Lynn A Boatner

List of Publications by Year
in descending order

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		8159	13727
595	24,259	76	129
papers	citations	h-index	g-index

612	612	612	16444
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wide band gap ferromagnetic semiconductors and oxides. Journal of Applied Physics, 2003, 93, 1-13.	1.1	987
2	Chemically sensitive structure-imaging with a scanning transmission electron microscope. Nature, 1988, 336, 565-567.	13.7	638
3	Advances in wide bandgap materials for semiconductor spintronics. Materials Science and Engineering Reports, 2003, 40, 137-168.	14.8	409
4	Ferromagnetism in Mn-implanted ZnO:Sn single crystals. Applied Physics Letters, 2003, 82, 239-241.	1.5	403
5	STM study of the geometric and electronic structure of ZnO()-Zn, ()-O, (), and () surfaces. Surface Science, 2002, 519, 201-217.	0.8	390
6	Radiation damage in zircon and monazite. Geochimica Et Cosmochimica Acta, 1998, 62, 2509-2520.	1.6	330
7	Size effects in the structural phase transition ofVO2nanoparticles. Physical Review B, 2002, 65, .	1.1	329
8	Crystal Structure Refinements of Zircon-Type MVO4 (M = Sc, Y, Ce, Pr, Nd, Tb, Ho, Er, Tm, Yb, Lu). Journal of Solid State Chemistry, 1994, 109, 197-202.	1.4	300
9	Strontium and barium iodide high light yield scintillators. Applied Physics Letters, 2008, 92, .	1.5	299
10	Radiation-induced amorphization of rare-earth titanate pyrochlores. Physical Review B, 2003, 68, .	1.1	296
11	Ion implantation and annealing of crystalline oxides. Materials Science and Engineering Reports, 1989, 4, 41-146.	5.8	257
12	Metallization of vanadium dioxide driven by large phonon entropy. Nature, 2014, 515, 535-539.	13.7	252
13	Ferromagnetism in cobalt-implanted ZnO. Applied Physics Letters, 2003, 83, 5488-5490.	1.5	251
14	Nanocomposite Materials Formed by Ion Implantation. Advanced Materials, 2001, 13, 1431-1444.	11.1	249
15	Spectroscopic ellipsometry of thin film and bulk anatase (TiO2). Journal of Applied Physics, 2003, 93, 9537-9541.	1.1	247
16	Domain formation and strain relaxation in epitaxial ferroelectric heterostructures. Physical Review B, 1994, 49, 14865-14879.	1.1	227
17	Thermochemistry of rare-earth orthophosphates. Journal of Materials Research, 2001, 16, 2623-2633.	1.2	225
18	Scintillators With Potential to Supersede Lanthanum Bromide. IEEE Transactions on Nuclear Science, 2009, 56, 873-880.	1.2	224

#	Article	IF	Citations
19	Analysis of solidification microstructures in Fe-Ni-Cr single-crystal welds. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1990, 21, 1767-1782.	1.4	219
20	The orderâ€“disorder transition in ion-irradiated pyrochlore. Acta Materialia, 2003, 51, 1493-1502.	3.8	215
21	Raman spectra of the rare earth orthophosphates. Journal of Raman Spectroscopy, 1981, 11, 273-278.	1.2	208
22	Optical functions of uniaxial ZnO determined by generalized ellipsometry. Physical Review B, 1998, 58, 3586-3589.	1.1	206
23	Lead-Iron Phosphate Glass: A Stable Storage Medium for High-Level Nuclear Waste. Science, 1984, 226, 45-48.	6.0	194
24	Development of microstructures in Feâ˜15Niâ˜15Cr single crystal electron beam welds. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1989, 20, 1125-1138.	1.4	193
25	Structural investigations of YPO4, ScPO4, and LuPO4. Inorganica Chimica Acta, 1982, 60, 39-43.	1.2	190
26	Synthesis, Structure, and Properties of Monazite, Pretulite, and Xenotime. Reviews in Mineralogy and Geochemistry, 2002, 48, 87-121.	2.2	186
27	Nanocomposites formed by ion implantation: Recent developments and future opportunities. Nuclear Instruments & Methods in Physics Research B, 2001, 178, 7-16.	0.6	175
28	Photoinduced phase transition in VO_2 nanocrystals: ultrafast control of surface-plasmon resonance. Optics Letters, 2005, 30, 558.	1.7	175
29	Displacive radiation effects in the monazite- and zircon-structure orthophosphates. Physical Review B, 1997, 56, 13805-13814.	1.1	168
30	X-Ray Diffraction Measurement of the Effect of Layer Thickness on the Ferroelectric Transition in EpitaxialKTaO3/KNbO3Multilayers. Physical Review Letters, 1998, 80, 4317-4320.	2.9	164
31	Ultrafast disordering of vanadium dimers in photoexcited VO ₂. Science, 2018, 362, 572-576.	6.0	159
32	Strain relaxation by domain formation in epitaxial ferroelectric thin films. Physical Review Letters, 1992, 68, 3733-3736.	2.9	157
33	Production of native donors in ZnO by annealing at high temperature in Zn vapor. Applied Physics Letters, 2005, 87, 172108.	1.5	157
34	Formation enthalpies of rare earth titanate pyrochlores. Journal of Solid State Chemistry, 2004, 177, 1858-1866.	1.4	151
35	Synthesis and characterization of size-controlled vanadium dioxide nanocrystals in a fused silica matrix. Journal of Applied Physics, 2002, 92, 4031-4036.	1.1	149
36	Nanoscale Manipulation of Pyrochlore: New Nanocomposite Ionic Conductors. Physical Review Letters, 2001, 87, 145901.	2.9	146

