

# John Budai

## List of Publications by Year in Descending Order

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

266 papers	11,989 citations	54 h-index	101 g-index
275 ext. papers	12,579 ext. citations	5.8 avg, IF	5.59 L-index

#	Paper	IF	Citations
266	Long-Range Antiferromagnetic Order in a Rocksalt High Entropy Oxide. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3705-3711	9.6	66
265	Intrinsic anharmonic localization in thermoelectric PbSe. <i>Nature Communications</i> , <b>2019</b> , 10, 1928	17.4	34
264	Supersonic propagation of lattice energy by phasons in fresnoite. <i>Nature Communications</i> , <b>2018</b> , 9, 1823	17.4	7
263	Correspondence: Reply to 'Phantom phonon localization in relaxors'. <i>Nature Communications</i> , <b>2017</b> , 8, 1936	17.4	2
262	Boundary migration in a 3D deformed microstructure inside an opaque sample. <i>Scientific Reports</i> , <b>2017</b> , 7, 4423	4.9	16
261	Giant electromechanical coupling of relaxor ferroelectrics controlled by polar nanoregion vibrations. <i>Science Advances</i> , <b>2016</b> , 2, e1501814	14.3	61
260	Ferroelectric Self-Poling, Switching, and Monoclinic Domain Configuration in BiFeO <sub>3</sub> Thin Films. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5166-5173	15.6	24
259	Three-mode coupling interference patterns in the dynamic structure factor of a relaxor ferroelectric. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	4
258	X-ray microscopy: Beyond ensemble averages. <i>Nature Materials</i> , <b>2015</b> , 14, 657-8	27	
257	Nanoscale Structure in AgSbTe <sub>2</sub> Determined by Diffuse Elastic Neutron Scattering. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 1536-1539	1.9	2
256	Strain Doping: Reversible Single-Axis Control of a Complex Oxide Lattice via Helium Implantation. <i>Physical Review Letters</i> , <b>2015</b> , 114, 256801	7.4	64
255	Crystal structures and optical properties of new quaternary strontium europium aluminate luminescent nanoribbons. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 778-788	7.1	5
254	New localized/delocalized emitting state of Eu <sup>2+</sup> in orange-emitting hexagonal EuAl <sub>2</sub> O <sub>4</sub> . <i>Scientific Reports</i> , <b>2014</b> , 4, 7101	4.9	13
253	Phonon localization drives polar nanoregions in a relaxor ferroelectric. <i>Nature Communications</i> , <b>2014</b> , 5, 3683	17.4	80
252	Metallization of vanadium dioxide driven by large phonon entropy. <i>Nature</i> , <b>2014</b> , 515, 535-9	50.4	192
251	Inhomogeneous deformation behavior in intercrystalline regions in polycrystalline Ni. <i>Acta Materialia</i> , <b>2014</b> , 65, 393-399	8.4	8
250	Focused-ion-beam induced damage in thin films of complex oxide BiFeO <sub>3</sub> . <i>APL Materials</i> , <b>2014</b> , 2, 022109	3.7	14

