

Lynn A Boatner

List of Publications by Year in descending order

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595
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24,259
citations

8159

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612
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612
times ranked

16444
citing authors

#	ARTICLE	IF	CITATIONS
37	Fluctuating defects in the incipient relaxor $K_{1-x}Li_xTaO_3$ ($x=0.02$). Physical Review B, 2014, 90, .	1.1	34
38	Defect Engineering in $Sr_{2+}Eu_{2+}$ Single Crystal Scintillators. Crystal Growth and Design, 2015, 15, 3929-3938.	1.4	29
39	Divalent europium doped and un-doped calcium iodide scintillators: Scintillator characterization and single crystal growth. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 786, 23-31.	0.7	16
40	Ag out-surface diffusion in crystalline SiC with an effective SiO ₂ diffusion barrier. Journal of Nuclear Materials, 2015, 464, 294-298.	1.3	3
41	Fluctuating defects in the incipient relaxor $K_{1-x}Li_xTaO_3$ ($x=0.02$). Physical Review B, 2014, 90, .	1.1	9
42	The interaction of 193 nm excimer laser radiation with single-crystal zinc oxide: Generation of long lived highly excited particles with evidence of Zn Rydberg formation. Journal of Applied Physics, 2014, 116, 083711.	1.1	0
43	Magnetic structure and magnetocalorics of $GdPO_4$. Physical Review B, 2014, 90, .	1.1	0
44	Advances in the growth of alkaline-Earth halide single crystals for scintillator detectors. Proceedings of SPIE, 2014, , .	0.8	6
45	Strontium iodide instrument development for gamma spectroscopy and radioisotope identification. Proceedings of SPIE, 2014, , .	0.8	7
46	Structural and crystal chemical properties of rare-earth titanate pyrochlores. Journal of Alloys and Compounds, 2014, 605, 63-70.	2.8	90
47	Polymorphism, phase transitions, and thermal expansion of $K_3Lu(PO_4)_2$. Journal of Alloys and Compounds, 2014, 588, 182-189.	2.8	21
48	Contrasting the experimental properties of hydrogen in SnO ₂ , In ₂ O ₃ , and TiO ₂ . Journal of Applied Physics, 2014, 115, .	1.1	23
49	Metallization of vanadium dioxide driven by large phonon entropy. Nature, 2014, 515, 535-539.	13.7	252
50	Mixed Polyanion Glass Cathodes: Iron Phosphate Vanadate Glasses. Journal of the Electrochemical Society, 2014, 161, A2210-A2215.	1.3	17
51	Multiscale dynamics in relaxor ferroelectrics. Europhysics Letters, 2014, 105, 17001.	0.7	5
52	Donor characterization in ZnO by thermally stimulated luminescence. Applied Physics Letters, 2014, 105, 041102.	1.5	28
53	Impedance spectroscopy study of $SiO_2-Li_2O:Nd_2O_3$ glasses. Journal of Alloys and Compounds, 2014, 597, 79-84.	2.8	10
54	Reducing the $In_{2+}O_{3+}(111)$ Surface Results in Ordered Indium Adatoms. Advanced Materials Interfaces, 2014, 1, 1400289.	1.9	26

