

Lynn A Boatner

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2507484/lynn-a-boatner-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Alpha-decay induced shortening of fission tracks simulated by in situ ion irradiation. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 299, 1-14	5.5	1
579	Neutron irradiation induced defects in oxides and their impact on the oxide properties. <i>Journal of Applied Physics</i> , 2021 , 129, 215901	2.5	1
578	Cryo-quenched FeNiCr alloy decorative steel single crystals II: Alloy phases, structure, hardness, tensile, tribological, magnetic and electronic properties. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155169	5.7	1
577	Anharmonic Eigenvectors and Acoustic Phonon Disappearance in Quantum Paraelectric SrTiO ₃ . <i>Physical Review Letters</i> , 2020 , 124, 145901	7.4	11
576	Swelling and Helium Bubble Morphology in a Cryogenically Treated FeCrNi Alloy with Martensitic Transformation and Reversion after Helium Implantation. <i>Materials</i> , 2019 , 12,	3.5	4
575	Luminescence and scintillation properties of XPO ₄ :Nd ³⁺ (X = Y, Lu, Sc, La) crystals. <i>Optical Materials</i> , 2018 , 79, 273-278	3.3	6
574	Polarity compensation mechanisms on the perovskite surface KTaO(001). <i>Science</i> , 2018 , 359, 572-575	33.3	57
573	Diffusivity of the interstitial hydrogen shallow donor in In ₂ O ₃ . <i>Journal of Applied Physics</i> , 2018 , 123, 161506	5.6	2
572	Prototypical Organic-Oxide Interface: Intramolecular Resolution of Sexiphenyl on InO(111). <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14175-14182	9.5	4
571	Optical and Electrical Properties of Sn-Doped Zinc Oxide Single Crystals. <i>Journal of Electronic Materials</i> , 2018 , 47, 1497-1504	1.9	2
570	Ultrafast response of photoexcited carriers in VO ₂ at high-pressure. <i>New Journal of Physics</i> , 2018 , 20, 083003	2.9	10
569	Ultrafast disordering of vanadium dimers in photoexcited VO. <i>Science</i> , 2018 , 362, 572-576	33.3	92
568	Zn Vacancy Formation Energy and Diffusion Coefficient of CVT ZnO Crystals in the Sub-Surface Micron Region. <i>Scientific Reports</i> , 2018 , 8, 13446	4.9	4
567	Mixed Polyanion Glass Cathodes: Effect of Polyanion Content. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A804-A809	3.9	9
566	Formation of high concentrations of isolated Zn vacancies and evidence for their acceptor levels in ZnO. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 1031-1037	5.7	17
565	Resolving the Structure of a Well-Ordered Hydroxyl Overlayer on InO(111): Nanomanipulation and Theory. <i>ACS Nano</i> , 2017 , 11, 11531-11541	16.7	29
564	Mixed Polyanion Glass Cathodes: Mixed Alkali Effect. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2777-A2782	3.9	7

563	Cryo-quenched Fe-Ni-Cr alloy single crystals: A new decorative steel. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 666-671	5.7	4
562	History and current status of strontium iodide scintillators 2017 ,		5
561	The structural response of gadolinium phosphate to pressure. <i>Journal of Solid State Chemistry</i> , 2016 , 241, 180-186	3.3	11
560	Well-Ordered In Adatoms at the In ₂ O ₃ (111) Surface Created by Fe Deposition. <i>Physical Review Letters</i> , 2016 , 117, 206101	7.4	6
559	Fourier Transform Infrared Spectroscopy Measurements of Multi-phonon and Free-Carrier Absorption in ZnO. <i>Journal of Electronic Materials</i> , 2016 , 45, 6329-6336	1.9	3
558	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
557	Phase transformations and indications for acoustic mode softening in Tb-Gd orthophosphate. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 035403	1.8	12
556	Mixed Polyanion Glass Cathodes: Glass-State Conversion Reactions. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A131-A137	3.9	15
555	Symmetry and diffusivity of the interstitial hydrogen shallow-donor center in In ₂ O ₃ . <i>Applied Physics Letters</i> , 2016 , 109, 202105	3.4	11
554	Highly sensitive simple homodyne phase detector for ultrasonic pulse-echo measurements. <i>Review of Scientific Instruments</i> , 2016 , 87, 044901	1.7	3
553	Indentation recovery in GdPO ₄ and observation of deformation twinning. <i>AIP Advances</i> , 2016 , 6, 095029	1.5	1
552	Scintillation of Un-doped ZnO Single Crystals. <i>MRS Advances</i> , 2016 , 1, 121-126	0.7	1
551	Anisotropic mechanical properties of zircon and the effect of radiation damage. <i>Physics and Chemistry of Minerals</i> , 2016 , 43, 627-638	1.6	10
550	The structures of interstitial hydrogen centers in VO ₂ in the dilute limit from their vibrational properties and theory. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 395401	1.8	1
549	Hydrogen centers and the conductivity of In ₂ O ₃ single crystals. <i>Physical Review B</i> , 2015 , 91,	3.3	25
548	Defect Engineering in SrI ₂ :Eu ²⁺ Single Crystal Scintillators. <i>Crystal Growth and Design</i> , 2015 , 15, 3929-3938	3.8	25
547	Divalent europium doped and un-doped calcium iodide scintillators: Scintillator characterization and single crystal growth. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 786, 23-31	1.2	12
546	Ag out-surface diffusion in crystalline SiC with an effective SiO ₂ diffusion barrier. <i>Journal of Nuclear Materials</i> , 2015 , 464, 294-298	3.3	1

545	Origin of the crossover between a freezing and a structural transition at low concentration in the relaxor ferroelectric $K_{1-x}\text{Li}_x\text{TaO}_3$. <i>Physical Review B</i> , 2015 , 91,	3.3	10
544	Polar catastrophe and the structure of $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ surfaces: Results from elastic and inelastic helium atom scattering. <i>Physical Review B</i> , 2015 , 92,	3.3	1
543	Polymorphism, phase transitions, and thermal expansion of $\text{K}_3\text{Lu}(\text{PO}_4)_2$. <i>Journal of Alloys and Compounds</i> , 2014 , 588, 182-189	5.7	17
542	Contrasting the experimental properties of hydrogen in SnO_2 , In_2O_3 , and TiO_2 . <i>Journal of Applied Physics</i> , 2014 , 115, 012001	2.5	22
541	Metallization of vanadium dioxide driven by large phonon entropy. <i>Nature</i> , 2014 , 515, 535-9	50.4	192
540	Mixed Polyanion Glass Cathodes: Iron Phosphate Vanadate Glasses. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A2210-A2215	3.9	15
539	Multiscale dynamics in relaxor ferroelectrics. <i>Europhysics Letters</i> , 2014 , 105, 17001	1.6	4
538	Donor characterization in ZnO by thermally stimulated luminescence. <i>Applied Physics Letters</i> , 2014 , 105, 041102	3.4	24
537	Impedance spectroscopy study of $\text{SiO}_2\text{-Li}_2\text{O:Nd}_2\text{O}_3$ glasses. <i>Journal of Alloys and Compounds</i> , 2014 , 597, 79-84	5.7	9
536	Reducing the $\text{In}_2\text{O}_3(111)$ Surface Results in Ordered Indium Adatoms. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400289	4.6	22
535	Fluctuating defects in the incipient relaxor $\text{K}_{1-x}\text{Li}_x\text{TaO}_3$ ($x=0.02$). <i>Physical Review B</i> , 2014 , 90,	3.3	8
534	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. <i>Journal of Applied Physics</i> , 2014 , 116, 083711	2.5	
533	Magnetic structure and magnetocalorics of GdPO_4 . <i>Physical Review B</i> , 2014 , 90,	3.3	62
532	Advances in the growth of alkaline-Earth halide single crystals for scintillator detectors 2014 ,		5
531	Strontium iodide instrument development for gamma spectroscopy and radioisotope identification 2014 ,		7
530	Structural and crystal chemical properties of rare-earth titanate pyrochlores. <i>Journal of Alloys and Compounds</i> , 2014 , 605, 63-70	5.7	70
529	The interaction of 193 nm excimer laser radiation with single-crystal zinc oxide: Neutral atomic zinc and oxygen emission. <i>Journal of Applied Physics</i> , 2013 , 114, 053511	2.5	3
528	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. <i>Journal of Applied Physics</i> , 2013 , 114, 083102	2.5	2

527	Measurements of Thermal Neutron Response in Cherenkov Glasses Designed for MeV Photon Detection. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 701-707	1.7	4
526	Instrument Development and Gamma Spectroscopy With Strontium Iodide. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 955-958	1.7	16
525	The characterization of scintillator performance at temperatures up to 400 degrees centigrade. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 709, 95-107	1.2	18
524	³¹ P 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. <i>Inorganic Chemistry</i> , 2013 , 52, 12605-15	5.1	17
523	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
522	New cerium-based metal-organic scintillators for radiation detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 703, 138-144	1.2	5
521	Characterizing the radiation response of Cherenkov glass detectors with isotopic sources. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013 , 295, 1143-1151	1.5	8
520	Simulated response of Cherenkov glass detectors to MeV photons. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013 , 295, 1321-1329	1.5	7
519	Bridgman bulk growth and scintillation measurements of SrI ₂ :Eu ²⁺ . <i>Journal of Crystal Growth</i> , 2013 , 379, 69-72	1.6	39
518	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
517	Ultraviolet luminescence of ScPO ₄ , AlPO ₄ and GaPO ₄ crystals. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 385502	1.8	5
516	Surface structure of lithium-doped potassium tantalate using helium atom scattering. <i>Physical Review B</i> , 2013 , 87,	3.3	1
515	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
514	Vacuum-tight sample transfer stage for a scanning electron microscopic study of stabilized lithium metal particles. <i>Journal of Materials Science</i> , 2012 , 47, 1572-1577	4.3	15
513	Bulk and surface characterization of In ₂ O ₃ (001) single crystals. <i>Physical Review B</i> , 2012 , 85,	3.3	54
512	New family of cerium halide based materials: CeX ₃ ·ROH compounds containing planes, chains, and tetradecanuclear rings. <i>Inorganic Chemistry</i> , 2012 , 51, 10503-11	5.1	6
511	Dual-chamber/dual-anode proportional counter incorporating an intervening thin-foil solid neutron converter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012 , 693, 244-252	1.2	3
510	Refractive index of sodium iodide. <i>Journal of Applied Physics</i> , 2012 , 111, 043521	2.5	3

