 44, 655-658	3.8	83
127	Unusual phase transitions and magnetoelastic coupling in TlFe _{1.6} Se ₂ single crystals. <i>Physical Review B</i> , 2011 , 83,	3.3	21
126	A New Scintillator for Fast Neutron Detection: Single-Crystal $\text{CeCl}_3(\text{CH}_3\text{OH})_4$. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 1692-1696	1.7	7
125	High-pressure neutron diffraction study on HD isotope effects in brucite. <i>Physics and Chemistry of Minerals</i> , 2010 , 37, 741-749	1.6	19
124	The high-resolution powder diffractometer at the high flux isotope reactor. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 99, 531-535	2.6	59
123	Intercage guest correlations and guest clusters in high-pressure clathrate hydrates. <i>Physical Review B</i> , 2009 , 80,	3.3	6
122	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, 6060-4	11.5	62
121	Existence of ferroelectric ice on planets: A neutron diffraction study. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 600, 279-281	1.2	16
120	Rare-earth tri-halides methanol-adduct single-crystal scintillators for gamma ray and neutron detection 2009 ,		2
119	Cerium Chloride-methanol Adduct Crystals, CeCl ₃ (CH ₃ OH) ₄ : Preparation, Crystallography, And Scintillation Properties. <i>Crystal Growth and Design</i> , 2008 , 8, 2070-2072	3.5	18
118	Single-crystal CeCl ₃ (CH ₃ OH) ₄ : A new metal-organic cerium chloride methanol adduct for scintillator applications. <i>Applied Physics Letters</i> , 2008 , 93, 244104	3.4	10
117	Low temperature transport and structural properties of misch-metal-filled skutterudites. <i>Journal of Applied Physics</i> , 2007 , 102, 083702	2.5	27
116	Direct experimental evidence for atomic tunneling of europium in crystalline Eu ₈ Ga ₁₆ Ge ₃₀ . <i>Physical Review Letters</i> , 2006 , 97, 017401	7.4	66
115	Existence of Ferroelectric Ice in the Universe. <i>Astrophysical Journal</i> , 2006 , 652, L57-L60	4.7	55
114	Skutterudites: Their structural response to filling. <i>Journal of Alloys and Compounds</i> , 2006 , 407, 87-93	5.7	35

113	Raman spectroscopic studies on structure I and structure II trimethylene oxide hydrate. <i>Canadian Journal of Physics</i> , 2005 , 83, 941-949	1.1	4
112	Structure and Dynamics of Propylene Oxide and Trimethylene Oxide Clathrate Hydrates. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 840, Q2.1.1		
111	The amblygonite (LiAlPO ₄ F)-montebrasite (LiAlPO ₄ OH) solid solution: A combined powder and single-crystal neutron diffraction and solid-state ⁶ Li MAS, CP MAS, and REDOR NMR study. <i>American Mineralogist</i> , 2003 , 88, 195-210	2.9	26
110	A novel germanate, Cu ₂ Fe ₂ Ge ₄ O ₁₃ , with a four tetrahedra oligomer. <i>Journal of Solid State Chemistry</i> , 2003 , 176, 175-179	3.3	21
109	Evidence for pseudo-gap behavior in defect-doped infinite layer (Ca, Sr)CuO ₂ thin films. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 236, 143-150	1.3	
108	Structure and Thermal Expansivity of Tetrahydrofuran Deuterate Determined by Neutron Powder Diffraction. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 6026-6031	3.4	40
107	Neutron Diffraction Study of Structure I and Structure II Trimethylene Oxide Clathrate Deuterate. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 6046-6050	3.4	25
106	CO ₂ Hydrate: Synthesis, Composition, Structure, Dissociation Behavior, and a Comparison to Structure I CH ₄ Hydrate. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5529-5539	3.4	144
105	A sapphire cell for high-pressure, low-temperature neutron-scattering experiments on gas hydrates. <i>Canadian Journal of Physics</i> , 2003 , 81, 381-385	1.1	16