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55	The interaction of 193 nm excimer laser radiation with single-crystal zinc oxide: Neutral atomic zinc and oxygen emission. Journal of Applied Physics, 2013, 114, .	1.1	3
56	The interaction of 193-nm excimer laser radiation with single-crystal zinc oxide: The generation of atomic Zn line emission at laser fluences below breakdown. Journal of Applied Physics, 2013, 114, .	1.1	2
57	Measurements of Thermal Neutron Response in Cherenkov Glasses Designed for MeV Photon Detection. IEEE Transactions on Nuclear Science, 2013, 60, 701-707.	1.2	5
58	Instrument Development and Gamma Spectroscopy With Strontium Iodide. IEEE Transactions on Nuclear Science, 2013, 60, 955-958.	1.2	17
59	The characterization of scintillator performance at temperatures up to 400 degrees centigrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 709, 95-107.	0.7	20
60	31P Magic Angle Spinning NMR Study of Flux-Grown Rare-Earth Element Orthophosphate (Monazite/Xenotime) Solid Solutions: Evidence of Random Cation Distribution from Paramagnetically Shifted NMR Resonances. Inorganic Chemistry, 2013, 52, 12605-12615.	1.9	20
61	$A_3B_2O_{10}C_3$ perovskite relaxors with mixed-valence $A_3B_2O_{10}C_3$	1.1	62
62	New cerium-based metal-organic scintillators for radiation detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 703, 138-144.	0.7	5
63	Characterizing the radiation response of Cherenkov glass detectors with isotopic sources. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 1143-1151.	0.7	8
64	Simulated response of Cherenkov glass detectors to MeV photons. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 1321-1329.	0.7	7
65	Bridgman bulk growth and scintillation measurements of Sr12:Eu2+. Journal of Crystal Growth, 2013, 379, 69-72.	0.7	47
66	Bridgman growth of large Sr12:Eu2+ single crystals: A high-performance scintillator for radiation detection applications. Journal of Crystal Growth, 2013, 379, 63-68.	0.7	84
67	Ultraviolet luminescence of ScPO ₄ , AlPO ₄ and GaPO ₄ crystals. Journal of Physics Condensed Matter, 2013, 25, 385502.	0.7	6
68	Surface structure of lithium-doped potassium tantalate using helium atom scattering. Physical Review B, 2013, 87, .	1.1	1
69	Hygroscopicity evaluation of halide scintillators. , 2013, , .		0
70	The observation of scintillation in a hydrated inorganic compound: CeCl ₃ ·6H ₂ O. Applied Physics Letters, 2013, 103, 141909.	1.5	4
71	Thermal lens study of thermo-optical properties and concentration quenching of Er ³⁺ -doped lead pyrophosphate-based glasses. Journal of Applied Physics, 2012, 111, .	1.1	11
72	The interaction of 193-nm excimer laser irradiation with single-crystal zinc oxide: Positive ion emission. Journal of Applied Physics, 2012, 111, 063101.	1.1	7

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73	Bond angles for O-H defects in SnO ₂ from polarization properties of their vibrational modes. Physical Review B, 2012, 85, .	1.1	6
74	Spectroscopic refractive indices of monoclinic single crystal and ceramic lutetium oxyorthosilicate from 200 to 850 nm. Journal of Applied Physics, 2012, 112, .	1.1	21
75	Latest advances in large diameter Srl:Eu and CLYC:Ce scintillators for isotope identification. Proceedings of SPIE, 2012, , .	0.8	6
76	Bulk and surface characterization of In ₂ O ₃ (001) single crystals. Physical Review B, 2012, 85, .	1.1	62
77	New Family of Cerium Halide Based Materials: CeX ₃ ·ROH Compounds Containing Planes, Chains, and Tetradecanuclear Rings. Inorganic Chemistry, 2012, 51, 10503-10511.	1.9	6
78	Dual-chamber/dual-anode proportional counter incorporating an intervening thin-foil solid neutron converter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 693, 244-252.	0.7	3
79	Refractive index of sodium iodide. Journal of Applied Physics, 2012, 111, .	1.1	4
80	Dielectric Constant Enhanced Hall Mobility in Complex Oxides. Advanced Materials, 2012, 24, 3965-3969.	11.1	24
81	New crystal structural families of lanthanide chloride Alcohol/water complexes. Inorganica Chimica Acta, 2012, 384, 23-28.	1.2	6
82	Vacuum-tight sample transfer stage for a scanning electron microscopic study of stabilized lithium metal particles. Journal of Materials Science, 2012, 47, 1572-1577.	1.7	19
83	Performance of europium-doped strontium iodide, transparent ceramics and bismuth-loaded polymer scintillators. Proceedings of SPIE, 2011, , .	0.8	24
84	Hydrogen impurities and shallow donors in SnO ₂ studied by infrared spectroscopy. Physical Review B, 2011, 84, .	1.1	33
85	Spectroscopic dielectric tensor of monoclinic crystals: CdWO ₄ . Physical Review B, 2011, 84, .	1.1	43
86	Effects of packaging Srl ₂ (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
87	Characteristics of undoped and europium-doped Srl ² scintillator detectors. , 2011, , .		9
88	The characterization of Eu ²⁺ -doped mixed alkaline-earth iodide scintillator crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 643, 75-78.	0.7	9
89	Size-dependent magnetic ordering and spin dynamics in DyPO ₄ and GdPO ₄ nanoparticles. Physical Review B, 2011, 84, .	1.1	14
90	Cu-doping of ZnO by nuclear transmutation. Applied Physics Letters, 2011, 99, .	1.5	26

