

Lynn A Boatner

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580 papers	21,566 citations	72 h-index	120 g-index
612 ext. papers	22,758 ext. citations	3.7 avg, IF	6.35 L-index

#	Paper	IF	Citations
580	Wide band gap ferromagnetic semiconductors and oxides. <i>Journal of Applied Physics</i> , 2003 , 93, 1-13	2.5	918
579	Chemically sensitive structure-imaging with a scanning transmission electron microscope. <i>Nature</i> , 1988 , 336, 565-567	50.4	563
578	Ferromagnetism in Mn-implanted ZnO:Sn single crystals. <i>Applied Physics Letters</i> , 2003 , 82, 239-241	3.4	382
577	Advances in wide bandgap materials for semiconductor spintronics. <i>Materials Science and Engineering Reports</i> , 2003 , 40, 137-168	30.9	375
576	STM study of the geometric and electronic structure of ZnO()-Zn, ()-O, (), and () surfaces. <i>Surface Science</i> , 2002 , 519, 201-217	1.8	352
575	Radiation damage in zircon and monazite. <i>Geochimica Et Cosmochimica Acta</i> , 1998 , 62, 2509-2520	5.5	298
574	Size effects in the structural phase transition of VO ₂ nanoparticles. <i>Physical Review B</i> , 2002 , 65,	3.3	293
573	Radiation-induced amorphization of rare-earth titanate pyrochlores. <i>Physical Review B</i> , 2003 , 68,	3.3	264
572	Strontium and barium iodide high light yield scintillators. <i>Applied Physics Letters</i> , 2008 , 92, 083508	3.4	258
571	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
570	Ferromagnetism in cobalt-implanted ZnO. <i>Applied Physics Letters</i> , 2003 , 83, 5488-5490	3.4	241
569	Ion implantation and annealing of crystalline oxides. <i>Materials Science and Engineering Reports</i> , 1989 , 4, 41-146		238
568	Nanocomposite Materials Formed by Ion Implantation. <i>Advanced Materials</i> , 2001 , 13, 1431-1444	24	229
567	Spectroscopic ellipsometry of thin film and bulk anatase (TiO ₂). <i>Journal of Applied Physics</i> , 2003 , 93, 9537-9541	2.9	223
566	Domain formation and strain relaxation in epitaxial ferroelectric heterostructures. <i>Physical Review B</i> , 1994 , 49, 14865-14879	3.3	214
565	Scintillators With Potential to Supersede Lanthanum Bromide. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 873-880	1.7	196
564	Thermochemistry of rare-earth orthophosphates. <i>Journal of Materials Research</i> , 2001 , 16, 2623-2633	2.5	196

563	Metallization of vanadium dioxide driven by large phonon entropy. <i>Nature</i> , 2014 , 515, 535-9	50.4	192
562	Raman spectra of the rare earth orthophosphates. <i>Journal of Raman Spectroscopy</i> , 1981 , 11, 273-278	2.3	192
561	The order-disorder transition in ion-irradiated pyrochlore. <i>Acta Materialia</i> , 2003 , 51, 1493-1502	8.4	191
560	Analysis of solidification microstructures in Fe-Ni-Cr single-crystal welds. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990 , 21, 1767-1782		191
559	Optical functions of uniaxial ZnO determined by generalized ellipsometry. <i>Physical Review B</i> , 1998 , 58, 3586-3589	3.3	187
558	Lead-iron phosphate glass: a stable storage medium for high-level nuclear waste. <i>Science</i> , 1984 , 226, 45-8	33.3	172
557	Nanocomposites formed by ion implantation: Recent developments and future opportunities. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 178, 7-16	1.2	162
556	Structural investigations of YPO ₄ , ScPO ₄ , and LuPO ₄ . <i>Inorganica Chimica Acta</i> , 1982 , 60, 39-43	2.7	160
555	Development of microstructures in Fe-15Ni-15Cr single crystal electron beam welds. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1989 , 20, 1125-1138		156
554	X-Ray Diffraction Measurement of the Effect of Layer Thickness on the Ferroelectric Transition in Epitaxial KTaO ₃ /KNbO ₃ Multilayers. <i>Physical Review Letters</i> , 1998 , 80, 4317-4320	7.4	153
553	Photoinduced phase transition in VO ₂ nanocrystals: ultrafast control of surface-plasmon resonance. <i>Optics Letters</i> , 2005 , 30, 558-60	3	150
552	Strain relaxation by domain formation in epitaxial ferroelectric thin films. <i>Physical Review Letters</i> , 1992 , 68, 3733-3736	7.4	144
551	Synthesis, Structure, and Properties of Monazite, Pretulite, and Xenotime. <i>Reviews in Mineralogy and Geochemistry</i> , 2002 , 48, 87-121	7.1	142
550	Displacive radiation effects in the monazite- and zircon-structure orthophosphates. <i>Physical Review B</i> , 1997 , 56, 13805-13814	3.3	139
549	Production of native donors in ZnO by annealing at high temperature in Zn vapor. <i>Applied Physics Letters</i> , 2005 , 87, 172108	3.4	139
548	Formation enthalpies of rare earth titanate pyrochlores. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 1858-1866	3.3	139
547	Synthesis and characterization of size-controlled vanadium dioxide nanocrystals in a fused silica matrix. <i>Journal of Applied Physics</i> , 2002 , 92, 4031-4036	2.5	136
546	Magnetic ordering in the high-temperature superconductor GdBa ₂ Cu. <i>Physical Review B</i> , 1988 , 37, 2341-2344	3.3	136