249	Phonon scattering rates and atomic ordering in $\text{Ag}_{1-x}\text{Sb}_x\text{Te}_{2+x}$ ( $x=0,0.1,0.2$ ) investigated with inelastic neutron scattering and synchrotron diffraction. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	12
248	New Ternary Europium Aluminate Luminescent Nanoribbons for Advanced Photonics. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1998-2006	15.6	11
247	In situ X-ray microdiffraction studies inside individual $\text{VO}_2$ microcrystals. <i>Acta Materialia</i> , <b>2013</b> , 61, 2751-2762	2.6	26
246	Correlation between structure and semiconductor-to-metal transition characteristics of $\text{VO}_2/\text{TiO}_2/\text{sapphire}$ thin film heterostructures. <i>Acta Materialia</i> , <b>2013</b> , 61, 7805-7815	8.4	39
245	Unit cell orientation of tetragonal-like $\text{BiFeO}_3$ thin films grown on highly miscut $\text{LaAlO}_3$ substrates. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 221910	3.4	9
244	Role of substrate crystallographic characteristics on structure and properties of rutile $\text{TiO}_2$ epilayers. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 044314	2.5	7
243	National School on Neutron and X-ray Scattering. <i>Synchrotron Radiation News</i> , <b>2013</b> , 26, 9-12	0.6	1
242	New yellow $\text{Ba}_{0.93}\text{Eu}_{0.07}\text{Al}_2\text{O}_4$ phosphor for warm-white light-emitting diodes through single-emitting-center conversion. <i>Light: Science and Applications</i> , <b>2013</b> , 2, e50-e50	16.7	334
241	Luminescent Nanoribbons: New Ternary Europium Aluminate Luminescent Nanoribbons for Advanced Photonics (Adv. Funct. Mater. 16/2013). <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1978-1978	15.6	
240	The 3D X-Ray Crystal Microscope: An Unprecedented Tool for ICME <b>2013</b> , 183-188		
239	Doping-based stabilization of the M2 phase in free-standing $\text{VO}_2$ nanostructures at room temperature. <i>Nano Letters</i> , <b>2012</b> , 12, 6198-205	11.5	120
238	Phase-specific elastic/plastic interface interactions in layered $\text{NiAlCr}(\text{Mo})$ structures. <i>Acta Materialia</i> , <b>2012</b> , 60, 3279-3286	8.4	19
237	Compositional disorder, polar nanoregions and dipole dynamics in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ -based relaxor ferroelectrics. <i>Zeitschrift für Kristallographie</i> , <b>2011</b> , 226, 99-107		42
236	The race to x-ray microbeam and nanobeam science. <i>Science</i> , <b>2011</b> , 334, 1234-9	33.3	231
235	Spectroscopic dielectric tensor of monoclinic crystals: $\text{CdWO}_4$ . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	39
234	Electromechanical actuation and current-induced metastable states in suspended single-crystalline $\text{VO}_2$ nanoribbons. <i>Nano Letters</i> , <b>2011</b> , 11, 3065-73	11.5	47
233	Lattice-Symmetry-Driven Phase Competition in Vanadium Dioxide. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1292, 67		1
232	Direct evidence of mesoscopic dynamic heterogeneities at the surfaces of ergodic ferroelectric relaxors. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	71

231	Interplay between ferroelastic and metal-insulator phase transitions in strained quasi-two-dimensional VO <sub>2</sub> nanoplatelets. <i>Nano Letters</i> , <b>2010</b> , 10, 2003-11	11.5	91
230	Symmetry relationship and strain-induced transitions between insulating M1 and M2 and metallic R phases of vanadium dioxide. <i>Nano Letters</i> , <b>2010</b> , 10, 4409-16	11.5	125
229	High-resolution x-ray and light beam induced current (LBIC) measurements of multicrystalline silicon solar cells <b>2010</b> ,		1
228	Nonpolar ZnO film growth and mechanism for anisotropic in-plane strain relaxation. <i>Acta Materialia</i> , <b>2010</b> , 58, 1097-1103	8.4	58
227	Structural characterization of two-step growth of epitaxial ZnO films on sapphire substrates at low temperatures. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 105409	3	21
226	Epitaxial growth of transparent tin oxide films on (0001) sapphire by pulsed laser deposition. <i>Materials Research Bulletin</i> , <b>2009</b> , 44, 6-10	5.1	32
225	Zinc Oxide Microtowers by Vapor Phase Homoepitaxial Regrowth. <i>Advanced Materials</i> , <b>2009</b> , 21, 890-896	2.4	32
224	Elastically driven anisotropic percolation in electronic phase-separated manganites. <i>Nature Physics</i> , <b>2009</b> , 5, 885-888	16.2	143
223	At the limit of polychromatic microdiffraction. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 524, 3-9	5.3	22
222	Thin film epitaxy and structure property correlations for non-polar ZnO films. <i>Acta Materialia</i> , <b>2009</b> , 57, 4426-4431	8.4	34
221	Structure and magnetism of cobalt-doped ZnO thin films. <i>New Journal of Physics</i> , <b>2008</b> , 10, 065002	2.9	150
220	Synthesis and characterization of porous TiO <sub>2</sub> with wormhole-like framework structure. <i>Journal of Porous Materials</i> , <b>2008</b> , 15, 21-27	2.4	8
219	Formation of oxidation-resistant Cu-Mg coatings on (001) Cu for oxide superconducting tapes. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 5136-5139	4.4	3
218	Polychromatic X-ray micro- and nanodiffraction for spatially-resolved structural studies. <i>Thin Solid Films</i> , <b>2008</b> , 516, 8013-8021	2.2	23
217	Ferromagnetism in pseudocubic BaFeO <sub>3</sub> epitaxial films. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 012514	3.4	32
216	S186 Invited X-ray Microdiffraction Techniques for Measuring Local Microstructure and Strain Distributions. <i>Powder Diffraction</i> , <b>2008</b> , 23, 189-189	1.8	
215	Characterization of growth defects in thin GaN layers with X-ray microbeam. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 1735-1742	1.3	6
214	Orientation and growth behavior of CaHfO <sub>3</sub> thin films on non-oxide substrates. <i>Materials Letters</i> , <b>2007</b> , 61, 3500-3503	3.3	2