509	Dielectric-constant-enhanced hall mobility in complex oxides. <i>Advanced Materials</i> , 2012 , 24, 3965-9	24	21
508	New crystal structural families of lanthanide chloride [Alcohol/water complexes. <i>Inorganica Chimica Acta</i> , 2012 , 384, 23-28	2.7	6
507	Thermal lens study of thermo-optical properties and concentration quenching of Er ³⁺ -doped lead pyrophosphate-based glasses. <i>Journal of Applied Physics</i> , 2012 , 111, 123101	2.5	10
506	The interaction of 193-nm excimer laser irradiation with single-crystal zinc oxide: Positive ion emission. <i>Journal of Applied Physics</i> , 2012 , 111, 063101	2.5	7
505	Bond angles for O-H defects in SnO ₂ from polarization properties of their vibrational modes. <i>Physical Review B</i> , 2012 , 85,	3.3	5
504	Spectroscopic refractive indices of monoclinic single crystal and ceramic lutetium oxyorthosilicate from 200 to 850 nm. <i>Journal of Applied Physics</i> , 2012 , 112, 063524	2.5	19
503	Latest advances in large diameter Srl:Eu and CLYC:Ce scintillators for isotope identification 2012 ,		4
502	Performance of europium-doped strontium iodide, transparent ceramics and bismuth-loaded polymer scintillators 2011 ,		20
501	Hydrogen impurities and shallow donors in SnO ₂ studied by infrared spectroscopy. <i>Physical Review B</i> , 2011 , 84,	3.3	28
500	Spectroscopic dielectric tensor of monoclinic crystals: CdWO ₄ . <i>Physical Review B</i> , 2011 , 84,	3.3	39
499	Effects of packaging Srl ₂ (Eu) scintillator crystals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 652, 242-246 ^{1.2}		38
498	2011 ,		8
497	The characterization of Eu ²⁺ -doped mixed alkaline-earth iodide scintillator crystals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 643, 75-78	1.2	9
496	Size-dependent magnetic ordering and spin dynamics in DyPO ₄ and GdPO ₄ nanoparticles. <i>Physical Review B</i> , 2011 , 84,	3.3	13
495	Cu-doping of ZnO by nuclear transmutation. <i>Applied Physics Letters</i> , 2011 , 99, 202109	3.4	20
494	Helium atom scattering from KTa _{0.7} Nb _{0.3} O ₃ (001): Anomalous surface reflectivity with varying surface temperature and helium wave vector. <i>Physical Review B</i> , 2011 , 84,	3.3	3
493	Evaluation of neutron and gamma detectors for high-temperature well-logging applications 2011 ,		1
492	Photoelectrochemical Stability and Alteration Products of n-Type Single-Crystal ZnO Photoanodes. <i>International Journal of Electrochemistry</i> , 2011 , 2011, 1-10	2.4	19

491	Photoelectrochemical properties of n-type KTaO ₃ single crystals in alkaline electrolytes. <i>Journal of Materials Research</i> , 2010 , 25, 52-62	2.5	3
490	Inelastic neutron scattering, lattice dynamics, and high-pressure phase stability of zircon-structured lanthanide orthophosphates. <i>Physical Review B</i> , 2010 , 82,	3.3	7
489	Giant enhancement of hydrogen transport in rutile TiO ₂ at low temperatures. <i>Physical Review Letters</i> , 2010 , 104, 205901	7.4	40
488	Surface structure of niobium-doped potassium tantalate KTa(1-x)Nb(x)O ₃ obtained from helium atom scattering studies. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 304009	1.8	4
487	2010 ,		6
486	Comparative gamma spectroscopy with SrI ₂ (Eu), GYGAG(Ce) and Bi-loaded plastic scintillators 2010 ,		14
485	Optical properties of bismuth germanate. <i>Journal of Applied Physics</i> , 2010 , 107, 013514	2.5	16
484	Spectroscopic properties of Er ³⁺ -doped lead phosphate glasses for photonic application. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 025102	3	58
483	A New Scintillator for Fast Neutron Detection: Single-Crystal $\text{CeCl}_3 \cdot 7\text{H}_2\text{O}$. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 1692-1696	1.7	7
482	Neutron Detection via the Cherenkov Effect. <i>IEEE Transactions on Nuclear Science</i> , 2010 ,	1.7	1
481	Potassium tantalate substrates for neutron experiments on antiferromagnetic perovskite films. <i>Journal of Physics: Conference Series</i> , 2010 , 251, 012021	0.3	
480	Temperature-Dependent Morphology, Magnetic and Optical Properties of Li-Doped MgO. <i>ChemCatChem</i> , 2010 , 2, 854-862	5.2	91
479	Third-order nonlinearity of Er ³⁺ -doped lead phosphate glass. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 99, 559-563	1.9	11
478	Raman investigations of rare-earth arsenate single crystals. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 694-697	2.3	7
477	Properties of Ce-activated alkali-lutetium double phosphate scintillators. <i>Radiation Measurements</i> , 2010 , 45, 400-402	1.5	4
476	Proton tunneling: a decay channel of the O-H stretch mode in KTaO ₃ . <i>Physical Review Letters</i> , 2009 , 102, 075506	7.4	19
475	Propagation of ripples on pyrochlore induced by ion beam bombardment. <i>Physical Review B</i> , 2009 , 80,	3.3	27
474	Quantum efficiencies and thermo-optical properties of Er ³⁺ , Nd ³⁺ , and Pr ³⁺ -single doped lead-indium-phosphate glasses. <i>Journal of Applied Physics</i> , 2009 , 106, 113111	2.5	13

473	Investigation of ZnO-Based Polycrystalline Ceramic Scintillators for Use as α -Particle Detectors. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 892-898	1.7	20
472	Pb+ irradiation of synthetic zircon (ZrSiO ₄): Infrared spectroscopic investigation--Reply. <i>American Mineralogist</i> , 2009 , 94, 856-858	2.9	4
471	Neutron scattering study of the relaxor ferroelectric K _{1-x} Li _x TaO ₃ . <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 600, 254-256	1.2	2
470	Growth, Characterization, and Electrochemical Properties of Doped n-Type KTaO ₃ Photoanodes. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B580	3.9	24
469	Photoinduced formation of zinc nanoparticles by UV laser irradiation of ZnO. <i>Langmuir</i> , 2009 , 25, 1930-34		30
468	Scintillation Properties and Time-Resolved Spectroscopy of a Novel Scintillator Material: Ce ³⁺ -Activated Li ₃ Lu(PO ₄) ₂ Crystals. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 3806-3818	1.7	12
467	Prospects for High Energy Resolution Gamma Ray Spectroscopy with Europium-Doped Strontium Iodide. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1164, 1		6
466	High-pressure phase transitions of ScPO ₄ and YPO ₄ . <i>Physical Review B</i> , 2009 , 80,	3.3	44
465	Scintillators With Potential to Supersede Lanthanum Bromide. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 873-880	1.7	196
464	Rare-earth tri-halides methanol-adduct single-crystal scintillators for gamma ray and neutron detection 2009 ,		2
463	Structure and Properties of Nanoparticles Formed by Ion Implantation. <i>Topics in Applied Physics</i> , 2009 , 255-285	0.5	12
462	SrI ₂ scintillator for gamma ray spectroscopy 2009 ,		29
461	Evaluation of Melt-Grown, ZnO Single Crystals for Use as Alpha-Particle Detectors. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 1397-1403	1.7	36
460	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
459	Strontium and barium iodide high light yield scintillators. <i>Applied Physics Letters</i> , 2008 , 92, 083508	3.4	258
458	Micro-Raman and micro-infrared spectroscopic studies of Pb- and Au-irradiated ZrSiO ₄ : Optical properties, structural damage, and amorphization. <i>Physical Review B</i> , 2008 , 77,	3.3	14
457	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	1.7	4
456	Development of Novel Polycrystalline Ceramic Scintillators. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 1501-1508	1.7	39

455	Exploratory Research on the Development of Novel Ce^{3+} -Activated Phosphate Glass Scintillators. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 3692-3702	1.7	18
454	Effect of local dipole moments on the structure and lattice dynamics of $\text{K}_{0.98}\text{Li}_{0.02}\text{TaO}_3$. <i>Physical Review B</i> , 2008 , 78,	3.3	9
453	Pb+ irradiation of synthetic zircon (ZrSiO_4): Infrared spectroscopic investigation. <i>American Mineralogist</i> , 2008 , 93, 1418-1423	2.9	6
452	Magnetic and Structural Studies in Co- and Mn-implanted SrTiO_3 Single Crystals. <i>Ferroelectrics</i> , 2008 , 368, 120-130	0.6	12
451	Single-crystal $\text{CeCl}_3(\text{CH}_3\text{OH})_4$: A new metal-organic cerium chloride methanol adduct for scintillator applications. <i>Applied Physics Letters</i> , 2008 , 93, 244104	3.4	10
450	Resonant ultrasound spectroscopy of $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ ferroelectric relaxor crystals. <i>Physical Review B</i> , 2008 , 78,	3.3	12
449	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
448	Defects and Pd growth on the reduced $\text{SnO}_2(1\ 0\ 0)$ surface. <i>Surface Science</i> , 2008 , 602, 1699-1704	1.8	4
447	Photoelectrochemical studies of semiconducting photoanodes for hydrogen production via water dissociation. <i>Thin Solid Films</i> , 2008 , 516, 8175-8178	2.2	20
446	Raman investigations of rare earth orthovanadates. <i>Journal of Applied Physics</i> , 2007 , 101, 053511	2.5	62
445	Cerium-doped mixed-alkali rare-earth double-phosphate scintillators for thermal neutron detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 579, 19-22	1.2	11
444	Enthalpies of formation of rare earth orthovanadates, REVO_4 . <i>Journal of Solid State Chemistry</i> , 2007 , 180, 847-851	3.3	37
443	Cathodoluminescence from mixed $\text{KTaO}_3\text{-KNbO}_3$ crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 905-909		2
442	Low-temperature Raman spectra of YbVO_4 . <i>Vibrational Spectroscopy</i> , 2007 , 45, 95-98	2.1	9
441	New rare-earth-activated phosphate glass scintillators 2007 ,		4
440	Unusual fluorescence emission characteristics from europium-doped lead phosphate glass caused by 3 MeV proton irradiation 2007 ,		3
439	Optical characterization of Nd^{3+} - and Er^{3+} -doped lead-indium-phosphate glasses. <i>Journal of Applied Physics</i> , 2007 , 102, 043113	2.5	19
438	Performance of new ceramic scintillators for gamma- and x-ray detection 2007 ,		2