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37	Ninefold coordination LaPO4: Pentagonal interpenetrating tetrahedral polyhedron. Inorganica Chimica Acta, 1984, 95, 231-236.	1.2	143
38	Magnetic ordering in the high-temperature superconductor GdBa_{2}Cu_{3}O_{7}. Physical Review B, 1988, 37, 2341-2344.	1.1	141
39	Quantum Limit of Ferroelectric Phase Transitions inKTa1âˆ'xNbxO3. Physical Review Letters, 1977, 39, 1158-1161.	2.9	134
40	Interface stability and the growth of optical quality perovskites on MgO. Physical Review Letters, 1994, 72, 2741-2744.	2.9	132
41	Vibrational spectra of monazite-type rare-earth orthophosphates. Optical Materials, 2006, 29, 224-230.	1.7	131
42	The structure of cerium orthophosphate, a synthetic analogue of monazite. Journal of Inorganic and Nuclear Chemistry, 1981, 43, 101-105.	0.5	127
43	A transient liquid-like phase in the displacement cascades of zircon, hafnon and thorite. Nature, 1998, 395, 56-58.	13.7	127
44	Physical and chemical characteristics of lead-iron phosphate nuclear waste glasses. Journal of Non-Crystalline Solids, 1986, 79, 83-116.	1.5	119
45	Nanocrystalline Zirconia Can Be Amorphized by Ion Irradiation. Physical Review Letters, 2001, 88, 025503.	2.9	119
46	Ion implantation and annealing of crystalline oxides and ceramic materials. Nuclear Instruments & Methods in Physics Research B, 1988, 32, 11-22.	0.6	111
47	Amorphization and recrystallization of the ABO3 oxides. Journal of Nuclear Materials, 2002, 300, 242-254.	1.3	111
48	Polar fluctuations and first-order Raman scattering in highly polarizableKTaO3crystals with off-center Li and Nb ions. Physical Review B, 1993, 47, 5629-5637.	1.1	102
49	Temperatureâ€Dependent Morphology, Magnetic and Optical Properties of Liâ€Doped MgO. ChemCatChem, 2010, 2, 854-862.	1.8	102
50	Magnetic structure and magnetocalorics of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>GdPO</mml:mi><mml:mn>4</mml:mn></mml:msub></m Physical Review B, 2014, 90, .	1.1	100
51	Electron-irradiation-induced nucleation and growth in amorphous LaPO4, ScPO4, and zircon. Journal of Materials Research, 1997, 12, 1816-1827.	1.2	99
52	Antiferroelectric Behavior in SymmetricKNbO3/KTaO3Superlattices. Physical Review Letters, 2002, 88, 097601.	2.9	98
53	Raman scattering studies of the impurity-induced ferroelectric phase transition in KTaO3:Li. Physical Review B, 1981, 23, 5904-5915.	1.1	97
54	Coordination geometry and structural determinations of SmPO4,EuPO4 and GdPO4. Inorganica Chimica Acta, 1985, 109, 105-110.	1.2	97