545	Nanoscale manipulation of pyrochlore: new nanocomposite ionic conductors. <i>Physical Review Letters</i> , 2001 , 87, 145901	7.4	133
544	Ninefold coordination LaPO ₄ : Pentagonal interpenetrating tetrahedral polyhedron. <i>Inorganica Chimica Acta</i> , 1984 , 95, 231-236	2.7	132
543	Quantum Limit of Ferroelectric Phase Transitions in KTa _{1-x} Nb _x O ₃ . <i>Physical Review Letters</i> , 1977 , 39, 1158-1161	7.4	129
542	A transient liquid-like phase in the displacement cascades of zircon, hafnion and thorite. <i>Nature</i> , 1998 , 395, 56-58	50.4	116
541	Interface stability and the growth of optical quality perovskites on MgO. <i>Physical Review Letters</i> , 1994 , 72, 2741-2744	7.4	114
540	The structure of cerium orthophosphate, a synthetic analogue of monazite. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1981 , 43, 101-105		114
539	Vibrational spectra of monazite-type rare-earth orthophosphates. <i>Optical Materials</i> , 2006 , 29, 224-230	3.3	113
538	Ion implantation and annealing of crystalline oxides and ceramic materials. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1988 , 32, 11-22	1.2	104
537	Nanocrystalline zirconia can be amorphized by ion irradiation. <i>Physical Review Letters</i> , 2002 , 88, 025503	7.4	103
536	Physical and chemical characteristics of lead-iron phosphate nuclear waste glasses. <i>Journal of Non-Crystalline Solids</i> , 1986 , 79, 83-116	3.9	102
535	Amorphization and recrystallization of the ABO ₃ oxides. <i>Journal of Nuclear Materials</i> , 2002 , 300, 242-254	3.3	96
534	Polar fluctuations and first-order Raman scattering in highly polarizable KTaO ₃ crystals with off-center Li and Nb ions. <i>Physical Review B</i> , 1993 , 47, 5629-5637	3.3	95
533	Raman scattering studies of the impurity-induced ferroelectric phase transition in KTaO ₃ :Li. <i>Physical Review B</i> , 1981 , 23, 5904-5915	3.3	94
532	Ultrafast disordering of vanadium dimers in photoexcited VO. <i>Science</i> , 2018 , 362, 572-576	33.3	92
531	Temperature-Dependent Morphology, Magnetic and Optical Properties of Li-Doped MgO. <i>ChemCatChem</i> , 2010 , 2, 854-862	5.2	91
530	Antiferroelectric behavior in symmetric KNbO ₃ /KTaO ₃ superlattices. <i>Physical Review Letters</i> , 2002 , 88, 097601	7.4	90
529	Enhanced hysteresis in the semiconductor-to-metal phase transition of VO ₂ precipitates formed in SiO ₂ by ion implantation. <i>Applied Physics Letters</i> , 2001 , 79, 3161-3163	3.4	88
528	Electron-irradiation-induced nucleation and growth in amorphous LaPO ₄ , ScPO ₄ , and zircon. <i>Journal of Materials Research</i> , 1997 , 12, 1816-1827	2.5	87