437	Applications of First Principles Theory to Inorganic Radiation Detection Materials. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1038, 1		2
436	Electronic structure of Pb- and non-Pb-based phosphate scintillators. <i>Physical Review B</i> , 2006 , 74,	3.3	9
435	Pressure-induced structural transitions and phase decomposition in the Cd ₂ Nb ₂ O ₇ pyrochlore. <i>Physical Review B</i> , 2006 , 74,	3.3	22
434	Scanning transmission electron microscopy investigations of interfacial layers in HfO ₂ gate stacks. <i>Journal of Applied Physics</i> , 2006 , 100, 024103	2.5	27
433	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	3.4	36
432	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
431	UV Light-Induced IR Absorption and Photoconductivity in KTa _{1-x} Nb _x O ₃ . <i>Ferroelectrics</i> , 2006 , 334, 113-123	3.6	6
430	Cerium-doped mixed-alkali rare-earth double-phosphate scintillators for x- and gamma-ray detection 2006 ,		3
429	Effects of phonon coupling and free carriers on band-edge emission at room temperature in n-type ZnO crystals. <i>Applied Physics Letters</i> , 2006 , 89, 251906	3.4	26
428	Cathodoluminescence Emission Studies for Selected Phosphor-Based Sensor Materials. <i>IEEE Transactions on Nuclear Science</i> , 2006 , 53, 2398-2403	1.7	9
427	Dielectric properties and lattice dynamics of Ca-doped K _{0.95} Li _{0.05} TaO ₃ . <i>Physical Review B</i> , 2006 , 74,	3.3	24
426	Dielectric properties and phase transitions of Cd ₂ Nb ₂ O ₇ : Effects of pressure and temperature. <i>Journal of Applied Physics</i> , 2006 , 100, 074112	2.5	14
425	[1-100]/(11-22) Twin Boundaries in Wurtzite ZnO and Group III-Nitrides. <i>Microscopy and Microanalysis</i> , 2006 , 12, 1374-1375	0.5	1
424	Metallographic Investigations of Solidification Microstructures and Melt-Pool Characteristics in Oriented Single Crystals of Stainless Steel. <i>Microscopy and Microanalysis</i> , 2006 , 12, 1604-1605	0.5	2
423	Optical nonlinearities and the ultrafast phase transition of VO ₂ nanoparticles and thin films 2006 , 6118, 222		1
422	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
421	Ion-beam implantation and cross-sectional TEM characterization of Gd ₂ Ti ₂ O ₇ pyrochlore. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 242, 448-451	1.2	15
420	Radiation-induced effects in pyrochlores and nanoscale materials engineering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 250, 128-136	1.2	32

419	Irradiation-induced nanostructures in cadmium niobate pyrochlores. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 250, 188-191	1.2	3
418	Vibrational spectra of monazite-type rare-earth orthophosphates. <i>Optical Materials</i> , 2006 , 29, 224-230	3.3	113
417	Ultrafast Control of a Surface Plasmon Resonance via the Insulator to Metal Transition in VO ₂ Nanoparticles. <i>Springer Series in Chemical Physics</i> , 2005 , 792-794	0.3	
416	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
415	4f _n →5d→4f _n 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
414	Photoinduced phase transition in VO ₂ nanocrystals: ultrafast control of surface-plasmon resonance. <i>Optics Letters</i> , 2005 , 30, 558-60	3	150
413	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
412	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
411	Focused Ion Beam-Induced Ripple and Nanoparticle Formation in Cd ₂ Nb ₂ O ₇ . <i>Microscopy and Microanalysis</i> , 2005 , 11,	0.5	1
410	Surface treatment for forming unit-cell steps on the (001) KTaO ₃ substrate surface. <i>Applied Surface Science</i> , 2005 , 241, 271-278	6.7	12
409	Preliminary investigation of KTN as a surface acoustic wave infrared/thermal detector. <i>Sensors and Actuators A: Physical</i> , 2005 , 119, 358-364	3.9	13
408	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	3.1	13
407	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	1.2	31
406	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	1.2	1
405	Nonuniform Heating in Zinc Oxide Varistors Studied by Infrared Imaging and Computer Simulation. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2013-2022	3.8	17
404	Cadmium Nanowire Formation Induced by Ion Irradiation. <i>Advanced Materials</i> , 2005 , 17, 1602-1606	24	24
403	Dielectric response of K(Ta,Nb)O ₃ thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 289-293	2.6	3
402	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		6

- 401 X-ray and pulsed electron beam excited luminescence and optical absorption in KTaO₃ crystals. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2005**, 2, 200-203 2
- 400 [1100][1102] twin boundaries in wurtzite ZnO and group-III-nitrides. *Physical Review B*, **2005**, 71, 3.3 24
- 399 Characteristics of unannealed ZnMgO/ZnO p-n junctions on bulk (100) ZnO substrates. *Applied Physics Letters*, **2005**, 86, 172103 3.4 52
- 398 Annealing-environment effects on the properties of CoPt nanoparticles formed in single-crystal Al₂O₃ by ion implantation. *Journal of Applied Physics*, **2005**, 98, 114311 2.5 9
- 397 Low dielectric losses in annealed Ti-doped K(Ta,Nb)O₃ thin films grown by pulsed laser deposition. *Journal Physics D: Applied Physics*, **2005**, 38, 1331-1336 3 6
- 396 Raman scattering study of Tb(V_{1-x}P_x)O₄ single crystals. *Journal of Applied Physics*, **2004**, 95, 1148-1151 2.5 28
- 395 Dielectric response of asymmetric KNbO₃/TaO₃ superlattices. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2004**, 22, 2010-2013 2.9 7
- 394 Switchable reflectivity on silicon from a composite VO₂-SiO₂ protecting layer. *Applied Physics Letters*, **2004**, 85, 1410-1412 3.4 44
- 393 Phonon spectra of terbium-doped lutetium orthophosphates. *Journal of Applied Physics*, **2004**, 96, 6344-6347 3.4 5
- 392 FePt nanoparticles formed in Al₂O₃ by ion beam synthesis: Annealing environment effects. *Journal of Applied Physics*, **2004**, 95, 8160-8166 2.5 17
- 391 Brillouin-Scattering Study of the Elastic Constants of ErVO₄. *Journal of the American Ceramic Society*, **2004**, 85, 1001-1003 3.8 23
- 390 Low-temperature phase transformations in weakly doped quantum paraelectrics: novel features and quantum reentrant dipolar glass state in KTa_{0.982}Nb_{0.018}O₃. *Journal of Physics and Chemistry of Solids*, **2004**, 65, 1317-1327 3.9 8
- 389 Formation enthalpies of rare earth titanate pyrochlores. *Journal of Solid State Chemistry*, **2004**, 177, 1858-1866 3.139
- 388 Single-crystal elastic constants of Fe-15Ni-15Cr alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2004**, 35, 3149-3154 2.3 59
- 387 Growth of semiconducting KTaO₃ thin films. *Solid-State Electronics*, **2004**, 48, 51-54 1.7 8
- 386 Effects of High Dose Ni, Fe, Co, and Mn Implantation into SnO₂. *Electrochemical and Solid-State Letters*, **2004**, 7, G309 21
- 385 Thermochemistry of the alkali rare-earth double phosphates, A₃RE(PO₄)₂. *Journal of Materials Research*, **2004**, 19, 2165-2175 2.5 54
- 384 Optical nonlinearities in VO₂ nanoparticles and thin films. *Applied Physics Letters*, **2004**, 85, 5191-5193 3.4 56

383	Scintillation and luminescence properties of Ce-activated K ₃ Lu(PO ₄) ₂ . <i>Journal of Alloys and Compounds</i> , 2004 , 380, 191-195	5.7	19
382	Cerium-activated rare-earth orthophosphate and double-phosphate scintillators for x- and gamma-ray detection 2004 ,		11
381	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
380	Radiation-induced amorphization of rare-earth titanate pyrochlores. <i>Physical Review B</i> , 2003 , 68,	3.3	264
379	Size effects in the irradiation-induced crystalline-to-amorphous transformation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 207, 28-35	1.2	34
378	Microstructure and magnetic properties of Co nanoparticles in ion-implanted Al ₂ O ₃ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 207, 36-44	1.2	24
377	Effect of ion irradiation in cadmium niobate pyrochlores. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 207, 85-91	1.2	5
376	Particle-solid interactions and 21st century materials science. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 212, 1-7	1.2	3
375	Rb ₃ Lu(PO ₄) ₂ :Ce and Cs ₃ Lu(PO ₄) ₂ :Ce [new promising scintillator materials. <i>Crystal Research and Technology</i> , 2003 , 38, 275-282	1.3	35
374	Using EPR spectroscopy to go from the Jahn-Teller effect to nuclear waste disposal. <i>Journal of Solid State Chemistry</i> , 2003 , 171, 445-454	3.3	3
373	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
372	Ferromagnetism in Co- and Mn-doped ZnO. <i>Solid-State Electronics</i> , 2003 , 47, 2231-2235	1.7	86
371	Scanning tunneling microscopy study of the anatase (100) surface. <i>Surface Science</i> , 2003 , 529, L239-L244	1.8	69
370	The order-disorder transition in ion-irradiated pyrochlore. <i>Acta Materialia</i> , 2003 , 51, 1493-1502	8.4	191
369	Advances in wide bandgap materials for semiconductor spintronics. <i>Materials Science and Engineering Reports</i> , 2003 , 40, 137-168	30.9	375
368	Ferromagnetism in cobalt-implanted ZnO. <i>Applied Physics Letters</i> , 2003 , 83, 5488-5490	3.4	241
367	Wide band gap ferromagnetic semiconductors and oxides. <i>Journal of Applied Physics</i> , 2003 , 93, 1-13	2.5	918
366	Ferromagnetism in Mn-implanted ZnO:Sn single crystals. <i>Applied Physics Letters</i> , 2003 , 82, 239-241	3.4	382

- 365 Spectroscopic ellipsometry of thin film and bulk anatase (TiO₂). *Journal of Applied Physics*, **2003**, 93, 9537-9541
- 364 Ion beam synthesis of magnetic CoPt alloys in Al₂O₃. *Journal of Magnetism and Magnetic Materials*, **2003**, 260, 319-329 2.8 28
- 363 Effects of Co Implantation in BaTiO₃, SrTiO₃, and KTaO₃. *Electrochemical and Solid-State Letters*, **2003**, 6, J1 5
- 362 Properties of Mn-Implanted BaTiO₃, SrTiO₃, and KTaO₃. *Electrochemical and Solid-State Letters*, **2003**, 6, G19 30
- 361 Surface structure and dynamics of KTaO₃(001). *Physical Review B*, **2003**, 68, 3.3 10
- 360 Oriented ferromagnetic Fe-Pt alloy nanoparticles produced in Al₂O₃ by ion-beam synthesis. *Journal of Applied Physics*, **2003**, 93, 5656-5669 2.5 45
- 359 Microstructural evolution and nanocrystal formation in Pb²⁺-implanted ZrSiO₄ single crystals. *Journal of Applied Physics*, **2003**, 94, 5695-5703 2.5 17
- 358 Jahn-Teller effects in the mixed vanadate/phosphate crystals TbV_{1-x}P_xO₄ (0. *Physical Review B*, **2003**, 67, 3.3 9
- 357 4. Synthesis, Structure, and Properties of Monazite, Pretulite, and Xenotime **2002**, 87-122 12
- 356 Ferromagnetic FePt nanoparticles formed in Al₂O₃ by ion implantation. *Nuclear Instruments & Methods in Physics Research B*, **2002**, 191, 437-441 1.2 18
- 355 LuPO₄:Nd and YPO₄:Nd new promising VUV scintillation materials. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2002**, 486, 239-243 1.2 44
- 354 Amorphization and recrystallization of the ABO₃ oxides. *Journal of Nuclear Materials*, **2002**, 300, 242-254 3.3 96
- 353 STM study of the geometric and electronic structure of ZnO(0001)-Zn, (0001)-O, (0001)-H, and (0001)-F surfaces. *Surface Science*, **2002**, 519, 201-217 1.8 352
- 352 Synthesis, Structure, and Properties of Monazite, Pretulite, and Xenotime. *Reviews in Mineralogy and Geochemistry*, **2002**, 48, 87-121 7.1 142
- 351 Nanocrystalline zirconia can be amorphized by ion irradiation. *Physical Review Letters*, **2002**, 88, 025503 7.4 103
- 350 Is Tsallis thermodynamics nonextensive?. *Physical Review Letters*, **2002**, 88, 020601 7.4 35
- 349 Recent Developments in K_{1-x}Li_xTa_{1-y}Nb_yO₃ Investigations. *Ferroelectrics*, **2002**, 267, 221-228 0.6 2
- 348 Antiferroelectric behavior in symmetric KNbO₃/KTaO₃ superlattices. *Physical Review Letters*, **2002**, 88, 097601 7.4 90