213	Nanostructured GaN nucleation layer for light-emitting diodes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 2719-25	1.3	4
212	Spatially Resolved Characterization of Microstructure, Defects and Tilts in GaN Layers Grown on Si(111) Substrates by Maskless Cantilever Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 934, 1		
211	Spatially resolved distribution of dislocations and crystallographic tilts in GaN layers grown on Si(111) substrates by maskless cantilever epitaxy. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 053103	2.5	17
210	Growth of ZnO thin films on c-plane Al <sub>2</sub> O <sub>3</sub> by molecular beam epitaxy using ozone as an oxygen source. <i>Applied Surface Science</i> , <b>2006</b> , 252, 7442-7448	6.7	38
209	High-performance Kirkpatrick-Baez supermirrors for neutron milli- and micro-beams. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 437, 120-125	5.3	19
208	Phase stability and orientation of SrCu <sub>2</sub> O <sub>2</sub> films grown by pulsed laser deposition. <i>Thin Solid Films</i> , <b>2005</b> , 488, 173-177	2.2	8
207	Kirkpatrick-Baez microfocusing optics for thermal neutrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2005</b> , 539, 312-320	1.2	34
206	Properties of anatase CoxTi <sub>1-x</sub> O <sub>2</sub> thin films epitaxially grown by reactive sputtering. <i>Thin Solid Films</i> , <b>2005</b> , 488, 194-199	2.2	13
205	Polychromatic X-ray microdiffraction studies of mesoscale structure and dynamics. <i>Journal of Synchrotron Radiation</i> , <b>2005</b> , 12, 155-62	2.4	66
204	Annealing-environment effects on the properties of CoPt nanoparticles formed in single-crystal Al <sub>2</sub> O <sub>3</sub> by ion implantation. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 114311	2.5	9
203	Investigation of TiN seed Layers for RABiTS architectures with a single-Crystal-like out-of-plane texture. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 2981-2984	1.8	15
202	Spatial distribution and electronic state of Co in epitaxial anatase CoxTi <sub>1-x</sub> O <sub>2</sub> thin films grown by reactive sputtering. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2608-2610	3.4	59
201	FePt nanoparticles formed in Al <sub>2</sub> O <sub>3</sub> by ion beam synthesis: Annealing environment effects. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 8160-8166	2.5	17
200	2D and 3D X-Ray Structural Microscopy Using Submicron-Resolution Laue Microdiffraction. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 840, Q7.1.1		1
199	Deformation microstructure under microindents in single-crystal Cu using three-dimensional x-ray structural microscopy. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 66-72	2.5	38
198	Epitaxial growth of anatase by reactive sputter deposition using water vapor as the oxidant. <i>Thin Solid Films</i> , <b>2004</b> , 446, 18-22	2.2	26
197	Differential-aperture X-ray structural microscopy: a submicron-resolution three-dimensional probe of local microstructure and strain. <i>Micron</i> , <b>2004</b> , 35, 431-9	2.3	48
196	The three-dimensional X-ray crystal microscope: A new tool for materials characterization. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2004</b> , 35, 1963-1967	2.3	46