527	Coordination geometry and structural determinations of SmPO ₄ , EuPO ₄ and GdPO ₄ . <i>Inorganica Chimica Acta</i> , 1985 , 109, 105-110	2.7	87
526	Raman scattering studies of the impurity-induced ferroelectric phase transition in KTaO ₃ : Nb. <i>Physical Review B</i> , 1981 , 23, 221-231	3.3	87
525	Stable [Li]0 Defects in MgO Single Crystals. <i>Physical Review Letters</i> , 1976 , 37, 849-852	7.4	87
524	Ferromagnetism in Co- and Mn-doped ZnO. <i>Solid-State Electronics</i> , 2003 , 47, 2231-2235	1.7	86
523	Long-range ferroelectric interactions in KTaO ₃ /KNbO ₃ superlattice structures. <i>Applied Physics Letters</i> , 1998 , 72, 2535-2537	3.4	84
522	The growth and properties of epitaxial KNbO ₃ thin films and KNbO ₃ /KTaO ₃ superlattices. <i>Applied Physics Letters</i> , 1996 , 68, 1488-1490	3.4	84
521	. <i>IEEE Transactions on Nuclear Science</i> , 1993 , 40, 384-387	1.7	84
520	Temperature-controlled surface plasmon resonance in VO (2) nanorods. <i>Optics Letters</i> , 2002 , 27, 1327-93		83
519	Alpha-recoil damage in zirconolite (CaZrTi ₂ O ₇). <i>Journal of Materials Research</i> , 1986 , 1, 564-576	2.5	82
518	Quantum ferroelectricity in K _{1-x} NaxTaO ₃ and KTa _{1-x} NbyO ₃ . <i>Physical Review B</i> , 1979 , 20, 266-275	3.3	80
517	Disorder and thermal transport in undoped KTaO ₃ . <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 4077-4092	4.92	78
516	Measurement of the optical functions of uniaxial materials by two-modulator generalized ellipsometry: rutile (TiO ₂). <i>Optics Letters</i> , 1997 , 22, 1808-10	3	77
515	STM study of Cu growth on the ZnO() surface. <i>Surface Science</i> , 2002 , 504, 271-281	1.8	75
514	Lead phosphate glass as a stable medium for the immobilization and disposal of high-level nuclear waste. <i>Materials Letters</i> , 1984 , 2, 301-304	3.3	75
513	Investigation of the structural properties of lead-iron phosphate glasses using liquid chromatography and raman scattering spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 1986 , 87, 137-158 ^{3.9}		75
512	Heavy-ion irradiation effects in the ABO ₄ orthosilicates: Decomposition, amorphization, and recrystallization. <i>Physical Review B</i> , 1999 , 59, 3981-3992	3.3	73
511	Structural investigations of several LnVO ₄ compounds. <i>Inorganica Chimica Acta</i> , 1996 , 248, 85-88	2.7	73
510	EPR Investigations of Er ³⁺ , Yb ³⁺ , and Gd ³⁺ in Zircon-Structure Silicates. <i>Journal of Chemical Physics</i> , 1972 , 56, 5607-5625	3.9	73