347	Irradiation-induced formation of nanoparticles in cadmium niobate pyrochlore. <i>Applied Physics Letters</i> , 2002 , 80, 670-672	3.4	10
346	Magnetic force microscopy of ferromagnetic nanoparticles formed in Al ₂ O ₃ and SiO ₂ by ion implantation. <i>Journal of Applied Physics</i> , 2002 , 92, 6200-6204	2.5	20
345	Long-Range Displacive to Short-Range Order-Disorder Crossover in Weakly Concentrated KTa _{1-x} Nb _x O ₃ . <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 7176-7178	1.4	2
344	Structural Alterations in Titanate Pyrochlores Induced by Ion Irradiation: X-ray Photoelectron Spectrum Interpretation. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 713, 1		2
343	Evidence for Antiferroelectric Behavior in KNbO ₃ /KTaO ₃ Superlattices. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 720, 641		2
342	Temperature-controlled surface plasmon resonance in VO ₂ (2) nanorods. <i>Optics Letters</i> , 2002 , 27, 1327-93		83
341	Size effects in the structural phase transition of VO ₂ nanoparticles. <i>Physical Review B</i> , 2002 , 65,	3.3	293
340	Effect of Li-Dipoles in K _{1-x} Li _x Ta _{1-y} Nb _y O ₃ : A Raman Study. <i>Ferroelectrics</i> , 2002 , 272, 87-92	0.6	
339	VUV scintillation of LuPO ₄ /sub 4/:Nd and YPO ₄ /sub 4/:Nd. <i>IEEE Transactions on Nuclear Science</i> , 2002 , 49, 937-940	1.7	15
338	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
337	STM study of Cu growth on the ZnO() surface. <i>Surface Science</i> , 2002 , 504, 271-281	1.8	75
336	Lattice and magnetic properties of ErVO ₄ and ErPO ₄ . <i>Physical Review B</i> , 2002 , 66,	3.3	11
335	Crystalline phase transitions of K ₃ Lu(PO ₄) ₂ . An electron paramagnetic resonance peculiar view. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2002 , 58, c145-c145		3
334	Contamination in the Rare-Earth Element Orthophosphate Reference Samples. <i>Journal of Research of the National Institute of Standards and Technology</i> , 2002 , 107, 693-701	1.3	11
333	Nanocomposite Materials Formed by Ion Implantation. <i>Advanced Materials</i> , 2001 , 13, 1431-1444	24	229
332	Thermochemistry of rare-earth orthophosphates. <i>Journal of Materials Research</i> , 2001 , 16, 2623-2633	2.5	196
331	Raman study of phonon modes in ErVO ₄ single crystals. <i>Journal of Applied Physics</i> , 2001 , 90, 1843-1846	2.5	40
330	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

- 329 Controlling the Microstructure and Magnetic Properties of Ferromagnetic Nanocrystals Produced by Ion Implantation. *Materials Research Society Symposia Proceedings*, **2001**, 703, 1
- 328 Nanocrystals in crystalline silicon: Void formation and hollow particles. *Journal of Materials Research*, **2001**, 16, 2670-2679 2.5 17
- 327 Li and Nb codoping in dielectric properties and phase transitions of KTaO₃: Reentrant dipolar glass and long-range dipole ordering. *Radiation Effects and Defects in Solids*, **2001**, 155, 367-371 0.9
- 326 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 3.4 88
- 325 Dipole ordering effects and reentrant dipolar glass state in KTaO₃:Li,Nb. *Physical Review B*, **2001**, 63, 3.3 9
- 324 Irradiation-induced amorphization of Cd₂Nb₂O₇ pyrochlore. *Physical Review B*, **2001**, 63, 3.3 31
- 323 Observation of a metastable periodic structure for the (001) surface of KTaO₃ after cleaving in situ. *Physical Review Letters*, **2001**, 86, 4867-70 7.4 11
- 322 Nanoscale manipulation of pyrochlore: new nanocomposite ionic conductors. *Physical Review Letters*, **2001**, 87, 145901 7.4 133
- 321 X-ray photoelectron spectroscopy study of irradiation-induced amorphization of Gd₂Ti₂O₇. *Applied Physics Letters*, **2001**, 79, 1989-1991 3.4 37
- 320 Role of magnetostatic interactions in assemblies of Fe nanoparticles. *Journal of Applied Physics*, **2001**, 89, 7594-7596 2.5 13
- 319 Structural effects of Li and Nb codoping in a KTaO₃ matrix: A Raman investigation. *Radiation Effects and Defects in Solids*, **2001**, 155, 259-263 0.9
- 318 . *IEEE Transactions on Magnetics*, **2001**, 37, 2197-2199 2 15
- 317 Using Ion Beams to Modify Nanocrystalline Composites: Co Nanoparticles in Sapphire. *Materials Research Society Symposia Proceedings*, **2001**, 703, 1
- 316 Formation of Ferromagnetic FePt Nanoparticles by Ion Implantation. *Materials Research Society Symposia Proceedings*, **2001**, 704, 771 1
- 315 A comparison of radiation effects in crystalline ABO₄-type phosphates and silicates. *Mineralogical Magazine*, **2000**, 64, 185-194 1.7 72
- 314 The extra brillouin doublets and central peak of KTaO₃: Second sound vs. two-phonon difference scattering. *Ferroelectrics*, **2000**, 239, 25-32 0.6 6
- 313 Dielectric properties and phase transitions in K_{1-x}Li_xTa_{1-y}Nb_yO₃:Cu. *Ferroelectrics*, **2000**, 239, 305-312 0.6 13
- 312 Nanophase Composites Produced by Ion Implantation: Properties, Problems, and Potential. *Materials Research Society Symposia Proceedings*, **2000**, 647, 1

- 311 Nanophase Composites Produced by Ion Implantation: Properties, Problems, and Potential. *Materials Research Society Symposia Proceedings*, **2000**, 650, 1211
- 310 The broad Brillouin doublets and central peak of KTaO₃. *Physica B: Condensed Matter*, **2000**, 276-278, 274-275 2.8 5
- 309 Spectroscopic refractive indices of metalorthophosphates with the zircon-type structure. *Optical Materials*, **2000**, 15, 103-109 3.3 33
- 308 Ion irradiation effects in nonmetals: formation of nanocrystals and novel microstructures. *Materials Research Innovations*, **2000**, 3, 190-204 1.9 36
- 307 Magneto-optical effects from nanophase γ -Fe and Fe₃O₄ precipitates formed in yttrium-stabilized ZrO₂ by ion implantation and annealing. *Applied Physics Letters*, **2000**, 77, 711-713 3.4 29
- 306 Ferroelectric-to-relaxor crossover and oxygen vacancy hopping in the compositionally disordered perovskites KTa_{1-x}Nb_xO₃:Ca. *Physical Review B*, **2000**, 61, 3889-3896 3.3 62
- 305 Chromatographic studies of the structures of amorphous phosphates: a review. *Journal of Non-Crystalline Solids*, **2000**, 263-264, 155-166 3.9 34
- 304 Ion-Beam-Induced Defects and Defects Interactions in Perovskite-Structure Titanates **2000**, 317-328 8
- 303 A transmission electron microscopy investigation of sulfide nanocrystals formed by ion implantation. *Journal of Materials Research*, **1999**, 14, 4489-4502 2.5 36
- 302 Formation and phase transition of VO₂ precipitates embedded in sapphire. *Journal of Materials Research*, **1999**, 14, 2602-2610 2.5 16
- 301 Dynamic coupling of crystal-field and phonon states in YbPO₄. *Physical Review B*, **1999**, 60, R12549-R12553 3.5 17
- 300 Formation of oriented particles in an amorphous host: ZnS nanocrystals in silicon. *Applied Physics Letters*, **1999**, 74, 697-699 3.4 13
- 299 Heavy-ion irradiation effects in the ABO₄ orthosilicates: Decomposition, amorphization, and recrystallization. *Physical Review B*, **1999**, 59, 3981-3992 3.3 73
- 298 Optical spectroscopy of erbium-doped lutetium orthophosphate. *Journal of Luminescence*, **1999**, 85, 155-161 3.8 39
- 297 Optical functions of BiI₃ as measured by generalized ellipsometry. *Physical Review B*, **1999**, 59, 9718-9724 3.3 37
- 296 The structure of lead-indium phosphate and lead-cadmium phosphate glasses. *Journal of Non-Crystalline Solids*, **1999**, 258, 48-56 3.9 13
- 295 Optical spectroscopy and lasing properties of neodymium-doped lutetium orthophosphate. *Journal of the Optical Society of America B: Optical Physics*, **1999**, 16, 911 1.7 44
- 294 The Formation of High-Coercivity, Oriented, Nanophase Cobalt Precipitates in Al₂O₃ Single Crystals by Ion Implantation. *Materials Research Society Symposia Proceedings*, **1999**, 581, 71 7