104	Temperature dependence of polyhedral cage volumes in clathrate hydrates. <i>Canadian Journal of Physics</i> , 2003 , 81, 183-189	1.1	18
103	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	48
102	Temperature-dependent single-crystal neutron diffraction study of natural chondrodite and clinohumites. <i>American Mineralogist</i> , 2001 , 86, 981-989	2.9	19
101	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	3.3	52
100	Effect of temperature and hydrogen concentration on the lattice parameter of beta titanium. <i>Materials Research Bulletin</i> , 2001 , 36, 1431-1440	5.1	68
99	Comparison of crystal structure parameters of natural and synthetic apatites from neutron powder diffraction. <i>Journal of Materials Research</i> , 2001 , 16, 2600-2606	2.5	39
98	Chapter 1 Use of atomic displacement parameters in thermoelectric materials research. <i>Semiconductors and Semimetals</i> , 2001 , 70, 1-36	0.6	53
97	Continuous metal-insulator transition in the pyrochlore Cd ₂ Os ₂ O ₇ . <i>Physical Review B</i> , 2001 , 63,	3.3	149
96	Structural disorder and magnetism of the semiconducting clathrate Eu ₈ Ga ₁₆ Ge ₃₀ . <i>Journal of Alloys and Compounds</i> , 2001 , 322, 127-134	5.7	103

95	Structural, magnetic, thermal, and transport properties of X ₈ Ga ₁₆ Ge ₃₀ (X=Eu,Sr,Ba) single crystals. <i>Physical Review B</i> , 2001 , 63,	3.3	397
94	When Does a Crystal Conduct Heat Like a Glass?. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 691, 1		1
93	Interanionic O-H small middle dot small middle dot small middle dot O Interactions: The Charge Density Point of View The Oak Ridge National Laboratory is managed by Lockheed Martin Energy Research Corporation for the US Department of Energy (DE-AC05-96OR22464). Prof. M. Moret and Dr. L. Carlucci are thanked for help in crystallizing large samples suitable for the neutron study.	16.4	55
92	Neutron powder diffraction study of rhombohedral rare-earth aluminates and the rhombohedral to cubic phase transition. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 349-365, 2719-2722	1.8	197
91	Thermoelectric properties of thallium-filled skutterudites. <i>Physical Review B</i> , 2000 , 61, 2475-2481	3.3	257
90	Neutron diffraction and phase evolution of the mechanically alloyed intermetallic compound FeZn ₁₃ . <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000 , 31, 2739-2745	2.3	6
89	Connections between Crystallographic Data and New Thermoelectric Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 626, 711		11
88	When does a crystal conduct heat like a glass?. <i>Philosophical Magazine Letters</i> , 2000 , 80, 807-812	1	53
87	Structural disorder and thermal conductivity of the semiconducting clathrate Sr ₈ Ga ₁₆ Ge ₃₀ . <i>Journal of Alloys and Compounds</i> , 2000 , 296, 80-86	5.7	161
86	Powder neutron diffraction studies of a carbonate fluorapatite. <i>Journal of Materials Research</i> , 2000 , 15, 511-517	2.5	27
85	Thermoelectric and optical properties of the filled skutterudite YbFe ₄ Sb ₁₂ . <i>Physical Review B</i> , 2000 , 61, 4608-4614	3.3	71
84	Structural Characterization and Thermal Conductivity of Type-I Tin Clathrates. <i>Chemistry of Materials</i> , 2000 , 12, 1947-1953	9.6	82
83	Ultrasound Studies of Clathrate Thermoelectrics. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 626, 1331		3
82	High-temperature phase transitions in SrZrO ₃ . <i>Physical Review B</i> , 1999 , 59, 4023-4027	3.3	215
81	High-temperature phase transitions in SrHfO ₃ . <i>Physical Review B</i> , 1999 , 60, 2972-2975	3.3	123
80	Thermoelectric properties of Tl ₂ SnTe ₅ and Tl ₂ GeTe ₅ . <i>Applied Physics Letters</i> , 1999 , 74, 3794-3796	3.4	64