509	A comparison of radiation effects in crystalline ABO ₄ -type phosphates and silicates. <i>Mineralogical Magazine</i> , 2000 , 64, 185-194	1.7	72
508	Effect of thermochemical reduction on the electrical, optical-absorption, and positron-annihilation characteristics of ZnO crystals. <i>Physical Review B</i> , 1992 , 45, 6581-6586	3.3	72
507	Welding of nickel base superalloy single crystals. <i>Science and Technology of Welding and Joining</i> , 1997 , 2, 79-88	3.7	71
506	Structural and crystal chemical properties of rare-earth titanate pyrochlores. <i>Journal of Alloys and Compounds</i> , 2014 , 605, 63-70	5.7	70
505	Bridgman growth of large SrI ₂ :Eu ²⁺ single crystals: A high-performance scintillator for radiation detection applications. <i>Journal of Crystal Growth</i> , 2013 , 379, 63-68	1.6	70
504	Scanning tunneling microscopy study of the anatase (100) surface. <i>Surface Science</i> , 2003 , 529, L239-L244	1.8	69
503	Optical functions of transparent thin films of SrTiO ₃ , BaTiO ₃ , and SiO _x determined by spectroscopic ellipsometry. <i>Applied Optics</i> , 1994 , 33, 6053-8	1.7	69
502	A comparison of the corrosion characteristics of synthetic monazite and borosilicate glass containing simulated nuclear defense waste. <i>Nuclear and Chemical Waste Management</i> , 1983 , 4, 281-289		67
501	Protonic conduction in acceptor-doped KTaO ₃ crystals. <i>Solid State Ionics</i> , 1986 , 18-19, 989-993	3.3	66
500	Optical switching of coherent VO ₂ precipitates formed in sapphire by ion implantation and annealing. <i>Applied Physics Letters</i> , 1996 , 68, 3081-3083	3.4	64
499	A structural basis for the corrosion resistance of lead-iron-phosphate glasses: An X-ray absorption spectroscopy study. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1988 , 58, 271-283		64
498	The structures of three lanthanide orthophosphates. <i>Inorganica Chimica Acta</i> , 1983 , 70, 133-136	2.7	64
497	Structural properties of lead-iron phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 1985 , 71, 103-112	3.9	63
496	Magnetic structure and magnetocalorics of GdPO ₄ . <i>Physical Review B</i> , 2014 , 90,	3.3	62
495	Raman investigations of rare earth orthovanadates. <i>Journal of Applied Physics</i> , 2007 , 101, 053511	2.5	62
494	Ferroelectric-to-relaxor crossover and oxygen vacancy hopping in the compositionally disordered perovskites KTa _{1-x} Nb _x O ₃ :Ca. <i>Physical Review B</i> , 2000 , 61, 3889-3896	3.3	62
493	Extrinsic Peak in the Susceptibility of Incipient Ferroelectric KTaO ₃ : Li. <i>Physical Review Letters</i> , 1978 , 41, 1410-1413	7.4	62
492	Monazite and Other Lanthanide Orthophosphates as Alternate Actinide Waste Forms. <i>Advances in Nuclear Science and Technology</i> , 1980 , 289-296		62

491	X-ray study of in-plane epitaxy of YBa ₂ Cu ₃ O _x thin films. <i>Physical Review B</i> , 1989 , 39, 12355-12358	3.3	61
490	EPR investigations of intermediate Jahn-Teller coupling effects for Cu ²⁺ in MgO and CaO. <i>Physical Review B</i> , 1974 , 10, 3802-3817	3.3	61
489	Magnetic properties of Co- and Mn-implanted BaTiO ₃ , SrTiO ₃ and KTaO ₃ . <i>Solid-State Electronics</i> , 2003 , 47, 2225-2230	1.7	60
488	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	2.3	59
487	Optical, Structural, and Chemical Characteristics of Lead-Indium Phosphate and Lead-Scandium Phosphate Glasses. <i>Journal of the American Ceramic Society</i> , 1987 , 70, 615-621	3.8	59
486	Paramagnetic resonance of Gd ³⁺ in CeO ₂ single crystals. <i>Journal of Physics and Chemistry of Solids</i> , 1967 , 28, 81-92	3.9	59
485	Spectroscopic properties of Er ³⁺ -doped lead phosphate glasses for photonic application. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 025102	3	58
484	Crystal field analysis of Tm ³⁺ and Yb ³⁺ in YPO ₄ and LuPO ₄ . <i>Journal of Chemical Physics</i> , 1984 , 81, 2872-2878	3.7	58
483	Structural refinements of praseodymium and neodymium orthophosphate. <i>Journal of Solid State Chemistry</i> , 1985 , 58, 71-77	3.3	58
482	Polarity compensation mechanisms on the perovskite surface KTaO(001). <i>Science</i> , 2018 , 359, 572-575	33.3	57
481	4f \rightarrow 5d \rightarrow 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,	3.3	57
480	Lead-free and lead-based ABO ₃ perovskite relaxors with mixed-valence A-site and B-site disorder: Comparative neutron scattering structural study of (Na _{1/2} Bi _{1/2})TiO ₃ and Pb(Mg _{1/3} Nb _{2/3})O ₃ . <i>Physical Review B</i> , 2013 , 88,	3.3	56
479	Optical nonlinearities in VO ₂ nanoparticles and thin films. <i>Applied Physics Letters</i> , 2004 , 85, 5191-5193	3.4	56
478	Infrared spectra of hydrogen isotopes in potassium tantalate. <i>Journal of Chemical Physics</i> , 1980 , 73, 1073-1077	3.9	55
477	Stabilisation of polarised clusters in KTaO ₃ by Li defects: formation of a polar glass. <i>Journal of Physics C: Solid State Physics</i> , 1979 , 12, L563-L567		55
476	Bulk and surface characterization of In ₂ O ₃ (001) single crystals. <i>Physical Review B</i> , 2012 , 85,	3.3	54
475	Thermochemistry of the alkali rare-earth double phosphates, A ₃ RE(PO ₄) ₂ . <i>Journal of Materials Research</i> , 2004 , 19, 2165-2175	2.5	54
474	Anomalously small 4f-5d oscillator strengths and 4f-4f electronic Raman scattering cross sections for Ce ³⁺ in crystals of LuPO ₄ . <i>Physical Review B</i> , 1989 , 40, 4143-4152	3.3	54