- 293 A transient liquid-like phase in the displacement cascades of zircon, hafnion and thorite. *Nature*, **1998**, 395, 56-58 50.4 116
- 292 Pulsed laser deposition of solid-solution films using segmented targets. *Thin Solid Films*, **1998**, 312, 156-159 38
- 291 Structure of zinc polyphosphate glasses. *Journal of Non-Crystalline Solids*, **1998**, 226, 287-293 3.9 34
- 290 Radiation damage in zircon and monazite. *Geochimica Et Cosmochimica Acta*, **1998**, 62, 2509-2520 5.5 298
- 289 Optical functions of uniaxial ZnO determined by generalized ellipsometry. *Physical Review B*, **1998**, 58, 3586-3589 3.3 187
- 288 Prospects for dense, infrared emitting scintillators. *IEEE Transactions on Nuclear Science*, **1998**, 45, 462-467 49
- 287 Crystal-field splitting, magnetic interaction, and vibronic excitations of 244Cm^{3+} in YPO_4 and LuPO_4 . *Journal of Chemical Physics*, **1998**, 109, 6800-6808 3.9 16
- 286 Long-range ferroelectric interactions in $\text{KTaO}_3/\text{KNbO}_3$ superlattice structures. *Applied Physics Letters*, **1998**, 72, 2535-2537 3.4 84
- 285 X-Ray Diffraction Measurement of the Effect of Layer Thickness on the Ferroelectric Transition in Epitaxial $\text{KTaO}_3/\text{KNbO}_3$ Multilayers. *Physical Review Letters*, **1998**, 80, 4317-4320 7.4 153
- 284 Modulation of the nonlinear optical response by KNbO_3 thin films deposited on a KTaO_3 substrate **1998**, 3491, 745 1
- 283 Transient grating in $\text{KNbO}_3/\text{KTaO}_3$ superlattice **1998**, 3425, 182
- 282 Radiation Effects in Nonmetals: Amorphization, Phase Decomposition, and Nanoparticles. *Materials Research Society Symposia Proceedings*, **1998**, 540, 135 4
- 281 Ion-Implantation/Annealing-Induced Precipitation of Nanophase Ferromagnetic Particles in Yttrium-Stabilized ZrO_2 . *Materials Research Society Symposia Proceedings*, **1998**, 540, 225 12
- 280 The Effect of Temperature and Damage Energy on Amorphization in Zircon. *Materials Research Society Symposia Proceedings*, **1998**, 540, 367 7
- 279 Radiation Effects in Zircon, Hafnion, and Thorite: Implications for Pu Disposal. *Materials Research Society Symposia Proceedings*, **1998**, 540, 395 1
- 278 Ion exchange in potassium titanyl phosphate. *Applied Physics Letters*, **1997**, 71, 756-758 3.4 13
- 277 Semiconducting epitaxial films of metastable $\text{SrRu}_{0.5}\text{Sn}_{0.5}\text{O}_3$ grown by pulsed laser deposition. *Applied Physics Letters*, **1997**, 70, 2147-2149 3.4 27
- 276 Phase Transitions During Ion-Beam Irradiation of the Perovskite-structure Oxides. *Materials Research Society Symposia Proceedings*, **1997**, 481, 401 4

275	Microstructural development in single crystal nickel base superalloy welds. <i>Science and Technology of Welding and Joining</i> , 1997 , 2, 109-118	3-7	35
274	A New Approach to the Fabrication of Smart Near-Surface Nanostructure Composites. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 501, 137		3
273	Properties Of CoSb ₃ Films Grown by Pulsed Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 478, 217		10
272	Response of Zircon to Electron and Ne ⁺ Irradiation. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 481, 419		5
271	Chemical and Sonochemical Approaches to the Formation of VO ₂ Films and VO ₂ -Impregnated Materials. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 495, 439		2
270	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
269	Welding of nickel base superalloy single crystals. <i>Science and Technology of Welding and Joining</i> , 1997 , 2, 79-88	3-7	71
268	Sonochemical Synthesis of C ₆₀ H ₂ . <i>Journal of Physical Chemistry B</i> , 1997 , 101, 123-128	3-4	30
267	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
266	Characterization of crystal field and nuclear quadrupole interactions in the 5D ₁ state of 243Am ³⁺ in LaCl ₃ and CaWO ₄ . <i>Journal of Alloys and Compounds</i> , 1997 , 250, 347-351	5-7	6
265	Crystal field splitting and anomalous thermal expansion in YbVO ₄ . <i>Journal of Alloys and Compounds</i> , 1997 , 250, 569-572	5-7	9
264	Lattice dynamics of LuPO ₄ . <i>Journal of Alloys and Compounds</i> , 1997 , 250, 573-576	5-7	10
263	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
262	Optically active surfaces formed by ion implantation and thermal treatment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 127-128, 553-556	1-2	9
261	Displacive radiation effects in the monazite- and zircon-structure orthophosphates. <i>Physical Review B</i> , 1997 , 56, 13805-13814	3-3	139
260	Polarization dependence of phonon and electronic Raman intensities in PrVO ₄ and NdVO ₄ . <i>Physical Review B</i> , 1997 , 56, 7974-7987	3-3	22
259	Lattice dynamics of xenotime: The phonon dispersion relations and density of states of LuPO ₄ . <i>Physical Review B</i> , 1997 , 56, 11584-11592	3-3	32
258	Elastic-constant anomalies in YbPO ₄ . <i>Physical Review B</i> , 1996 , 53, 2286-2290	3-3	29

257	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
256	Excited state absorption and fluorescence line narrowing studies of Cm ³⁺ in LuPO ₄ . <i>Journal of Chemical Physics</i> , 1996 , 105, 2539-2546	3.9	32
255	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
254	Single-point diamond turning of lead indium phosphate glass 1996 , 2863, 90		2
253	Monazite- and zircon-type structures of seven mixed (Ln/Ln) PO ₄ compounds. <i>Inorganica Chimica Acta</i> , 1996 , 244, 247-252	2.7	24
252	Structural investigations of several LnVO ₄ compounds. <i>Inorganica Chimica Acta</i> , 1996 , 248, 85-88	2.7	73
251	The Formation of Metal/Metal-Matrix Nanocomposites by the Ultrasonic Dispersion of Immiscible Liquid Metals. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 457, 243		6
250	Time-sliced Mössbauer absorption spectroscopy using synchrotron radiation and a resonant Bragg monochromator. <i>Journal of Applied Physics</i> , 1996 , 79, 3686-3690	2.5	10
249	Stability of ion-implanted layers on MgO under ultrasonic cavitation. <i>Journal of Applied Physics</i> , 1996 , 80, 2781-2787	2.5	3
248	Substrate dependence in the growth of epitaxial Pb _{1-x} La _x TiO ₃ thin films. <i>Applied Physics Letters</i> , 1996 , 69, 2187-2189	3.4	9
247	Effect of KTa _{1-x} Nb _x O ₃ crystal orientation on the nonlinear optical response in the picoseconds degenerate-four-wave mixing. <i>Optical Materials</i> , 1995 , 4, 691-699	3.3	8
246	Quadrupolar effects in the temperature dependence of the lattice parameters of HoP _{1-x} V _x O ₄ . <i>Physical Review B</i> , 1995 , 51, 5644-5648	3.3	25
245	Annealing-environment effects in the epitaxial regrowth of ion-beam-amorphized layers on CaTiO ₃ . <i>Journal of Applied Physics</i> , 1995 , 78, 1519-1527	2.5	10
244	Spectroscopic studies and crystal-field analysis of Cm ³⁺ and Gd ³⁺ in LuPO ₄ . <i>Physical Review B</i> , 1995 , 52, 12668-12676	3.3	31
243	Scintillation mechanisms in rare earth orthophosphates. <i>Radiation Effects and Defects in Solids</i> , 1995 , 135, 305-310	0.9	19
242	Anomalous temperature dependence of the lattice parameters in HoPO ₄ and HoVO ₄ : rare earth quadrupolar effects. <i>Journal of Alloys and Compounds</i> , 1995 , 225, 595-598	5.7	19
241	Optical Properties of Epitaxial Plt Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 401, 267		1
240	Characterization of high-temperature thermographic phosphors: spectral properties of LuPO ₄ (4):Dy(1%),Eu(2%). <i>Applied Optics</i> , 1995 , 34, 5624-7	1.7	38

- 239 Crystal-field excitations and magnetic properties of Ho³⁺ in HoVO₄. *Physical Review B*, **1995**, 51, 12451-12457 19
- 238 Pulsed Laser Deposition of Epitaxial Sr(Ru_xSn_{1-x})O₃ Thin Film Electrodes and KNbO₃/Sr(Ru_xSn_{1-x})O₃ Bilayers. *Materials Research Society Symposia Proceedings*, **1995**, 401, 203 1
- 237 Optical Switching of Coherent VO₂ Precipitates Embedded in Sapphire. *Materials Research Society Symposia Proceedings*, **1995**, 396, 215 1
- 236 Application of single crystals to achieve quantitative understanding of weld microstructures. *Materials Science and Technology*, **1995**, 11, 939-948 1.5 9
- 235 The measurement and analysis of epitaxial recrystallization kinetics in ion-beam-amorphized SrTiO₃. *Journal of Materials Research*, **1994**, 9, 3113-3120 2.5 14
- 234 Hardness and elastic modulus of zircon as a function of heavy-particle irradiation dose:. *Radiation Effects and Defects in Solids*, **1994**, 132, 131-141 0.9 19
- 233 Raman scattering and x-ray diffraction investigations of highly textured (Pb_{1-x}Lax)TiO₃ thin films. *Applied Physics Letters*, **1994**, 64, 2350-2352 3.4 13
- 232 Hydrogen catalyzed crystallization of strontium titanate. *Journal of Applied Physics*, **1994**, 76, 2711-2718 2.5 28
- 231 Interface stability and the growth of optical quality perovskites on MgO. *Physical Review Letters*, **1994**, 72, 2741-2744 7.4 114
- 230 Domain formation and strain relaxation in epitaxial ferroelectric heterostructures. *Physical Review B*, **1994**, 49, 14865-14879 3.3 214
- 229 Measurement of the soft polariton in KTa_{0.93}Nb_{0.07}O₃ by time-resolved four-wave mixing. *Physical Review B*, **1994**, 50, 16295-16308 3.3 10
- 228 Polarization dependence of the nonlinear optical responses of KTa_{1-x}Nb_xO₃ crystals after picosecond-pulse laser excitation. *Physical Review B*, **1994**, 49, 6323-6326 3.3 18
- 227 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 3.3 256
- 226 Disorder and thermal transport in undoped KTaO₃. *Journal of Physics Condensed Matter*, **1994**, 6, 4077-4092 4.2 78
- 225 Unstable Neck Formation during Initial-Stage Sintering. *Journal of the American Ceramic Society*, **1994**, 77, 1987-1990 3.8 22
- 224 Rare earth energy levels and magnetic properties of DyPo₄. *Journal of Alloys and Compounds*, **1994**, 207-208, 165-169 5.7 12
- 223 Epitaxial KNbO₃ thin films on KTaO₃, MgAl₂O₄, and MgO substrates. *Applied Physics Letters*, **1994**, 65, 1073-1075 3.4 33
- 222 Optical functions of transparent thin films of SrTiO₃, BaTiO₃, and SiO_x determined by spectroscopic ellipsometry. *Applied Optics*, **1994**, 33, 6053-8 1.7 69