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91	Atom scattering from $KTa_{0.7}Nb_{0.3}O_3$ single crystals. <i>Journal of Applied Physics</i> , 2010, 107, 013514.	1.1	3
92	Evaluation of neutron and gamma detectors for high-temperature well-logging applications. <i>Journal of Nuclear Energy Part C: Nuclear Science</i> , 2011, 45, 1-10.		1
93	Zinc ion and neutral emission from single crystal zinc oxide during 193-nm excimer laser exposure. <i>Applied Physics Letters</i> , 2011, 98, 011101.		0
94	Photoelectrochemical Stability and Alteration Products of n-Type Single-Crystal ZnO Photoanodes. <i>International Journal of Electrochemistry</i> , 2011, 2011, 1-10.	2.4	23
95	Potassium tantalate substrates for neutron experiments on antiferromagnetic perovskite films. <i>Journal of Physics: Conference Series</i> , 2010, 251, 012021.	0.3	0
96	Temperature-Dependent Morphology, Magnetic and Optical Properties of Li-Doped MgO. <i>ChemCatChem</i> , 2010, 2, 854-862.	1.8	102
97	Third-order nonlinearity of Er ³⁺ -doped lead phosphate glass. <i>Applied Physics B: Lasers and Optics</i> , 2010, 99, 559-563.	1.1	11
98	Raman investigations of rare-earth arsenate single crystals. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 694-697.	1.2	10
99	Properties of Ce-activated alkali-lutetium double phosphate scintillators. <i>Radiation Measurements</i> , 2010, 45, 400-402.	0.7	4
100	Photoelectrochemical properties of n-type KTaO ₃ single crystals in alkaline electrolytes. <i>Journal of Materials Research</i> , 2010, 25, 52-62.	1.2	3
101	Inelastic neutron scattering, lattice dynamics, and high-pressure phase stability of zircon-structured lanthanide orthophosphates. <i>Physical Review B</i> , 2010, 82, .	1.1	8
102	Giant Enhancement of Hydrogen Transport in Rutile TiO_2 at Low Temperatures. <i>Physical Review Letters</i> , 2010, 104, 205901.	2.9	43
103	Surface structure of niobium-doped potassium tantalate $KTa_{1-x}Nb_xO_3$ obtained from helium atom scattering studies. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 304009.	0.7	4
104	Evaluation of large volume SrI ₂ (Eu) scintillator detectors. <i>Journal of Nuclear Energy Part C: Nuclear Science</i> , 2010, 44, 1-10.		11
105	Comparative gamma spectroscopy with SrI ₂ (Eu), GYGAC(Ce) and Bi-loaded plastic scintillators. <i>Journal of Nuclear Energy Part C: Nuclear Science</i> , 2010, 44, 1-10.		16
106	Optical properties of bismuth germanate. <i>Journal of Applied Physics</i> , 2010, 107, 013514.	1.1	19
107	Spectroscopic properties of Er ³⁺ -doped lead phosphate glasses for photonic application. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 025102.	1.3	70
108	A New Scintillator for Fast Neutron Detection: Single-Crystal $CeCl_3 \cdot 7H_2O$. <i>Journal of Nuclear Energy Part C: Nuclear Science</i> , 2010, 44, 1-10.	1.2	8