473	KTN as a holographic storage material. <i>Ferroelectrics</i> , 1980 , 27, 247-250	0.6	53
472	Optical spectra and Zeeman effect for Pr ³⁺ and Nd ³⁺ in LuPO ₄ and YPO ₄ . <i>Journal of Chemical Physics</i> , 1982 , 76, 3960-3966	3.9	53
471	Characteristics of unannealed ZnMgO/ZnO p-n junctions on bulk (100) ZnO substrates. <i>Applied Physics Letters</i> , 2005 , 86, 172103	3.4	52
470	Comparative investigation of the performance of ZnO-based scintillators for use as β -particle detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 568, 803-809	1.2	51
469	Microstructure of stainless steel single-crystal electron beam welds. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990 , 21, 1753-1766		51
468	EPR studies of some f n and d n electronic impurities in KTaO ₃ single crystals. <i>Journal of Chemical Physics</i> , 1984 , 81, 2528-2534	3.9	51
467	Pressure-induced zircon-type to scheelite-type phase transitions in YbPO ₄ and LuPO ₄ . <i>Journal of Solid State Chemistry</i> , 2008 , 181, 2633-2638	3.3	50
466	A RE-EXAMINATION OF THE RARE-EARTH-ELEMENT ORTHOPHOSPHATE STANDARDS IN USE FOR ELECTRON-MICROPROBE ANALYSIS. <i>Canadian Mineralogist</i> , 2003 , 41, 221-232	0.7	50
465	Intensities and asymmetries of electronic Raman scattering in ErPO ₄ and TmPO ₄ . <i>Physical Review B</i> , 1985 , 31, 8102-8110	3.3	50
464	Prospects for dense, infrared emitting scintillators. <i>IEEE Transactions on Nuclear Science</i> , 1998 , 45, 462-467	4.6	49
463	Photorefractive effects in the cubic phase of potassium tantalate-niobate. <i>Optics Communications</i> , 1980 , 35, 45-48	2	49
462	Structures of ErPO ₄ , TmPO ₄ , and YbPO ₄ . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1983 , 39, 23-24		49
461	EPR investigations of Gd ³⁺ in single crystals and powders of the zircon structure orthophosphates YPO ₄ , ScPO ₄ , and LuPO ₄ . <i>Journal of Chemical Physics</i> , 1980 , 73, 1095-1103	3.9	48
460	Epitaxial superconducting thin films of YBa ₂ Cu ₃ O _{7-x} on KTaO ₃ single crystals. <i>Applied Physics Letters</i> , 1989 , 54, 1063-1065	3.4	47
459	Oriented ferromagnetic Fe-Pt alloy nanoparticles produced in Al ₂ O ₃ by ion-beam synthesis. <i>Journal of Applied Physics</i> , 2003 , 93, 5656-5669	2.5	45
458	High-pressure phase transitions of ScPO ₄ and YPO ₄ . <i>Physical Review B</i> , 2009 , 80,	3.3	44
457	Switchable reflectivity on silicon from a composite VO ₂ -SiO ₂ protecting layer. <i>Applied Physics Letters</i> , 2004 , 85, 1410-1412	3.4	44
456	LuPO ₄ :Nd and YPO ₄ :Nd new promising VUV scintillation materials. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002 , 486, 239-243	1.2	44