195	Micron-resolution 3-D measurement of local orientations near a grain-boundary in plane-strained aluminum using X-ray microbeams. <i>International Journal of Plasticity</i> , <b>2004</b> , 20, 543-560	7.6	31
194	Reactive sputter deposition of epitaxial (001) CeO <sub>2</sub> on (001) Ge. <i>Thin Solid Films</i> , <b>2004</b> , 468, 1-3	2.2	8
193	Cathodoluminescence from Thin Film Zn <sub>2</sub> GeO <sub>4</sub> :Mn Phosphor Grown by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, H188	3.9	43
192	Fabrication of high J <sub>c</sub> /YBa <sub>2</sub> /Cu <sub>3</sub> O <sub>7-δ</sub> tapes using the newly developed lanthanum manganate single buffer layers. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 2481-2483	1.8	25
191	Epitaxial (La,Sr)TiO <sub>3</sub> as a conductive buffer for high temperature superconducting coated conductors. <i>Solid-State Electronics</i> , <b>2003</b> , 47, 2177-2181	1.7	17
190	Properties of Mn-doped Cu <sub>2</sub> O semiconducting thin films grown by pulsed-laser deposition. <i>Solid-State Electronics</i> , <b>2003</b> , 47, 2215-2220	1.7	63
189	Magnetic properties of Co- and Mn-implanted BaTiO <sub>3</sub> , SrTiO <sub>3</sub> and KTaO <sub>3</sub> . <i>Solid-State Electronics</i> , <b>2003</b> , 47, 2225-2230	1.7	60
188	Ferromagnetism in Co- and Mn-doped ZnO. <i>Solid-State Electronics</i> , <b>2003</b> , 47, 2231-2235	1.7	86
187	Conductivity in transparent anatase TiO <sub>2</sub> films epitaxially grown by reactive sputtering deposition. <i>Solid-State Electronics</i> , <b>2003</b> , 47, 2275-2278	1.7	71
186	Advances in wide bandgap materials for semiconductor spintronics. <i>Materials Science and Engineering Reports</i> , <b>2003</b> , 40, 137-168	30.9	375
185	Epitaxial structure and transport in LaTiO <sub>3+x</sub> films on (001) SrTiO <sub>3</sub> . <i>Physica Status Solidi A</i> , <b>2003</b> , 200, 346-351		21
184	Evidence for pseudo-gap behavior in defect-doped infinite layer (Ca, Sr)CuO <sub>2</sub> thin films. <i>Physica Status Solidi (B): Basic Research</i> , <b>2003</b> , 236, 143-150	1.3	
183	Ferromagnetism in cobalt-implanted ZnO. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 5488-5490	3.4	241
182	Through-thickness superconducting and normal-state transport properties revealed by thinning of thick film ex situ YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> coated conductors. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3951-3953	3.4	35
181	Spectroscopic ellipsometry of thin film and bulk anatase (TiO <sub>2</sub> ). <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 9537-9541	1.9	223
180	X-ray microdiffraction study of growth modes and crystallographic tilts in oxide films on metal substrates. <i>Nature Materials</i> , <b>2003</b> , 2, 487-92	27	108
179	Ion beam synthesis of magnetic CoPt alloys in Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 260, 319-329	2.8	28
178	Effects of Co Implantation in BaTiO <sub>3</sub> , SrTiO <sub>3</sub> , and KTaO <sub>3</sub> . <i>Electrochemical and Solid-State Letters</i> , <b>2003</b> , 6, J1		5