79	Weakly (x=0) and randomly (x=0.033) coupled Ising antiferromagnetic planes in (Li _{1-x} Fe _x)NiPO ₄ compounds. <i>Physical Review B</i> , 1999 , 60, 1100-1110	3.3	46
78	Phase transitions in perovskite at elevated temperatures - a powder neutron diffraction study. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 1479-1488	1.8	219

77	Disparate atomic displacements in skutterudite-type $\text{LaFe}_3\text{CoSb}_{12}$, a model for thermoelectric behavior. <i>Acta Crystallographica Section B: Structural Science</i> , 1999 , 55, 341-347		70
76	Synthesis of superparamagnetic MgFe_2O_4 nanoparticles by coprecipitation. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 194, 1-7	2.8	194
75	Atomic Displacement Parameters and the Lattice Thermal Conductivity of Clathrate-like Thermoelectric Compounds. <i>Journal of Solid State Chemistry</i> , 1999 , 146, 528-532	3.3	169
74	Effect of Alloy Composition on the Structure of Zr Based Metal Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 575, 193		9
73	Localized vibrational modes in metallic solids. <i>Nature</i> , 1998 , 395, 876-878	50.4	486
72	Structural phase transition of the spinel-type oxide LiMn_2O_4 . <i>Solid State Ionics</i> , 1998 , 109, 35-41	3.3	72
71	Ru_3Sn_7 with the Ir_3Ge_7 structure-type. <i>Journal of Alloys and Compounds</i> , 1998 , 281, 157-159	5.7	17
70	Temperature Dependence of Cation Distribution and Oxidation State in Magnetic MnBe Ferrite Nanocrystals. <i>Journal of the American Chemical Society</i> , 1998 , 120, 1800-1804	16.4	235
69	A Mixed Alkali Metal Titanate with the Lepidocrocite-like Layered Structure. Preparation, Crystal Structure, Protonic Form, and Acid-Base Intercalation Properties. <i>Chemistry of Materials</i> , 1998 , 10, 4123-4128	8.6	186
68	The effect of Ca substitution on the structure and the Raman active phonons in. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 2515-2524	1.8	8
67	Thermal expansion of LaAlO_3 and $(\text{La},\text{Sr})(\text{Al},\text{Ta})\text{O}_3$, substrate materials for superconducting thin-film device applications. <i>Journal of Applied Physics</i> , 1998 , 83, 1979-1982	2.5	142
66	Atomic Displacement Parameters: A Useful Tool in the Search for New Thermoelectric Materials?. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 545, 13		12
65	Thermoelectric Properties of Two Ternary Tellurides. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 545, 391		
64	Magnetism in BaCoS_2 . <i>Journal of Applied Physics</i> , 1997 , 81, 4620-4622	2.5	13
63	Low-Temperature Structure and Dynamics of Brucite. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 9458-9462	3.4	35
62	Filled Skutterudite Antimonides: Validation of the Electron-Crystal Phonon-Glass Approach to New Thermoelectric Materials. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 478, 199		17
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	8.9	47
60	Filled skutterudite antimonides: Electron crystals and phonon glasses. <i>Physical Review B</i> , 1997 , 56, 15081-15089	3.3	107

59	Incommensurate fluctuations in Bi ₂ Sr ₂ CaCu ₂ O ₈ . <i>Journal of Superconductivity and Novel Magnetism</i> , 1997 , 10, 389-392		6
58	Structure Refinement of Li ₄ Mn ₅ O ₁₂ with Neutron and X-Ray Powder Diffraction Data. <i>Journal of Solid State Chemistry</i> , 1997 , 130, 74-80	3.3	27
57	Neutron diffraction study of the magnetic structures of CeMn ₂ Ge ₂ and CeMn ₂ Si ₂ . <i>Journal of Applied Physics</i> , 1996 , 79, 5398	2.5	27
56	Formation and properties of novel artificially layered cuprate superconductors using pulsed-laser deposition 1996 ,		2