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109	Neutron Detection via the Cherenkov Effect. IEEE Transactions on Nuclear Science, 2010, , .	1.2	3
110	Proton Tunneling: A Decay Channel of the O-H Stretch Mode in KTaO ₃ . Physical Review Letters, 2009, 102, 075506.	2.9	20
111	Propagation of ripples on pyrochlore induced by ion beam bombardment. Physical Review B, 2009, 80, .	1.1	30
112	Quantum efficiencies and thermo-optical properties of Er ³⁺ , Nd ³⁺ , and Pr ³⁺ -single doped lead-indium-phosphate glasses. Journal of Applied Physics, 2009, 106, .	1.1	13
113	Investigation of ZnO-Based Polycrystalline Ceramic Scintillators for Use as α -Particle Detectors. IEEE Transactions on Nuclear Science, 2009, 56, 892-898.	1.2	23
114	Pb ⁺ irradiation of synthetic zircon (ZrSiO ₄): Infrared spectroscopic investigation-Reply. American Mineralogist, 2009, 94, 856-858.	0.9	5
115	Neutron scattering study of the relaxor ferroelectric K _{1-x} Li _x TaO ₃ . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 254-256.	0.7	3
116	Growth, Characterization, and Electrochemical Properties of Doped n-Type KTaO ₃ Photoanodes. Journal of the Electrochemical Society, 2009, 156, B580.	1.3	31
117	Photoinduced Formation of Zinc Nanoparticles by UV Laser Irradiation of ZnO. Langmuir, 2009, 25, 1930-1933.	1.6	32
118	Scintillation Properties and Time-Resolved Spectroscopy of a Novel Scintillator Material: Ce ³⁺ -Activated Li ₃ Lu(PO ₄) ₂ Crystals. IEEE Transactions on Nuclear Science, 2009, 56, 3806-3818.	1.2	15
119	Prospects for High Energy Resolution Gamma Ray Spectroscopy with Europium-Doped Strontium Iodide. Materials Research Society Symposia Proceedings, 2009, 1164, 1.	0.1	8
120	High-pressure phase transitions of ScPO_4 . Physical Review B, 2009, 80, .	1.1	51
121	Scintillators With Potential to Supersede Lanthanum Bromide. IEEE Transactions on Nuclear Science, 2009, 56, 873-880.	1.2	224
122	Rare-earth tri-halides methanol-adduct single-crystal scintillators for gamma ray and neutron detection. Proceedings of SPIE, 2009, , .	0.8	2
123	Structure and Properties of Nanoparticles Formed by Al Implantation. Topics in Applied Physics, 2009, , 255-285.	0.4	16
124	Sr ₂ scintillator for gamma ray spectroscopy. Proceedings of SPIE, 2009, , .	0.8	34
125	Pressure-induced zircon-type to scheelite-type phase transitions in YbPO ₄ and LuPO ₄ . Journal of Solid State Chemistry, 2008, 181, 2633-2638.	1.4	56
126	Defects and Pd growth on the reduced SnO ₂ (100) surface. Surface Science, 2008, 602, 1699-1704.	0.8	5

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127	Photoelectrochemical studies of semiconducting photoanodes for hydrogen production via water dissociation. <i>Thin Solid Films</i> , 2008, 516, 8175-8178.	0.8	20
128	Evaluation of Melt-Grown, ZnO Single Crystals for Use as Alpha-Particle Detectors. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 1397-1403.	1.2	43
129	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.	1.4	19
130	Strontium and barium iodide high light yield scintillators. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	299
131	Micro-Raman and micro-infrared spectroscopic studies of Pb- and Au-irradiated ZrO_4 and SiO_4 tetrahedra: Optical properties, structural damage, and amorphization. <i>Physical Review B</i> , 2008, 77, .	1.1	23
132	Comparison of Cathodoluminescent and Photoluminescent Emission Spectra of $LuPO_4$ With Europium, Erbium, and Neodymium Dopants. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 1107-1110.	1.2	5
133	Development of Novel Polycrystalline Ceramic Scintillators. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 1501-1508.	1.2	41
134	Exploratory Research on the Development of Novel Ce^{3+} -Activated Phosphate Glass Scintillators. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 3692-3702.	1.2	21
135	Effect of local dipole moments on the structure and lattice dynamics of $K_0.98Ca_{0.02}PO_4$. <i>Physical Review B</i> , 2008, 78, .	1.1	9
136	Pb ⁺ irradiation of synthetic zircon (ZrSiO ₄): Infrared spectroscopic investigation. <i>American Mineralogist</i> , 2008, 93, 1418-1423.	0.9	18
137	Magnetic and Structural Studies in Co- and Mn-implanted SrTiO ₃ Single Crystals. <i>Ferroelectrics</i> , 2008, 368, 120-130.	0.3	12
138	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, .	1.5	11
139	Resonant ultrasound spectroscopy of KTa _{1-x} Nb _x O ₃ ferroelectric relaxor crystals. <i>Physical Review B</i> , 2008, 78, .	1.1	16
140	New rare-earth-activated phosphate glass scintillators. <i>Proceedings of SPIE</i> , 2007, , .	0.8	6
141	Neutron detection via the Cherenkov effect. , 2007, , .		0
142	Unusual fluorescence emission characteristics from europium-doped lead phosphate glass caused by 3 MeV proton irradiation. , 2007, , .		6
143	Optical characterization of Nd ³⁺ - and Er ³⁺ -doped lead-indium-phosphate glasses. <i>Journal of Applied Physics</i> , 2007, 102, 043113.	1.1	19
144	Performance of new ceramic scintillators for gamma- and x-ray detection. <i>Proceedings of SPIE</i> , 2007, , .	0.8	2