177	Properties of Mn-Implanted BaTiO <sub>3</sub> , SrTiO <sub>3</sub> , and KTaO <sub>3</sub> . <i>Electrochemical and Solid-State Letters</i> , <b>2003</b> , 6, G19		30
176	Spatially resolved Poisson strain and anticlastic curvature measurements in Si under large deflection bending. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3856-3858	3.4	41
175	Oriented ferromagnetic Fe-Pt alloy nanoparticles produced in Al <sub>2</sub> O <sub>3</sub> by ion-beam synthesis. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 5656-5669	2.5	45
174	X-ray Microbeam Investigation of Deformation Microstructure in Microindented Cu. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 779, 5341		7
173	Ferromagnetic FePt nanoparticles formed in Al <sub>2</sub> O <sub>3</sub> by ion implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 191, 437-441	1.2	18
172	Epitaxial growth of CeO <sub>2</sub> on (100) InP using reactive r.f. magnetron sputtering. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 75, 699-702	2.6	4
171	(La,Sr)TiO <sub>3</sub> as a conductive buffer for RABiTS coated conductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 372-376, 818-820	1.3	4
170	Epitaxial stabilization of single crystal anatase films via reactive sputter deposition. <i>Thin Solid Films</i> , <b>2002</b> , 422, 166-169	2.2	36
169	Three-dimensional X-ray structural microscopy with submicrometre resolution. <i>Nature</i> , <b>2002</b> , 415, 887-904	90.4	597
168	Magnetic force microscopy of ferromagnetic nanoparticles formed in Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> by ion implantation. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 6200-6204	2.5	20
167	Hydrogen-assisted pulsed-laser deposition of epitaxial CeO <sub>2</sub> films on (001)InP. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 106-108	3.4	6
166	Photo- and low-voltage cathodoluminescence in lithium zinc gallate blue and green thin-film phosphors. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 2974-2977	2.5	15
165	Buried superconducting layers comprised of magnesium diboride nanocrystals formed by ion implantation. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4786-4788	3.4	16
164	Strontium silicide termination and silicate epitaxy on (001) Si. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2002</b> , 20, 257		20
163	Etching-enhanced Ablation and the Formation of a Microstructure in Silicon by Laser Irradiation in an SF <sub>6</sub> Atmosphere. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 1002-1013	2.5	22
162	Deformation Microstructure Under Nanoindentations in Cu Using 3D X-Ray Structural Microscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 750, 1		4
161	Deformation Microstructure Under Nanoindentations in Cu Using 3D X-Ray Structural Microscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 750, 1		1
160	Photoluminescence Dynamics of CdS Nanocrystals Fabricated by Sequential Ion Implantation. <i>Japanese Journal of Applied Physics</i> , <b>2001</b> , 40, 2092-2094	1.4	10