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55	Temperature-controlled surface plasmon resonance in VO_2 nanorods. Optics Letters, 2002, 27, 1327.	1.7	96
56	The growth and properties of epitaxial KNbO3 thin films and KNbO3/KTaO3 superlattices. Applied Physics Letters, 1996, 68, 1488-1490.	1.5	95
57	Enhanced hysteresis in the semiconductor-to-metal phase transition of VO2 precipitates formed in SiO2 by ion implantation. Applied Physics Letters, 2001, 79, 3161-3163.	1.5	94
58	Cerium-doped orthophosphates: new promising scintillators. IEEE Transactions on Nuclear Science, 1993, 40, 384-387.	1.2	92
59	Ferromagnetism in Co- and Mn-doped ZnO. Solid-State Electronics, 2003, 47, 2231-2235.	0.8	92
60	Stable[Li]0Defects in MgO Single Crystals. Physical Review Letters, 1976, 37, 849-852.	2.9	90
61	Long-range ferroelectric interactions in KTaO3/KNbO3 superlattice structures. Applied Physics Letters, 1998, 72, 2535-2537.	1.5	90
62	Structural and crystal chemical properties of rare-earth titanate pyrochlores. Journal of Alloys and Compounds, 2014, 605, 63-70.	2.8	90
63	Raman scattering studies of the impurity-induced ferroelectric phase transition in KTaO3: Nb. Physical Review B, 1981, 23, 221-231.	1.1	88
64	Heavy-ion irradiation effects in theABO4orthosilicates:â€ƒDecomposition, amorphization, and recrystallization. Physical Review B, 1999, 59, 3981-3992.	1.1	88
65	Alpha-recoil damage in zirconolite (CaZrTi₂O₇). Journal of Materials Research, 1986, 1, 564-576.	1.2	87
66	Measurement of the optical functions of uniaxial materials by two-modulator generalized ellipsometry:â€ƒrutile (TiO_2). Optics Letters, 1997, 22, 1808.	1.7	86
67	Welding of nickel base superalloy single crystals. Science and Technology of Welding and Joining, 1997, 2, 79-88.	1.5	85
68	Polarity compensation mechanisms on the perovskite surface KTaO ₃ (001). Science, 2018, 359, 572-575.	6.0	85
69	Quantum ferroelectricity inK1â^'xNaxTaO3andKTa1â^'yNbyO3. Physical Review B, 1979, 20, 266-275.	1.1	84
70	Bridgman growth of large SrI2:Eu2+ single crystals: A high-performance scintillator for radiation detection applications. Journal of Crystal Growth, 2013, 379, 63-68.	0.7	84
71	Structural investigations of several LnVO4 compounds. Inorganica Chimica Acta, 1996, 248, 85-88.	1.2	83
72	A comparison of radiation effects in crystalline ABO4-type phosphates and silicates. Mineralogical Magazine, 2000, 64, 185-194.	0.6	83

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73	Lead phosphate glass as a stable medium for the immobilization and disposal of high-level nuclear waste. Materials Letters, 1984, 2, 301-304.	1.3	82
74	Disorder and thermal transport in undoped KTaO3. Journal of Physics Condensed Matter, 1994, 6, 4077-4092.	0.7	82
75	Investigation of the structural properties of lead-iron phosphate glasses using liquid chromatography and raman scattering spectroscopy. Journal of Non-Crystalline Solids, 1986, 87, 137-158.	1.5	80
76	STM study of Cu growth on the ZnO() surface. Surface Science, 2002, 504, 271-281.	0.8	77
77	Raman investigations of rare earth orthovanadates. Journal of Applied Physics, 2007, 101, 053511.	1.1	77
78	A comparison of the corrosion characteristics of synthetic monazite and borosilicate glass containing simulated nuclear defense waste. Nuclear and Chemical Waste Management, 1983, 4, 281-289.	0.2	76
79	Scanning tunneling microscopy study of the anatase (100) surface. Surface Science, 2003, 529, L239-L244.	0.8	76
80	Effect of thermochemical reduction on the electrical, optical-absorption, and positron-annihilation characteristics of ZnO crystals. Physical Review B, 1992, 45, 6581-6586.	1.1	75
81	EPR Investigations of Er3+, Yb3+, and Gd3+in Zirconâ€Structure Silicates. Journal of Chemical Physics, 1972, 56, 5607-5625.	1.2	74
82	The structures of three lanthanide orthophosphates. Inorganica Chimica Acta, 1983, 70, 133-136.	1.2	74
83	Single-crystal elastic constants of Fe-15Ni-15Cr alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 3149-3154.	1.1	73
84	Monazite and Other Lanthanide Orthophosphates as Alternate Actinide Waste Forms. Advances in Nuclear Science and Technology, 1980, , 289-296.	0.4	73
85	Protonic conduction in acceptor-doped KTaO3 crystals. Solid State Ionics, 1986, 18-19, 989-993.	1.3	72
86	Optical functions of transparent thin films of SrTiO_3, BaTiO_3, and SiOx determined by spectroscopic ellipsometry. Applied Optics, 1994, 33, 6053.	2.1	72
87	Structural properties of lead-iron phosphate glasses. Journal of Non-Crystalline Solids, 1985, 71, 103-112.	1.5	70
88	A structural basis for the corrosion resistance of lead-iron-phosphate glasses: An X-ray absorption spectroscopy study. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1988, 58, 271-283.	0.6	70
89	Spectroscopic properties of Er³⁺-doped lead phosphate glasses for photonic application. Journal Physics D: Applied Physics, 2010, 43, 025102.	1.3	70
90	Structural refinements of praseodymium and neodymium orthophosphate. Journal of Solid State Chemistry, 1985, 58, 71-77.	1.4	69