221	Cerium-Doped Orthophosphate Scintillators. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 348, 123		26
220	Growth and Properties of PbTiO ₃ /PLT Heterostructures. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 361, 313		3
219	The Structure of Lead-Indium Phosphate Glass. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 376, 661		3
218	Spectroscopic studies of magnetic transitions in TbPO ₄ . <i>Journal of Applied Physics</i> , 1994 , 75, 7030-7032	2.5	7
217	Lead-indium phosphate glasses for optical applications 1994 , 2287, 126		
216	Structural properties of the amorphous phases produced by heating crystalline MgHPO ₄ ·BH ₂ O. <i>Journal of Non-Crystalline Solids</i> , 1993 , 159, 121-139	3.9	18
215	Atomic layer-by-layer surface removal by force microscopy. <i>Surface Science</i> , 1993 , 293, L863-L869	1.8	12
214	Crystal-field excitations and magnetic properties of TmPO ₄ . <i>Journal of Chemical Physics</i> , 1993 , 98, 4214-4222	3.2	28
213	Anomalous dispersion and thermal expansion in lightly-doped KTa _{1-x} Nb _x O ₃ . <i>Ferroelectrics</i> , 1993 , 150, 47-58	0.6	8
212	Neutron study of crystal-field transitions in ErPO ₄ . <i>Journal of Applied Physics</i> , 1993 , 73, 6069-6071	2.5	11
211	Rare-earth energy levels and magnetic properties of HoPO ₄ and ErPO ₄ . <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 5121-5140	1.8	27
210	Two-photon excitation of the 4f ¹ →5d ¹ transitions of Ce ³⁺ in LuPO ₄ and YPO ₄ . <i>Physical Review B</i> , 1993 , 47, 14786-14794	3.3	23
209	Zero-field splitting of Cm ³⁺ in LuPO ₄ single crystals. <i>Physical Review B</i> , 1993 , 48, 12704-12712	3.3	10
208	Electron paramagnetic resonance of Pu ³⁺ and Cf ³⁺ in single crystals of LuPO ₄ . <i>Physical Review B</i> , 1993 , 47, 3412-3414	3.3	7
207	Epitaxial YBa ₂ Cu ₃ O ₇ growth on KTaO ₃ (001) single crystals. <i>Applied Physics Letters</i> , 1993 , 63, 3376-3378	3.4	12
206	Soft-mode studies in KTa _{0.93} Nb _{0.07} O ₃ with use of the time-resolved third-order optical susceptibility χ ₃ . <i>Physical Review B</i> , 1993 , 47, 1-4	3.3	25
205	Difference Raman spectra of PbTiO ₃ thin films grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 1993 , 62, 349-351	3.4	30
204	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

203	Ground-state wave functions of Tb ³⁺ ions in paramagnetic TbPO ₄ : A neutron scattering study. <i>Physical Review B</i> , 1993 , 48, 6124-6131	3.3	26
202	Structural Analysis of Amorphous Phosphates Using High Performance Liquid Chromatography. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 321, 13		1
201	Raman Spectra of MOCVD-Grown Ferroelectric PbTiO ₃ Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 335, 75		
200	X-ray Absorption Spectroscopy of the Rare Earth Orthophosphates. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 307, 95		3
199	Characterization of Ce-DOPED LaPO ₄ by X-Ray Absorption Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 329, 91		1
198	Refinement of the Structures of the Layer Silicates MCuSi ₄ O ₁₀ (M = Ca, Sr, Ba) by Rietveld Analysis of Neutron Powder Diffraction Data. <i>Journal of Solid State Chemistry</i> , 1993 , 103, 105-113	3.3	33
197	Infrared and Raman investigations of OH impurities in doped and pure KTaO ₃ single crystals. <i>Solid State Communications</i> , 1993 , 87, 63-66	1.6	3
196	Plastic flow induced by ionization processes in ion-damaged MgO. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 80-81, 1210-1214	1.2	14
195	Microstructural formation in longitudinal bicrystal welds. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1993 , 24, 1433-1446	2.3	19
194	. <i>IEEE Transactions on Nuclear Science</i> , 1993 , 40, 384-387	1.7	84
193	Study of ferroelectric microdomains due to oxygen vacancies in KTaO ₃ . <i>Ferroelectrics</i> , 1992 , 137, 105-110.	1.6	15
192	The effect of annealing environments on the epitaxial recrystallization of ion-beam-amorphized SrTiO ₃ . <i>Journal of Materials Research</i> , 1992 , 7, 717-724	2.5	29
191	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
190	Ion-implanted optical waveguides in KTaO ₃ . <i>Journal of Applied Physics</i> , 1992 , 71, 49-52	2.5	20
189	Study of epitaxial platinum thin films grown by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , 1992 , 72, 3735-3740	2.5	22
188	Observation of strong electron-phonon coupling effects in YbPO ₄ . <i>Physical Review B</i> , 1992 , 45, 5027-5030.	3.3	37
187	Dipole-glass behavior of lightly doped KTa _{1-x} Nb _x O ₃ . <i>Physical Review B</i> , 1992 , 46, 5116-5121	3.3	20
186	Electronic damage in the ion-beam amorphization of Pb ₂ P ₂ O ₇ . <i>Physical Review B</i> , 1992 , 46, 3215-3218	3.3	11

- ¹⁸⁵ Textured Coatings from Colloidal Suspensions of Faceted Oxide Microcrystals. *Materials Research Society Symposia Proceedings*, **1992**, 286, 33
- ¹⁸⁴ Strain relaxation by domain formation in epitaxial ferroelectric thin films. *Physical Review Letters*, **1992**, 68, 3733-3736 7.4 144
- ¹⁸³ Structural evolution of the amorphous solids produced by heating crystalline $\text{MgHPO}_4 \cdot 3\text{H}_2\text{O}$. *Journal of Materials Research*, **1992**, 7, 2646-2649 2.5 9
- ¹⁸² Protons and other defects in Fe-doped KTaO_3 . *Applied Physics A: Solids and Surfaces*, **1992**, 55, 324-331 29
- ¹⁸¹ Single-crystal analysis of mixed (Ln/TbPO₄) orthophosphates. *Journal of Solid State Chemistry*, **1992**, 99, 313-318 3.3 12
- ¹⁸⁰ Multiple ion implantation effects on hardness and fatigue properties of Fe₇₁Cr₁₃Ni₁₅ alloys. *Journal of Nuclear Materials*, **1992**, 191-194, 748-753 3.3 2
- ¹⁷⁹ Oxide ferroelectric materials grown by metalorganic chemical vapor deposition. *Journal of Crystal Growth*, **1992**, 124, 684-689 1.6 29
- ¹⁷⁸ Ion bombardment, ultrasonic, and pulsed laser beam effects on small metallic clusters of potassium in MgO. *Surface and Coatings Technology*, **1992**, 51, 471-475 4.4 10
- ¹⁷⁷ Preferred alignment of twin boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_x$ thin films and $\text{YBa}_2\text{Cu}_3\text{O}_x/\text{PrBa}_2\text{Cu}_3\text{O}_x$ superlattices on SrTiO_3 . *Applied Physics Letters*, **1991**, 58, 2174-2176 3.4 39
- ¹⁷⁶ Origin of picosecond-pulse-induced, degenerate four-wave-mixing signals in $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ crystals. *Journal of Applied Physics*, **1991**, 70, 20-28 2.5 34
- ¹⁷⁵ Infrared study of oxygen vacancies in KTaO_3 . *Physical Review B*, **1991**, 43, 7555-7560 3.3 21
- ¹⁷⁴ Effect of niobium doping on the properties of picosecond laser-induced transient gratings in $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$. *Physical Review B*, **1991**, 44, 2461-2469 3.3 26
- ¹⁷³ Dielectric and raman study of short and long range order in KTN. *Ferroelectrics*, **1991**, 120, 107-112 0.6 1
- ¹⁷² Dielectric nonlinearity and spontaneous polarization of $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ in the diffuse transition range. *Physical Review B*, **1991**, 43, 8297-8302 3.3 39
- ¹⁷¹ Characterization of Textured Ceramics by Electron Paramagnetic Resonance Spectroscopy: I, Concepts and Theory. *Journal of the American Ceramic Society*, **1990**, 73, 2333-2344 3.8 9
- ¹⁷⁰ Characterization of Textured Ceramics by Electron Paramagnetic Resonance Spectroscopy: II, Formation and Properties of Textured MgO. *Journal of the American Ceramic Society*, **1990**, 73, 2345-2359 3.8 11
- ¹⁶⁹ Microstructure of stainless steel single-crystal electron beam welds. *Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science*, **1990**, 21, 1753-1766 51
- ¹⁶⁸ 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 191

167	Time resolved reflectivity measurements in Pb-implanted SrTiO ₃ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990 , 46, 98-101	1.2	23
166	Ion irradiation effects for MgF ₂ films on LiF substrates. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990 , 46, 422-426	1.2	3
165	A structural investigation of several mixed lanthanide orthophosphates. <i>Inorganica Chimica Acta</i> , 1990 , 174, 155-159	2.7	21
164	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
163	Raman and fluorescence spectra of ferroelectric microregions in KTaO ₃ . <i>Ferroelectrics</i> , 1990 , 107, 73-77	0.6	21
162	Longitudinal elastic behavior of the mixed ferroelectric KTN. <i>Ferroelectrics</i> , 1990 , 112, 255-262	0.6	5
161	Structural differences between the glass state and ion-beam-amorphized states of lead pyrophosphate. <i>Journal of Non-Crystalline Solids</i> , 1990 , 126, 179-193	3.9	31
160	Static and Time Dependent Magnetization Studies of YBa ₂ Cu ₃ O ₇ Thin Films 1990 , 385-392		
159	Magnetic ordering in the high-temperature superconductor ErBa ₂ Cu ₃ O _{7-δ} . <i>Physical Review B</i> , 1989 , 39, 4291-4294	3.3	26
158	Single-crystal neutron-diffraction investigation of the magnetic ordering of the high-temperature superconductor ErBa ₂ Cu ₃ O _{7-δ} . <i>Physical Review B</i> , 1989 , 40, 2624-2626	3.3	29
157	Optical study and analysis of Pu ⁴⁺ in single crystals of ZrSiO ₄ . <i>Physical Review B</i> , 1989 , 39, 6388-6394	3.3	15
156	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
155	Epitaxial superconducting thin films of YBa ₂ Cu ₃ O _{7-δ} on KTaO ₃ single crystals. <i>Applied Physics Letters</i> , 1989 , 54, 1063-1065	3.4	47
154	Excitation profiles of resonance electronic Raman scattering in ErPO ₄ crystals. <i>Physical Review B</i> , 1989 , 40, 1288-1296	3.3	14
153	Electron paramagnetic resonance investigations of divalent cobalt in single crystals of perovskite (CaTiO ₃). <i>Journal of Chemical Physics</i> , 1989 , 91, 5117-5118	3.9	4
152	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
151	Structural inequivalence of the ion-damage-produced amorphous state and the glass state in lead pyrophosphate. <i>Physical Review Letters</i> , 1989 , 62, 1138-1141	7.4	22
150	Development of microstructures in Fe ₅₀ Ni ₅₀ Cr single crystal electron beam welds. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1989 , 20, 1125-1138		156