159	Critical current density of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> low-angle grain boundaries in self-field. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 2031-2033	3-4	34
158	Enhanced ultraviolet photoconductivity in semiconducting ZnGa <sub>2</sub> O <sub>4</sub> thin films. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 3863-3866	2-5	31
157	. <i>IEEE Transactions on Magnetism</i> , <b>2001</b> , 37, 2197-2199	2	15
156	Formation of Ferromagnetic FePt Nanoparticles by Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 704, 771		1
155	Epitaxial Oxide Thin-Film Phosphors for Low Voltage FED Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 621, 241		1
154	Epitaxial yttria-stabilized zirconia on biaxially-textured (001) Ni for YBCO coated conductor. <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 2481-2482	1-3	12
153	Epitaxial Growth and Luminescent Properties of Mn <sup>2+</sup> -Activated ZnGa <sub>2</sub> O <sub>4</sub> Films <b>2000</b> , 4, 293-297		6
152	The Effect of Size, Strain, and Long-Range Interactions on Ferroelectric Phase Transitions in KNbO <sub>3</sub> /KTaO <sub>3</sub> /KNbO <sub>3</sub> Superlattices Studied by X-ray, EXAFS, and Dielectric Measurements <b>2000</b> , 4, 279-287		11
151	Optical characterization of CdS nanocrystals in Al <sub>2</sub> O <sub>3</sub> matrices fabricated by ion-beam synthesis. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2289-2291	3-4	52
150	Pulsed-laser deposition of electronic oxides: superconductor and semiconductor applications <b>2000</b> , 3933, 124		
149	Magneto-optical effects from nanophase $\gamma$ -Fe and Fe <sub>3</sub> O <sub>4</sub> precipitates formed in yttrium-stabilized ZrO <sub>2</sub> by ion implantation and annealing. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 711-713	3-4	29
148	Photo- and cathodoluminescence characteristics of blue-light-emitting epitaxial Sr <sub>2</sub> CeO <sub>4</sub> thin-film phosphors. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 678-680	3-4	37
147	Nucleation of epitaxial yttria-stabilized zirconia on biaxially textured (001) Ni for deposited conductors. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2427-2429	3-4	33
146	Hydrogen-assisted pulsed-laser deposition of (001)CeO <sub>2</sub> on (001) Ge. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 1677-1679	3-4	40
145	Optical and structural properties of ZnO films deposited on GaAs by pulsed laser deposition. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 201-204	2-5	210
144	A transmission electron microscopy investigation of sulfide nanocrystals formed by ion implantation. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 4489-4502	2-5	36
143	Formation and phase transition of VO <sub>2</sub> precipitates embedded in sapphire. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 2602-2610	2-5	16
142	Formation of oriented particles in an amorphous host: ZnS nanocrystals in silicon. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 697-699	3-4	13



141	Effects of hydrogen in the annealing environment on photoluminescence from Si nanoparticles in SiO <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 396-401	2.5	111
140	Alternating transport-current flow in superconductive films: The role of a geometrical barrier to vortex motion. <i>Physical Review B</i> , <b>1999</b> , 60, 6878-6883	3.3	14
139	Long length fabrication of YBCO on rolling assisted biaxially textured substrates (RABiTS) using pulsed laser deposition. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1999</b> , 9, 2276-2279	1.8	27
138	Plume-induced stress in pulsed-laser deposited CeO <sub>2</sub> films. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 2134-2136	3.4	28
137	Enhanced photoluminescence in epitaxial ZnGa <sub>2</sub> O <sub>4</sub> :Mn thin-film phosphors using pulsed-laser deposition. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 3155-3157	3.4	78
136	X-Ray Microbeam Measurement of Local Texture and Strain in Metals. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 563, 169		14
135	Strain and Texture in Al-Interconnect Wires Weasured by X-Ray Microbeam Diffraction. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 563, 175		24
134	The Formation of High-Coercivity, Oriented, Nanophase Cobalt Precipitates in Al <sub>2</sub> O <sub>3</sub> Single Crystals by Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 581, 71		7
133	Epitaxial Electronic Oxides on Semiconductors Using Pulsed-Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 587, O3.7.1		
132	3-D Measurement of Deformation Microstructure in Al(0.2%)Mg Using Submicron Resolution White X-ray Microbeams. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 590, 247		14
131	Epitaxial Film Growth of Tl <sub>0.78</sub> Bi <sub>0.22</sub> Sr <sub>1.6</sub> Ba <sub>0.4</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>9</sub> on Rolling Assisted Biaxially Textured Nickel Substrates with YSZ And CeO <sub>2</sub> Buffer Layers. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1998</b> , 11, 159-161		17
130	High Critical Current Density YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> Tapes Using the RABiTs Approach. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1998</b> , 11, 481-487		39
129	Selenium nanoparticles formed by ion implantation into fused silica. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1998</b> , 141, 284-288	1.2	7
128	The role of defect excesses in damage formation in Si during ion implantation at elevated temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1998</b> , 253, 240-248	5.3	18
127	Epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films on rolled-textured metals for high-temperature superconducting applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1998</b> , 56, 86-94	3.1	40
126	Bend strain tolerance of critical currents for YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films deposited on rolled-textured (001)Ni. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 1904-1906	3.4	49
125	Characterization of zinc implanted silica: Effects of thermal annealing and picosecond laser radiation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1998</b> , 16, 1409-1413	2.9	35
124	Optical Properties of Si Nanocrystals Formed in SiO <sub>2</sub> by Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 507, 249		11