55	Crystal Chemistry of HgBa ₂ Can _{1-n} Cu _n O _{2n+2} (n = 1, 2, 3, 4) Superconductors. <i>Journal of Solid State Chemistry</i> , 1996 , 122, 221-230	3.3	40
54	Structural investigations of several LnVO ₄ compounds. <i>Inorganica Chimica Acta</i> , 1996 , 248, 85-88	2.7	73
53	Structural disorder and charge transfer in the superconductor (Pb _{0.5} Cu _{0.5})(Sr _{0.5} La _{0.5}) ₂ CuO ₅ + δ . <i>Physica C: Superconductivity and Its Applications</i> , 1996 , 269, 115-123	1.3	4
52	Structural, magnetic, and transport properties of La ₂ Cu _{1-x} Li _x O ₄ . <i>Physical Review B</i> , 1996 , 54, 12014-12017	3.7	39
51	Formation and properties of artificially-layered SrCuO ₂ /BaCuO ₂ superconducting superlattices. <i>Journal of Superconductivity and Novel Magnetism</i> , 1995 , 8, 519-522		2
50	Synthesis and neutron powder diffraction study of the superconductor HgBa ₂ Ca ₂ Cu ₃ O ₈ + δ by Tl substitution. <i>Physica C: Superconductivity and Its Applications</i> , 1995 , 243, 201-206	1.3	61
49	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. <i>Physical Review B</i> , 1995 , 51, 8551-8559	3.3	7
48	Crystal structure systematics from oxide phase diagrams by contouring them with Zoltai's tetrahedral sharing coefficient. <i>Journal of Materials Research</i> , 1995 , 10, 1772-1778	2.5	1
47	Theoretical and experimental study of relaxations in Al ₃ Ti and Al ₃ Zr ordered phases. <i>Physical Review Letters</i> , 1995 , 74, 4955-4958	7.4	41
46	Formation of artificially-Layered Thin-Film Compounds Using Pulsed-Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 388, 57		0
45	Epitaxial Growth of Metal Fluoride Thin Films by Pulsed-Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 397, 259		
44	Synthesis, Crystal Structure, and Ionic Conductivity of a Polycrystalline Lithium Phosphorus Oxynitride with the Li ₃ PO ₄ Structure. <i>Journal of Solid State Chemistry</i> , 1995 , 115, 313-323	3.3	136
43	Hardness and elastic modulus of zircon as a function of heavy-particle irradiation dose:. <i>Radiation Effects and Defects in Solids</i> , 1994 , 132, 131-141	0.9	19
42	Transport and structural properties of Pr _{1-x} Ca _x Ba ₂ Cu ₃ O _{7-δ} thin films grown by pulsed-laser deposition. <i>Physical Review B</i> , 1994 , 49, 4182-4188	3.3	39

41	SrCuO ₂ /(Sr,Ca)CuO ₂ superlattice growth by pulsed-laser deposition. <i>Applied Physics Letters</i> , 1994 , 65, 2869-2871	3-4	23
40	Crystal Structure Refinements of Zircon-Type MVO ₄ (M = Sc, Y, Ce, Pr, Nd, Tb, Ho, Er, Tm, Yb, Lu). <i>Journal of Solid State Chemistry</i> , 1994 , 109, 197-202	3-3	256
39	Effects of composition and processing on the superconductivity of La _{1+z} Ba _{2-z} Cu ₃ O _y . <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 231, 80-90	1-3	42
38	Neutron powder diffraction study of the superconducting quaternary intermetallic compound YNi ₂ B ₂ C. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 227, 143-150	1-3	38
37	Superconductivity in SrCuO ₂ -BaCuO ₂ Superlattices: Formation of Artificially Layered Superconducting Materials. <i>Science</i> , 1994 , 265, 2074-7	33-3	94
36	Magnetic, transport, and structural properties of Fe _{1-x} Ir _x Si. <i>Physical Review B</i> , 1994 , 50, 8207-8213	3-3	117
35	Structural Chemistry of Some Phases in The YC-Ni-B System. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 376, 547		
34	Ionic Conductivities of Lithium Phosphorus Oxynitride Glasses, Polycrystals and Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 369, 445		
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