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91	Optical switching of coherent VO2 precipitates formed in sapphire by ion implantation and annealing. Applied Physics Letters, 1996, 68, 3081-3083.	1.5	69
92	Magnetic properties of Co- and Mn-implanted BaTiO3, SrTiO3 and KTaO3. Solid-State Electronics, 2003, 47, 2225-2230.	0.8	69
93	Optical, Structural, and Chemical Characteristics of Lead-Indium Phosphate and Lead-Scandium Phosphate Glasses. Journal of the American Ceramic Society, 1987, 70, 615-621.	1.9	65
94	Ferroelectric-to-relaxor crossover and oxygen vacancy hopping in the compositionally disordered perovskitesKTa1â^'xNbxO3:Ca. Physical Review B, 2000, 61, 3889-3896.	1.1	65
95	A RE-EXAMINATION OF THE RARE-EARTH-ELEMENT ORTHOPHOSPHATE STANDARDS IN USE FOR ELECTRON-MICROPROBE ANALYSIS. Canadian Mineralogist, 2003, 41, 221-232.	0.3	65
96	Extrinsic Peak in the Susceptibility of Incipient Ferroelectric KTaO3: Li. Physical Review Letters, 1978, 41, 1410-1413.	2.9	62
97	Optical nonlinearities in VO2 nanoparticles and thin films. Applied Physics Letters, 2004, 85, 5191-5193.	1.5	62
98	Bulk and surface characterization of In<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(001) single crystals. Physical Review B, 2012, 85, .	1.1	62
99	[illegible] <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>perovskite relaxors with mixed-valence<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>-site and<mml:math xmlns:mml="http://www.w3.org/	1.1	62
100	EPR investigations of intermediate Jahn-Teller coupling effects forCu2+in MgO and CaO. Physical Review B, 1974, 10, 3802-3817.	1.1	61
101	X-ray study of in-plane epitaxy ofYBa2Cu3Oxthin films. Physical Review B, 1989, 39, 12355-12358.	1.1	61
102	Microstructure of stainless steel single-crystal electron beam welds. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1990, 21, 1753-1766.	1.4	61
103	4fnâ^'15dâ†'4fn emission of Ce3+, Pr3+, Nd3+, Er3+, and Tm3+ in LiYF4 and YPO4. Physical Review B, 2005, 71, .	1.1	61
104	Infrared spectra of hydrogen isotopes in potassium tantalate. Journal of Chemical Physics, 1980, 73, 1073-1077.	1.2	60
105	Crystal field analysis of Tm3+ and Yb3+ in YPO4 and LuPO4. Journal of Chemical Physics, 1984, 81, 2872-2878.	1.2	60
106	Thermochemistry of the alkali rare-earth double phosphates, A3RE(PO4)2. Journal of Materials Research, 2004, 19, 2165-2175.	1.2	60
107	Paramagnetic resonance of Gd3+ in CeO2 single crystals. Journal of Physics and Chemistry of Solids, 1967, 28, 81-92.	1.9	59
108	Optical functions ofKTaO3as determined by spectroscopic ellipsometry and comparison with band structure calculations. Physical Review B, 2006, 74, .	1.1	58