149	The annealing behavior of ion-implanted single crystals of the type YBa ₂ Cu ₃ O _x . <i>Nuclear Instruments & Methods in Physics Research B</i> , 1989 , 40-41, 608-611	1.2	4
148	. <i>IEEE Transactions on Magnetism</i> , 1989 , 25, 2324-2327	2	6
147	Ion implantation and thermal annealing of high-T _c single crystals of YBa ₂ Cu ₃ O _x . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1989 , 109, 311-315	5.3	
146	Comparison between LaGaO ₃ , LaAlO ₃ , KTaO ₃ , and SrTiO ₃ substrates for the epitaxial growth of YBa ₂ Cu ₃ O _{7-x} thin films by a BaF ₂ process. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 655-656	1.3	13
145	Study of protons in acceptor-doped KTaO ₃ crystals by IR and EPR techniques. <i>Journal of Solid State Chemistry</i> , 1989 , 83, 221-229	3.3	20
144	Ion implantation and annealing of crystalline oxides. <i>Materials Science and Engineering Reports</i> , 1989 , 4, 41-146		238
143	Fluorescence and ferroelectric microregions in KTaO ₃ . <i>Journal of Physics Condensed Matter</i> , 1989 , 1, 2515-2520	1.8	22
142	The effect of gamma irradiation on the superconducting properties of GdBa ₂ Cu ₃ O ₇ . <i>Materials Letters</i> , 1989 , 8, 171-174	3.3	8
141	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
140	Magnetic Flux Pinning in YBa ₂ Cu ₃ O ₇ Films. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 169, 903		
139	In Situ Growth of Epitaxial Superconducting Yba ₂ Cu ₃ O _{7-x} Films on Insulating, Semiconducting and Ferroelectric K(Ta,Nb)O ₃ by Pulsed Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 169, 469		
138	Electrical Transport Dissipation Effects in Epitaxial Y1ba ₂ cu ₃ o ₇ .X Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 169, 883		7
137	Chemically sensitive structure-imaging with a scanning transmission electron microscope. <i>Nature</i> , 1988 , 336, 565-567	50.4	563
136	Elastic anomalies at the cubic-tetragonal transition in KTN. <i>Solid State Communications</i> , 1988 , 68, 353-356	6.6	9
135	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
134	An in situ annealing study of lead implanted single crystal calcium titanate. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1988 , 32, 28-31	1.2	17
133	Surface reactions of synthetic, end-member analogues of monazite, xenotime and rhabdophane, and evolution of natural waters. <i>Geochimica Et Cosmochimica Acta</i> , 1988 , 52, 767-770	5.5	16
132	Ion implantation and thermal annealing of single crystals of the type YBa ₂ Cu ₃ O _x . <i>Materials Letters</i> , 1988 , 6, 374-378	3.3	11

131	Magnetic properties of oxygen-reduced, rare-earth based $R\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ compounds with $R=\text{Gd}$, Dy , and Ho . <i>Physical Review B</i> , 1988 , 37, 9395-9400	3.3	20
130	Magnetic ordering in $\text{GdBa}_2\text{Cu}_3\text{O}_{6.14}$. <i>Physical Review B</i> , 1988 , 38, 12008-12010	3.3	42
129	Optical and EPR investigations of Np^{4+} in single crystals of ZrSiO_4 . <i>Physical Review B</i> , 1988 , 37, 3255-3264	3.3	18
128	Magnetic ordering in the high-temperature superconductor GdBa_2Cu . <i>Physical Review B</i> , 1988 , 37, 2341-2344	3.3	136
127	Excited state absorption of Sm^{2+} in SrF_2 and SrCl_2 . <i>Journal of Chemical Physics</i> , 1988 , 88, 6751-6756	3.9	21
126	Pulsed laser deposition of thin superconducting films of $\text{HoBa}_2\text{Cu}_3\text{O}_7$ and $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Journal of Materials Research</i> , 1988 , 3, 1169-1179	2.5	23
125	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
124	Thermal conductivity of pure KTaO_3 . <i>Ferroelectrics</i> , 1988 , 79, 249-252	0.6	3
123	Independent superconductivity and paramagnetism in $\text{HoBa}_2\text{Cu}_3\text{O}_z$. <i>Physical Review B</i> , 1987 , 36, 836-839	3.3	30
122	Promethium-doped phosphate glass laser at 933 and 1098 nm. <i>Applied Physics Letters</i> , 1987 , 51, 2186-2188	3.3	13
121	Time-dependent phase transformation in $\text{KTaO}_3:\text{Li}$. <i>Physical Review B</i> , 1987 , 35, 223-227	3.3	36
120	EPR and optical-absorption studies of Ce^{3+} in YPO_4 and LuPO_4 single crystals. <i>Physical Review B</i> , 1987 , 35, 3057-3061	3.3	10
119	Magnetization and susceptibility studies of the superconductive compound $\text{GdBa}_2\text{Cu}_3\text{O}_z$. <i>Physical Review B</i> , 1987 , 36, 718-721	3.3	38
118	EPR characterization of Er^{3+} and Yb^{3+} in single crystals of synthetic perovskite (CaTiO_3). <i>Journal of Chemical Physics</i> , 1987 , 86, 5267-5272	3.9	7
117	Magnetic Investigations of Superconductive, Polycrystalline $(\text{RE})\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ Compounds ($\text{RE} = \text{Y}$, Gd , Ho , Dy). <i>Materials Research Society Symposia Proceedings</i> , 1987 , 99, 361		
116	Oxygen Stoichiometry and Superconductivity in $\text{HoBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Materials Research Society Symposia Proceedings</i> , 1987 , 99, 591		1
115	Deposition of High T_c Superconductor thin Films by Pulsed Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , 1987 , 99, 699		2
114	Structural alterations in the amorphous-to-crystalline transformation of lead pyrophosphate. <i>Physical Review Letters</i> , 1987 , 59, 1718-1721	7.4	21

113	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
112	Fast Neutron Damage Studies of La _{1.85} Sr _{0.15} CuO ₄ . <i>Japanese Journal of Applied Physics</i> , 1987 , 26, 1185-1194	1.4	20
111	Ion Implantation and Annealing of Oxides. <i>Materials Research Society Symposia Proceedings</i> , 1986 , 74, 357		18
110	Protonic conduction in acceptor-doped KTaO ₃ crystals. <i>Solid State Ionics</i> , 1986 , 18-19, 989-993	3.3	66
109	Luminescence of Cu ⁺ centers in SrCl ₂ . <i>Journal of Luminescence</i> , 1986 , 35, 171-177	3.8	14
108	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
107	Crystal structure of 1:1 gadolinium/ytterbium orthophosphate. <i>Inorganica Chimica Acta</i> , 1986 , 118, 173-176	1.7	16
106	Alpha-recoil damage in zirconolite (CaZrTi ₂ O ₇). <i>Journal of Materials Research</i> , 1986 , 1, 564-576	2.5	82
105	Low-Temperature Phonon Scattering in Pure and Li-Doped KTaO ₃ . <i>Springer Series in Solid-state Sciences</i> , 1986 , 272-274	0.4	
104	Resonance electronic Raman scattering in erbium phosphate crystals. <i>Optics Letters</i> , 1986 , 11, 282	3	21
103	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
102	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
101	EPR observations of trivalent titanium in orthophosphate single crystals. <i>Journal of Chemical Physics</i> , 1986 , 85, 1-6	3.9	15
100	Characterization of Lead-Iron Phosphate Nuclear Waste Glasses. <i>Materials Research Society Symposia Proceedings</i> , 1985 , 50, 231		3
99	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
98	Structural refinements of praseodymium and neodymium orthophosphate. <i>Journal of Solid State Chemistry</i> , 1985 , 58, 71-77	3.3	58
97	Ion channeling studies of KTaO ₃ :Nb. <i>Solid State Communications</i> , 1985 , 55, 759-763	1.6	11
96	Disorder-induced dynamic fluctuations in KTN. <i>Solid State Communications</i> , 1985 , 55, 451-454	1.6	11

95	Liquid Chromatography and Raman Scattering Spectroscopy Measurements of Lead-Iron Phosphate Glasses. <i>Materials Research Society Symposia Proceedings</i> , 1985 , 61, 455		1
94	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
93	Critical quasielastic light scattering in KTa _{0.968} Nb _{0.032} O ₃ . <i>Physical Review B</i> , 1985 , 31, 1438-1448	3.3	27
92	Structural properties of lead-iron phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 1985 , 71, 103-112	3.9	63
91	Optical properties of Nd ³⁺ in lead phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 1985 , 74, 167-170	3.9	42
90	The observation by EPR of trivalent hafnium in LuPO ₄ , YPO ₄ , and ScPO ₄ . <i>Journal of Chemical Physics</i> , 1985 , 83, 2754-2758	3.9	13
89	EPR and thermoluminescence investigations of Mn ²⁺ in LuPO ₄ , YPO ₄ , and ScPO ₄ . <i>Journal of Chemical Physics</i> , 1985 , 83, 6113-6120	3.9	12
88	The occurrence and stability of trivalent zirconium in orthophosphate single crystals. <i>Journal of Chemical Physics</i> , 1984 , 81, 5362-5366	3.9	18
87	Ninefold coordination LaPO ₄ : Pentagonal interpenetrating tetrahedral polyhedron. <i>Inorganica Chimica Acta</i> , 1984 , 95, 231-236	2.7	132
86	Electrolytic coloration and electrical breakdown of MgO single crystals. <i>Journal of Solid State Chemistry</i> , 1984 , 51, 1-16	3.3	20
85	Surface layer formation on corroded nuclear waste glasses. <i>Journal of Non-Crystalline Solids</i> , 1984 , 67, 245-264	3.9	19
84	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	3.9	58
83	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
82	Lead-iron phosphate glass: a stable storage medium for high-level nuclear waste. <i>Science</i> , 1984 , 226, 45-8	3.3	172
81	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
80	Crystal data for lanthanide orthophosphates with the zircon-type structure. <i>Inorganica Chimica Acta</i> , 1983 , 77, L23-L25	2.7	19
79	The structures of three lanthanide orthophosphates. <i>Inorganica Chimica Acta</i> , 1983 , 70, 133-136	2.7	64
78	Application of ion implantation and backscattering techniques to the analysis of nuclear waste glass corrosion. <i>Materials Letters</i> , 1983 , 2, 1-5	3.3	3