455	Optical spectroscopy and lasing properties of neodymium-doped lutetium orthophosphate. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999 , 16, 911	1.7	44
454	EPR spectroscopic characterization of Gd ³⁺ in the monazite-type rare-earth orthophosphates: LaPO ₄ , CePO ₄ , PrPO ₄ , NdPO ₄ , SmPO ₄ , and EuPO ₄ . <i>Physical Review B</i> , 1981 , 23, 1012-1030	3.3	44
453	Optical spectra and Zeeman effect for Er ³⁺ in LuPO ₄ and HfSiO ₄ . <i>Journal of Chemical Physics</i> , 1981 , 74, 5449-5452	3.9	44
452	Formation enthalpy of ThSiO ₄ and enthalpy of the thorite -> huttonite phase transition. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 4675-4683	5.5	43
451	Electron-Paramagnetic-Resonance Investigation of the Dynamic Jahn-Teller Effect in SrCl ₂ :La ²⁺ . <i>Physical Review B</i> , 1971 , 3, 2933-2945	3.3	43
450	Optical functions of KTaO ₃ as determined by spectroscopic ellipsometry and comparison with band structure calculations. <i>Physical Review B</i> , 2006 , 74,	3.3	42
449	Magnetic ordering in GdBa ₂ Cu ₃ O _{6.14} . <i>Physical Review B</i> , 1988 , 38, 12008-12010	3.3	42
448	Optical properties of Nd ³⁺ in lead phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 1985 , 74, 167-170.	3.9	42
447	Low-frequency relaxation modes and structural disorder in KTa _{1-x} Nb _x O ₃ . <i>Physical Review B</i> , 1990 , 41, 2398-2408	3.3	41
446	ZnO Luminescence and scintillation studied via photoexcitation, X-ray excitation, and gamma-induced positron spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 31238	4.9	40
445	Giant enhancement of hydrogen transport in rutile TiO ₂ at low temperatures. <i>Physical Review Letters</i> , 2010 , 104, 205901	7.4	40
444	Raman study of phonon modes in ErVO ₄ single crystals. <i>Journal of Applied Physics</i> , 2001 , 90, 1843-1846	2.5	40
443	Intensities of electronic Raman scattering between crystal-field levels of Ce ³⁺ in LuPO ₄ : Nonresonant and near-resonant excitation. <i>Physical Review B</i> , 1989 , 40, 4132-4142	3.3	40
442	Structure of dichromate-type lead pyrophosphate, Pb ₂ P ₂ O ₇ . <i>Journal of Solid State Chemistry</i> , 1986 , 62, 371-376	3.3	40
441	Bridgman bulk growth and scintillation measurements of Sr ₁₂ :Eu ²⁺ . <i>Journal of Crystal Growth</i> , 2013 , 379, 69-72	1.6	39
440	Spectroscopic dielectric tensor of monoclinic crystals: CdWO ₄ . <i>Physical Review B</i> , 2011 , 84,	3.3	39
439	Development of Novel Polycrystalline Ceramic Scintillators. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 1501-1508	1.7	39
438	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	2.5	39

- 437 Optical spectroscopy of erbium-doped lutetium orthophosphate. *Journal of Luminescence*, **1999**, 85, 155-161 3.8 39
- 436 Preferred alignment of twin boundaries in YBa₂Cu₃O_x thin films and YBa₂Cu₃O_x/PrBa₂Cu₃O_x superlattices on SrTiO₃. *Applied Physics Letters*, **1991**, 58, 2174-2176 3.4 39
- 435 Dielectric nonlinearity and spontaneous polarization of KTa_{1-x}Nb_xO₃ in the diffuse transition range. *Physical Review B*, **1991**, 43, 8297-8302 3.3 39
- 434 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^{1,2} 38
- 433 Pulsed laser deposition of solid-solution films using segmented targets. *Thin Solid Films*, **1998**, 312, 156-159 38
- 432 Characterization of high-temperature thermographic phosphors: spectral properties of LuPO₄(4):Dy(1%),Eu(2%). *Applied Optics*, **1995**, 34, 5624-7 1.7 38
- 431 Magnetization and susceptibility studies of the superconductive compound Gd₁Ba₂Cu₃O_z. *Physical Review B*, **1987**, 36, 718-721 3.3 38
- 430 Enthalpies of formation of rare earth orthovanadates, REVO₄. *Journal of Solid State Chemistry*, **2007**, 180, 847-851 3.3 37
- 429 X-ray photoelectron spectroscopy study of irradiation-induced amorphization of Gd₂Ti₂O₇. *Applied Physics Letters*, **2001**, 79, 1989-1991 3.4 37
- 428 Optical functions of BiI₃ as measured by generalized ellipsometry. *Physical Review B*, **1999**, 59, 9718-9723 3.3 37
- 427 Observation of strong electron-phonon coupling effects in YbPO₄. *Physical Review B*, **1992**, 45, 5027-5030 3.3 37
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