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145	Applications of First Principles Theory to Inorganic Radiation Detection Materials. Materials Research Society Symposia Proceedings, 2007, 1038, 1.	0.1	2
146	Raman investigations of rare earth orthovanadates. Journal of Applied Physics, 2007, 101, 053511.	1.1	77
147	Cerium-doped mixed-alkali rare-earth double-phosphate scintillators for thermal neutron detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 19-22.	0.7	13
148	Enthalpies of formation of rare earth orthovanadates, REVO ₄ . Journal of Solid State Chemistry, 2007, 180, 847-851.	1.4	40
149	Cathodoluminescence from mixed KTaO ₃ -KNbO ₃ crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 905-909.	0.8	3
150	Low-temperature Raman spectra of YbVO ₄ . Vibrational Spectroscopy, 2007, 45, 95-98.	1.2	9
151	Cerium-doped mixed-alkali rare-earth double-phosphate scintillators for x- and gamma-ray detection. , 2006, , .		4
152	Effects of phonon coupling and free carriers on band-edge emission at room temperature in n-type ZnO crystals. Applied Physics Letters, 2006, 89, 251906.	1.5	33
153	Cathodoluminescence Emission Studies for Selected Phosphor-Based Sensor Materials. IEEE Transactions on Nuclear Science, 2006, 53, 2398-2403.	1.2	10
154	Dielectric properties and lattice dynamics of Ca-dopedK _{0.95} Li _{0.05} TaO ₃ . Physical Review B, 2006, 74, .	1.1	26
155	Dielectric properties and phase transitions of Cd ₂ Nb ₂ O ₇ : Effects of pressure and temperature. Journal of Applied Physics, 2006, 100, 074112.	1.1	15
156	[1-100]/(11-22) Twin Boundaries in Wurtzite ZnO and Group III-Nitrides. Microscopy and Microanalysis, 2006, 12, 1374-1375.	0.2	3
157	Metallographic Investigations of Solidification Microstructures and Melt-Pool Characteristics in Oriented Single Crystals of Stainless Steel. Microscopy and Microanalysis, 2006, 12, 1604-1605.	0.2	2
158	Optical nonlinearities and the ultrafast phase transition of VO ₂ nanoparticles and thin films. , 2006, 6118, 222.		1
159	Comparative investigation of the performance of ZnO-based scintillators for use as $\hat{1}\pm$ -particle detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 803-809.	0.7	56
160	Ion-beam implantation and cross-sectional TEM characterization of Gd ₂ Ti ₂ O ₇ pyrochlore. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 448-451.	0.6	16
161	Radiation-induced effects in pyrochlores and nanoscale materials engineering. Nuclear Instruments & Methods in Physics Research B, 2006, 250, 128-136.	0.6	41
162	Irradiation-induced nanostructures in cadmium niobate pyrochlores. Nuclear Instruments & Methods in Physics Research B, 2006, 250, 188-191.	0.6	3

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163	Vibrational spectra of monazite-type rare-earth orthophosphates. <i>Optical Materials</i> , 2006, 29, 224-230.	1.7	131
164	Electronic structure of Pb- and non-Pb-based phosphate scintillators. <i>Physical Review B</i> , 2006, 74, .	1.1	9
165	Pressure-induced structural transitions and phase decomposition in the Cd ₂ Nb ₂ O ₇ pyrochlore. <i>Physical Review B</i> , 2006, 74, .	1.1	22
166	Scanning transmission electron microscopy investigations of interfacial layers in HfO ₂ gate stacks. <i>Journal of Applied Physics</i> , 2006, 100, 024103.	1.1	30
167	Simultaneous formation of surface ripples and metallic nanodots induced by phase decomposition and focused ion beam patterning. <i>Applied Physics Letters</i> , 2006, 88, 093112.	1.5	37
168	Optical functions of KTaO ₃ as determined by spectroscopic ellipsometry and comparison with band structure calculations. <i>Physical Review B</i> , 2006, 74, .	1.1	58
169	UV Light-Induced IR Absorption and Photoconductivity in KTa _{1-x} Nb _x O ₃ . <i>Ferroelectrics</i> , 2006, 334, 113-123.	0.3	6
170	Fabrication of p-n junctions in as-grown ZnMgO/ZnO films. , 2005, , .		1
171	Focused Ion Beam-Induced Ripple and Nanoparticle Formation in Cd ₂ Nb ₂ O ₇ . <i>Microscopy and Microanalysis</i> , 2005, 11, .	0.2	1
172	Surface treatment for forming unit-cell steps on the (001) KTaO ₃ substrate surface. <i>Applied Surface Science</i> , 2005, 241, 271-278.	3.1	14
173	Preliminary investigation of KTN as a surface acoustic wave infrared/thermal detector. <i>Sensors and Actuators A: Physical</i> , 2005, 119, 358-364.	2.0	16
174	Dielectric properties of Ti-doped K(Ta,Nb)O ₃ thin films grown by pulsed laser deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 117, 87-91.	1.7	15
175	Ion beam implantation and cross-sectional TEM studies of lanthanide titanate pyrochlore single crystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 241, 365-371.	0.6	34
176	Accumulation and recovery of disorder in Au ²⁺ -irradiated Cd ₂ Nb ₂ O ₇ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 241, 372-376.	0.6	1
177	Cadmium Nanowire Formation Induced by Ion Irradiation. <i>Advanced Materials</i> , 2005, 17, 1602-1606.	11.1	25
178	Dielectric response of K(Ta,Nb)O ₃ thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 289-293.	1.1	4
179	Low temperature structural transformations of dilute KTa _{1-x} Nb _x O ₃ : x = 0.018, quantum superparaelectric or reentrant glass scenario?. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 145-148.	0.8	6
180	X-ray and pulsed electron beam excited luminescence and optical absorption in KTaO ₃ crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 200-203.	0.8	2