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109	Epitaxial superconducting thin films of YBa2Cu3O7âˆ’xon KTaO3single crystals. Applied Physics Letters, 1989, 54, 1063-1065.	1.5	57
110	Prospects for dense, infrared emitting scintillators. IEEE Transactions on Nuclear Science, 1998, 45, 462-466.	1.2	57
111	Anomalously small 4f-5doscillator strengths and 4f-4felectronic Raman scattering cross sections forCe3+in crystals ofLuPO4. Physical Review B, 1989, 40, 4143-4152.	1.1	56
112	Comparative investigation of the performance of ZnO-based scintillators for use as Î±-particle detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 803-809.	0.7	56
113	Pressure-induced zircon-type to scheelite-type phase transitions in YbPO4 and LuPO4. Journal of Solid State Chemistry, 2008, 181, 2633-2638.	1.4	56
114	Stabilisation of polarised clusters in KTaO3by Li defects: formation of a polar glass. Journal of Physics C: Solid State Physics, 1979, 12, L563-L567.	1.5	55
115	Structures of ErPO4, TmPO4, and YbPO4. Acta Crystallographica Section C: Crystal Structure Communications, 1983, 39, 23-24.	0.4	55
116	Optical spectroscopy and lasing properties of neodymium-doped lutetium orthophosphate. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 911.	0.9	55
117	KTN as a holographic storage material. Ferroelectrics, 1980, 27, 247-250.	0.3	54
118	Optical spectra and Zeeman effect for Pr3+ and Nd3+ in LuPO4 and YPO4. Journal of Chemical Physics, 1982, 76, 3960-3966.	1.2	54
119	EPR studies of some fâ€‰n and dâ€‰n electronic impurities in KTaO3 single crystals. Journal of Chemical Physics, 1984, 81, 2528-2534.	1.2	54
120	Characteristics of unannealed ZnMgOâˆ•ZnO p-n junctions on bulk (100) ZnO substrates. Applied Physics Letters, 2005, 86, 172103.	1.5	54
121	Formation enthalpy of ThSiO4 and enthalpy of the thorite â† huttonite phase transition. Geochimica Et Cosmochimica Acta, 2005, 69, 4675-4683.	1.6	53
122	Intensities and asymmetries of electronic Raman scattering inErPO4andTmPO4. Physical Review B, 1985, 31, 8102-8110.	1.1	52
123	LuPO4:Nd and YPO4:Ndâ€”new promising VUV scintillation materials. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 239-243.	0.7	52
124	Photorefractive effects in the cubic phase of potassium tantalate-niobate. Optics Communications, 1980, 35, 45-48.	1.0	51
125	EPR investigations of Gd3+in single crystals and powders of the zirconâ€“structure orthophosphates YPO4, ScPO4, and LuPO4. Journal of Chemical Physics, 1980, 73, 1095-1103.	1.2	51
126	High-pressure phase transitions of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>ScPO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YPO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:ms Physical Review B, 2009, 80, .	1.1	51

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127	Effects of packaging SrI2(Eu) scintillator crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 242-246.	0.7	50
128	Optical spectra and Zeeman effect for Er3+ in LuPO4 and HfSiO4. Journal of Chemical Physics, 1981, 74, 5449-5452.	1.2	48
129	Structure of dichromate-type lead pyrophosphate, Pb2P2O7. Journal of Solid State Chemistry, 1986, 62, 371-376.	1.4	48
130	EPR spectroscopic characterization ofGd3+in the monazite-type rare-earth orthophosphates: LaPO4, CePO4, PrPO4, NdPO4, SmPO4, and EuPO4. Physical Review B, 1981, 23, 1012-1030.	1.1	47
131	Oriented ferromagnetic Fe-Pt alloy nanoparticles produced in Al2O3 by ion-beam synthesis. Journal of Applied Physics, 2003, 93, 5656-5669.	1.1	47
132	Switchable reflectivity on silicon from a composite VO2-SiO2 protecting layer. Applied Physics Letters, 2004, 85, 1410-1412.	1.5	47
133	Microwave dielectric properties of single-crystal quantum paraelectrics KTaO3 and SrTiO3 at cryogenic temperatures. Journal of Applied Physics, 2005, 97, 104111.	1.1	47
134	Bridgman bulk growth and scintillation measurements of SrI2:Eu2+. Journal of Crystal Growth, 2013, 379, 69-72.	0.7	47
135	Refinement of the Structures of the Layer Silicates MCuSi4O10 (M = Ca, Sr, Ba) by Rietveld Analysis of Neutron Powder Diffraction Data. Journal of Solid State Chemistry, 1993, 103, 105-113.	1.4	46
136	Raman study of phonon modes in ErVO4 single crystals. Journal of Applied Physics, 2001, 90, 1843-1846.	1.1	46
137	Magnetic ordering in GdBa2Cu3O6.14. Physical Review B, 1988, 38, 12008-12010.	1.1	45
138	Microstructural development in single crystal nickel base superalloy welds. Science and Technology of Welding and Joining, 1997, 2, 109-118.	1.5	45
139	ZnO Luminescence and scintillation studied via photoexcitation, X-ray excitation and gamma-induced positron spectroscopy. Scientific Reports, 2016, 6, 31238.	1.6	45
140	Optical properties of Nd3+ in lead phosphate glasses. Journal of Non-Crystalline Solids, 1985, 74, 167-170.	1.5	44
141	Is Tsallis Thermodynamics Nonextensive?. Physical Review Letters, 2001, 88, 020601.	2.9	44
142	Electron-Paramagnetic-Resonance Investigation of the Dynamic Jahn-Teller Effect in SrCl2:La2+. Physical Review B, 1971, 3, 2933-2945.	1.1	43
143	Low-frequency relaxation modes and structural disorder inKTa1â^'xNbxO3. Physical Review B, 1990, 41, 2398-2408.	1.1	43
144	Optical functions ofBiI3as measured by generalized ellipsometry. Physical Review B, 1999, 59, 9718-9721.	1.1	43