77	An EPR study of rare-earth impurities in single crystals of the zircon-structure orthophosphates ScPO ₄ , YPO ₄ , and LuPO ₄ a). <i>Journal of Chemical Physics</i> , 1983 , 78, 3-10	3.9	36
76	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
75	The correlation of hydrogen diffusion with the relative concentrations of cubic and axial Fe ³⁺ sites in KTaO ₃ . <i>Journal of Chemical Physics</i> , 1983 , 78, 660-664	3.9	22
74	Structures of ErPO ₄ , TmPO ₄ , and YbPO ₄ . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1983 , 39, 23-24		49
73	Electron-paramagnetic-resonance investigations of Cm ³⁺ 243 and Cm ³⁺ 244 in LuPO ₄ single crystals. <i>Physical Review B</i> , 1982 , 26, 1434-1437	3.3	19
72	Brillouin spectra of K _{1-x} Li _x TaO ₃ under poled and zero-field-cooled conditions. <i>Physical Review B</i> , 1982 , 26, 2759-2764	3.3	30
71	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
70	Anomalous temperature effect on the Fe ³⁺ -cubic crystalline field splitting in KTaO ₃ (EPR study). <i>Journal of Physics C: Solid State Physics</i> , 1982 , 15, 3371-3379		16
69	EPR investigations of Fe ³⁺ in single crystals and powders of the zircon-structure orthophosphates LuPO ₄ , YPO ₄ , and ScPO ₄ . <i>Journal of Chemical Physics</i> , 1982 , 76, 40-45	3.9	19
68	Rutherford backscattering investigation of the corrosion of borosilicate nuclear waste glass. <i>Journal of Non-Crystalline Solids</i> , 1982 , 53, 201-226	3.9	23
67	Structural investigations of YPO ₄ , ScPO ₄ , and LuPO ₄ . <i>Inorganica Chimica Acta</i> , 1982 , 60, 39-43	2.7	160
66	Electronic Raman spectra of iron doped MgO. <i>Solid State Communications</i> , 1982 , 44, 709-710	1.6	4
65	Very low-temperature search for superconductivity in semiconducting KTaO ₃ . <i>Journal of Low Temperature Physics</i> , 1982 , 47, 467-475	1.3	15
64	The structure of cerium orthophosphate, a synthetic analogue of monazite. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1981 , 43, 101-105		114
63	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
62	Raman scattering studies of ferroelectric transitions induced by lithium and niobium in KTaO ₃ . <i>Ferroelectrics</i> , 1981 , 38, 877-877	0.6	
61	Raman spectra of the rare earth orthophosphates. <i>Journal of Raman Spectroscopy</i> , 1981 , 11, 273-278	2.3	192
60	Raman scattering studies of the effects of a symmetry-breaking impurity on the ferroelectric phase transition in K _{1-x} Li _x Ta _{1-y} Nb _y O ₃ . <i>Solid State Communications</i> , 1981 , 40, 697-701	1.6	30

59	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
58	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
57	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
56	STUDY OF "PURE" KTaO ₃ AND KTN SINGLE CRYSTALS BY THERMAL CONDUCTIVITY MEASUREMENTS DOWN TO 50 mK. <i>Journal De Physique Colloque</i> , 1981 , 42, C6-424-C6-426		7
55	The Characterization of Nuclear Waste Forms by EPR Spectroscopy 1981 , 181-188		3
54	EPR Investigations of Impurities in the Lanthanide Orthophosphates. <i>Materials Research Society Symposia Proceedings</i> , 1980 , 3, 475		
53	Photorefractive effects in the cubic phase of potassium tantalate-niobate. <i>Optics Communications</i> , 1980 , 35, 45-48	2	49
52	KTN as a holographic storage material. <i>Ferroelectrics</i> , 1980 , 27, 247-250	0.6	53
51	The excitation by light pulses of mechanical vibrations in solids. <i>Applied Physics Letters</i> , 1980 , 36, 736-738	3.4	6
50	Size effects in the crystal field of small dielectric particles of SrCl ₂ : Gd ³⁺ . <i>Physical Review B</i> , 1980 , 21, 906-925	3.3	23
49	Infrared spectra of hydrogen isotopes in potassium tantalate. <i>Journal of Chemical Physics</i> , 1980 , 73, 1073-1077	3.9	55
48	EPR investigations of Gd ³⁺ in single crystals and powders of the zirconium orthophosphates YPO ₄ , ScPO ₄ , and LuPO ₄ . <i>Journal of Chemical Physics</i> , 1980 , 73, 1095-1103	3.9	48
47	Novel Measurement of Hyperfine Interactions in Solids: Pb ²⁰⁷ in YPO ₄ and LuPO ₄ . <i>Physical Review Letters</i> , 1980 , 45, 839-842	7.4	15
46	Low Temperature Thermal Conductivity of KTaO ₃ and KTN Single Crystals 1980 , 243-246		7
45	Monazite and Other Lanthanide Orthophosphates as Alternate Actinide Waste Forms. <i>Advances in Nuclear Science and Technology</i> , 1980 , 289-296		62
44	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
43	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
42	Electron paramagnetic resonance from actinide elements. <i>Reports on Progress in Physics</i> , 1978 , 41, 87-154	4.4	36

41	Extrinsic Peak in the Susceptibility of Incipient Ferroelectric KTaO ₃ : Li. <i>Physical Review Letters</i> , 1978 , 41, 1410-1413	7.4	62
40	Local polarizability of quantum paraelectrics and quantum ferroelectrics. <i>Ferroelectrics</i> , 1978 , 18, 223-225	6	2
39	Electromechanical properties and electron tunnelling in KTaO ₃ . <i>Journal of Physics C: Solid State Physics</i> , 1977 , 10, 4319-4333		18
38	Static, quasistatic, and quasidynamic Jahn-Teller effect in the EPR spectra of Ag ²⁺ in SrO, CaO, and MgO. <i>Physical Review B</i> , 1977 , 16, 86-106	3.3	35
37	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
36	Stable [Li] ⁰ Defects in MgO Single Crystals. <i>Physical Review Letters</i> , 1976 , 37, 849-852	7.4	87
35	Electron-paramagnetic-resonance investigations of divalent einsteinium-253 in SrCl ₂ and BaF ₂ . <i>Physical Review B</i> , 1976 , 13, 953-958	3.3	9
34	Dynamic, intermediate, and static Jahn-Teller effect in the EPR spectra of E ₂ orbital states. <i>Physical Review B</i> , 1975 , 12, 4735-4754	3.3	34
33	V ⁻ and V ⁰ centers in CaO single crystals. <i>Solid State Communications</i> , 1975 , 16, 1209-1213	1.6	34
32	EPR investigations of Dy ³⁺ and Yb ³⁺ in alkaline-earth oxide single crystals. <i>Journal of Chemical Physics</i> , 1974 , 60, 1593-1596	3.9	9
31	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
30	Electron-paramagnetic-resonance investigation of the dynamic Jahn-Teller effect for Sc ²⁺ in BaF ₂ , SrF ₂ , and CaF ₂ . <i>Physical Review B</i> , 1974 , 10, 833-843	3.3	23
29	EPR investigations of Eu ²⁺ in orthorhombic sites of NaCl. <i>Journal of Chemical Physics</i> , 1974 , 60, 4665-4669	3.9	30
28	EPR determination of the nuclear spins and magnetic moments of ²⁴³ Cm and ²⁴⁷ Cm. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1973 , 44, 527-528	2.3	22
27	Electron-Paramagnetic-Resonance Investigation of the Dynamic Jahn-Teller Effect in SrCl ₂ :Y ²⁺ and SrCl ₂ :Sc ²⁺ . <i>Physical Review B</i> , 1973 , 7, 3003-3013	3.3	23
26	Transition from Static to Dynamic Jahn-Teller Effects as Exhibited by the EPR Spectra of Ag ²⁺ in SrO, CaO, and MgO. <i>Physical Review Letters</i> , 1973 , 31, 7-10	7.4	33
25	EPR Investigation of Ti ²⁺ in SrCl ₂ Single Crystals. <i>Journal of Chemical Physics</i> , 1972 , 57, 3571-3572	3.9	4
24	Observation of a Quadrupole Interaction for Cubic Imperfections Exhibiting a Dynamic Jahn-Teller Effect. <i>Physical Review B</i> , 1972 , 5, 2500-2510	3.3	17

23	EPR Investigations of Ce ³⁺ in Cubic Sites of CaO, SrO, and BaO. <i>Physical Review Letters</i> , 1972 , 29, 18-22	7.4	29
22	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
21	Electron paramagnetic resonance of ²⁴⁹ Bk ⁴⁺ in ThO ₂ single crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1972 , 42, 93-94	2.3	32
20	Electron-Paramagnetic-Resonance Investigations of 5f ⁵ Configuration Ions in Cubic Single Crystals: Pu ³⁺ in ThO ₂ and SrCl ₂ , and Am ⁴⁺ in ThO ₂ . <i>Physical Review B</i> , 1971 , 3, 2864-2868	3.3	34
19	EPR Observations of Temperature Dependent Level Crossing for Gd ³⁺ in LaCl ₃ . <i>Journal of Chemical Physics</i> , 1971 , 54, 1827-1829	3.9	7
18	Cubic-Site EPR Spectra of Eu ²⁺ and Gd ³⁺ in MgO Single Crystals. <i>Physical Review B</i> , 1971 , 4, 2853-2857	3.3	23
17	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
16	EPR of ¹⁵³ Eu ²⁺ in Single Crystals of SrCl ₂ . <i>Journal of Chemical Physics</i> , 1970 , 52, 3851	3.9	12
15	Electron Paramagnetic Resonance Investigations of Divalent Americium and Trivalent Curium in Strontium Chloride. <i>Physical Review B</i> , 1970 , 1, 3555-3560	3.3	33
14	Averaging by Relaxation and the Dynamic Jahn-Teller Effect. <i>Physical Review Letters</i> , 1970 , 24, 984-986	7.4	19
13	Gd ³⁺ ESR Spectra in Cubic and Trigonal Sites of BaF ₂ . <i>Journal of Chemical Physics</i> , 1970 , 52, 1248-1249	3.9	34
12	Temperature Variation of Gd ³⁺ EPR Spectra in Cubic Crystals. <i>Journal of Chemical Physics</i> , 1969 , 51, 3134-3135	3.9	23
11	Electron Spin Resonance Spectra of Er ³⁺ and Yb ³⁺ in Single Crystals of SrCl ₂ . <i>Journal of Chemical Physics</i> , 1968 , 49, 745-749	3.9	10
10	Production of Divalent Thulium in CaO and SrCl ₂ . <i>Physical Review</i> , 1968 , 175, 485-488		6
9	Optical Transmission Cryocell for Semiconductor Devices. <i>Review of Scientific Instruments</i> , 1967 , 38, 1166-1166		
8	Temperature Variation of Gd ³⁺ Electron-Spin-Resonance Spectra in LaCl ₃ and LaBr ₃ Single Crystals. <i>Physical Review</i> , 1967 , 163, 213-219		13
7	Multimode operation in Gunn oscillators induced by cooling and illumination. <i>Proceedings of the IEEE</i> , 1967 , 55, 1228-1229	14.3	4
6	Paramagnetic resonance of Gd ³⁺ ions in SrCl ₂ single crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1967 , 25, 230-231	2.3	15

5	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
4	Alternating Current Power Losses in Superconducting Nb-Zr Alloys. <i>Journal of Applied Physics</i> , 1964 , 35, 2649-2655	2.5	21
3	Cathodoluminescence emission studies for selected phosphor-based sensor materials		1
2	Microstructural development in single crystal nickel base superalloy welds		6
1	Generalized Ellipsometry Measurements of Crystalline Thin Film and Bulk Tin Oxide. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2100378	1.6	0