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181	[110] twin boundaries in wurtzite ZnO and group-III-nitrides. <i>Physical Review B</i> , 2005, 71, .	1.1	26
182	Characteristics of unannealed ZnMgO/ZnO p-n junctions on bulk (100) ZnO substrates. <i>Applied Physics Letters</i> , 2005, 86, 172103.	1.5	54
183	Annealing-environment effects on the properties of CoPt nanoparticles formed in single-crystal Al ₂ O ₃ by ion implantation. <i>Journal of Applied Physics</i> , 2005, 98, 114311.	1.1	11
184	Low dielectric losses in annealed Ti-doped K(Ta,Nb)O ₃ thin films grown by pulsed laser deposition. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 1331-1336.	1.3	8
185	Microwave dielectric properties of single-crystal quantum paraelectrics KTaO ₃ and SrTiO ₃ at cryogenic temperatures. <i>Journal of Applied Physics</i> , 2005, 97, 104111.	1.1	47
186	f _{4f} emission of Ce ³⁺ , Pr ³⁺ , Nd ³⁺ , Er ³⁺ , and Tm ³⁺ in LiYF ₄ and YPO ₄ . <i>Physical Review B</i> , 2005, 71, .	1.1	61
187	Photoinduced phase transition in VO ₂ nanocrystals: ultrafast control of surface-plasmon resonance. <i>Optics Letters</i> , 2005, 30, 558.	1.7	175
188	Formation enthalpy of ThSiO ₄ and enthalpy of the thorite to huttonite phase transition. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4675-4683.	1.6	53
189	Production of native donors in ZnO by annealing at high temperature in Zn vapor. <i>Applied Physics Letters</i> , 2005, 87, 172108.	1.5	157
190	Raman scattering study of Tb(V _{1-x} P _x)O ₄ single crystals. <i>Journal of Applied Physics</i> , 2004, 95, 1148-1151.	1.1	31
191	Dielectric response of asymmetric KNbO ₃ /KTaO ₃ superlattices. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 2010-2013.	0.9	8
192	Switchable reflectivity on silicon from a composite VO ₂ -SiO ₂ protecting layer. <i>Applied Physics Letters</i> , 2004, 85, 1410-1412.	1.5	47
193	Phonon spectra of terbium-doped lutetium orthophosphates. <i>Journal of Applied Physics</i> , 2004, 96, 6344-6347.	1.1	6
194	FePt nanoparticles formed in Al ₂ O ₃ by ion beam synthesis: Annealing environment effects. <i>Journal of Applied Physics</i> , 2004, 95, 8160-8166.	1.1	18
195	Low-temperature phase transformations in weakly doped quantum paraelectrics: novel features and quantum reentrant dipolar glass state in KTa _{0.982} Nb _{0.018} O ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 1317-1327.	1.9	8
196	Formation enthalpies of rare earth titanate pyrochlores. <i>Journal of Solid State Chemistry</i> , 2004, 177, 1858-1866.	1.4	151
197	Single-crystal elastic constants of Fe-15Ni-15Cr alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 3149-3154.	1.1	73
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