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145	Evaluation of Melt-Grown, ZnO Single Crystals for Use as Alpha-Particle Detectors. IEEE Transactions on Nuclear Science, 2008, 55, 1397-1403.	1.2	43
146	Giant Enhancement of Hydrogen Transport in Rutile<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>at Low Temperatures. Physical Review Letters, 2010, 104, 205901.	2.9	43
147	Spectroscopic dielectric tensor of monoclinic crystals: CdWO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2011, 84, .	1.1	43
148	Dielectric nonlinearity and spontaneous polarization ofKTa1âˆ'xNbxO3in the diffuse transition range. Physical Review B, 1991, 43, 8297-8302.	1.1	42
149	Characterization of high-temperature thermographic phosphors: spectral properties of LuPO_4:Dy(1%),Eu(2%). Applied Optics, 1995, 34, 5624.	2.1	42
150	Optical spectroscopy of erbium-doped lutetium orthophosphate. Journal of Luminescence, 1999, 85, 155-161.	1.5	42
151	X-ray photoelectron spectroscopy study of irradiation-induced amorphizaton of Gd2Ti2O7. Applied Physics Letters, 2001, 79, 1989-1991.	1.5	42
152	Magnetization and susceptibility studies of the superconductive compoundGd1Ba2Cu3Oz. Physical Review B, 1987, 36, 718-721.	1.1	41
153	Intensities of electronic Raman scattering between crystal-field levels ofCe3+inLuPO4: Nonresonant and near-resonant excitation. Physical Review B, 1989, 40, 4132-4142.	1.1	41
154	Preferred alignment of twin boundaries in YBa2Cu3Oxthin films and YBa2Cu3Ox/PrBa2Cu3Oxsuperlattices on SrTiO3. Applied Physics Letters, 1991, 58, 2174-2176.	1.5	41
155	Structure of zinc polyphosphate glasses. Journal of Non-Crystalline Solids, 1998, 226, 287-293.	1.5	41
156	Radiation-induced effects in pyrochlores and nanoscale materials engineering. Nuclear Instruments & Methods in Physics Research B, 2006, 250, 128-136.	0.6	41
157	Development of Novel Polycrystalline Ceramic Scintillators. IEEE Transactions on Nuclear Science, 2008, 55, 1501-1508.	1.2	41
158	Pulsed laser deposition of solid-solution films using segmented targets. Thin Solid Films, 1998, 312, 156-159.	0.8	40
159	Enthalpies of formation of rare earth orthovanadates, REVO4. Journal of Solid State Chemistry, 2007, 180, 847-851.	1.4	40
160	Gd3+ESR Spectra in Cubic and Trigonal Sites of BaF2. Journal of Chemical Physics, 1970, 52, 1248-1249.	1.2	39
161	Observation of strong electron-phonon coupling effects inYbPO4. Physical Review B, 1992, 45, 5027-5030.	1.1	39
162	Lattice dynamics of xenotime: The phonon dispersion relations and density of states ofLuPO4. Physical Review B, 1997, 56, 11584-11592.	1.1	39

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163	Spectroscopic refractive indices of metalorthophosphates with the zircon-type structure. Optical Materials, 2000, 15, 103-109.	1.7	39
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