123	Formation of ZnAl <sub>2</sub> O <sub>4</sub> and MgAl <sub>2</sub> O <sub>4</sub> Spinel in Al <sub>2</sub> O <sub>3</sub> by Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 540, 219		5
122	Ion-Implantation/Annealing-Induced Precipitation of Nanophase Ferromagnetic Particles in Yttrium-Stabilized ZrO <sub>2</sub> . <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 540, 225		12
121	Nanostructured Arrays Formed by Finely Focused Ion Beams. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 536, 251		2
120	Semiconducting epitaxial films of metastable SrRu <sub>0.5</sub> Sn <sub>0.5</sub> O <sub>3</sub> grown by pulsed laser deposition. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 2147-2149	3-4	27
119	Influence of oxygen background pressure on crystalline quality of SrTiO <sub>3</sub> films grown on MgO by pulsed laser deposition. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 1709-1711	3-4	22
118	Conductors with controlled grain boundaries: An approach to the next generation, high temperature superconducting wire. <i>Journal of Materials Research</i> , <b>1997</b> , 12, 2924-2940	2-5	150
117	A New Approach to the Fabrication of Smart Near-Surface Nanostructure Composites. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 501, 137		3
116	Ion Beam Synthesis Of Cds, ZnS, And PbS Compound Semiconductor Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 504, 399		6
115	Epitaxial Growth of Oxide Thin Films on (001) Metal Surfaces Using Pulsed-Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 474, 401		2
114	Temperature Dependence and Annealing Effects of Absorption Edges for Selenium Quantum Dots Formed By Ion Implantation in Silica Glass. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 481, 501		
113	Alternating current losses in biaxially textured YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Films deposited on Ni tapes. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 2029-2031	3-4	30
112	Low cost, single crystal-like substrates for practical, high efficiency solar cells <b>1997</b> ,		5
111	Synthesis and Physical Properties of Semiconductor Nanocrystals Formed by Ion Implantation. <i>ACS Symposium Series</i> , <b>1997</b> , 198-212	0-4	2
110	High quality optoelectronic grade epitaxial AlN films on Al <sub>2</sub> O <sub>3</sub> , Si and 6H-SiC by pulsed laser deposition. <i>Thin Solid Films</i> , <b>1997</b> , 299, 94-103	2-2	46
109	Deposition of biaxially-oriented metal and oxide buffer-layer films on textured Ni tapes: new substrates for high-current, high-temperature superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 275, 155-161	1-3	110
108	Epitaxial superconducting thin films Tl <sub>0.78</sub> Bi <sub>0.22</sub> Sr <sub>1.6</sub> Ba <sub>0.4</sub> Ca <sub>2</sub> O <sub>9</sub> on (001) YSZ synthesized by laser ablation and post-annealing in pure argon. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 277, 13-18	1-3	14
107	Controlling the size, structure and orientation of semiconductor nanocrystals using metastable phase recrystallization. <i>Nature</i> , <b>1997</b> , 390, 384-386	50-4	95
106	Growth of biaxially textured buffer layers on rolled-Ni substrates by electron beam evaporation. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 275, 266-272	1-3	169

105	Development of Biaxially Textured Buffer Layers on Rolled-Ni Substrates for High Current YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-y</sub> Coated Conductors <b>1997</b> , 669-672		1
104	Fabrication of High Critical Current Density Superconducting Tapes by Epitaxial Deposition of YBCO Thick Films on Biaxially Textured Metal Substrates <b>1997</b> , 685-688		
103	High critical current density superconducting tapes by epitaxial deposition of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> thick films on biaxially textured metals. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 1795-1797	3-4	885
102	Addendum: Ion beam synthesis and stability of GaAs nanocrystals in silicon [Appl. Phys. Lett. 68, 2389 (1996)]. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 2297-2297	3-4	2
101	Ion-beam synthesis and stability of GaAs nanocrystals in silicon. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 2389-2391	3-4	29
100	GaAs nanocrystals formed by sequential ion implantation. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 1876-1880	3-4	57
99	Artificially-layered and metastable thin-film materials development utilizing pulsed-laser deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1996</b> , 41, 374-378	3-1	1
98	The growth and properties of epitaxial KNbO <sub>3</sub> thin films and KNbO <sub>3</sub> /KTaO <sub>3</sub> superlattices. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 1488-1490	3-4	84
97	Epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> on Biaxially Textured Nickel (001): An Approach to Superconducting Tapes with High Critical Current Density. <i>Science</i> , <b>1996</b> , 274, 755-757	33-3	639
96	Formation and properties of novel artificially layered cuprate superconductors using pulsed-laser deposition <b>1996</b> ,		2
95	Optical and Structural Characterization of Zinc Implanted Silica Under Various Thermal Treatments. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 438, 441		3
94	Synthesis, Optical Properties, and Microstructure of Semiconductor Nanocrystals Formed by Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 452, 89		20
93	Biaxially oriented metallic tape substrates for high-temperature superconductors. <i>European Physical Journal D</i> , <b>1996</b> , 46, 1531-1532		3
92	Formation of artificially-layered high-temperature superconductors using pulsed-laser deposition. <i>Applied Surface Science</i> , <b>1996</b> , 96-98, 672-678	6-7	8
91	Epitaxial superconductors on rolling-assisted biaxially-textured substrates (RABiTS): a route towards high critical current density wire. <i>Applied Superconductivity</i> , <b>1996</b> , 4, 403-427		120
90	Hydrostatic pressure dependence of the photoluminescence of Si nanocrystals in SiO <sub>2</sub> . <i>Applied Physics Letters</i> , <b>1996</b> , 68, 87-89	3-4	26
89	Heteroepitaxial structures of SrTiO <sub>3</sub> /TiN on Si(100) by in situ pulsed laser deposition. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 6720-6724	2-5	36
88	TEM study of CdS nanocrystals formed in SiO <sub>2</sub> by ion implantation. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , <b>1996</b> , 54, 236-237		

- 87 Microstructure of GaAs nanocrystals formed inside single crystalline silicon. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1996**, 54, 968-969
- 86 Formation and properties of artificially-layered SrCuO<sub>2</sub>/BaCuO<sub>2</sub> superconducting superlattices. *Journal of Superconductivity and Novel Magnetism*, **1995**, 8, 519-522 2
- 85 Ordered structures in Si<sub>x</sub>Ge<sub>1-x</sub> alloy thin films. *Physical Review B*, **1995**, 51, 10947-10955 3.3 25
- 84 Growth of highly doped p-type ZnTe films by pulsed laser ablation in molecular nitrogen. *Applied Physics Letters*, **1995**, 67, 2545-2547 3.4 35
- 83 Superconductivity in epitaxial films of the oxycarbonate Sr<sub>2</sub>CuO<sub>2</sub>(CO<sub>3</sub>) converted from infinite layer SrCuO<sub>2</sub> by thermal processing. *Applied Physics Letters*, **1995**, 67, 1310-1312 3.4 11
- 82 Superconductivity in Sr<sub>n+1</sub>Cu<sub>n</sub>O<sub>2n+1</sub> infinite layer films induced by postgrowth annealing. *Applied Physics Letters*, **1995**, 66, 2283-2285 3.4 9
- 81 Strong, asymmetric flux pinning by miscut-growth-initiated columnar defects in epitaxial YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> films. *Physical Review Letters*, **1995**, 74, 2355-2358 7.4 59
- 80 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> films on off-axis Y-ZrO<sub>2</sub> substrates using Y-ZrO<sub>2</sub> or Y<sub>2</sub>O<sub>3</sub> barrier layers. *Journal of Materials Research*, **1995**, 10, 810-816 2.5 7
- 79 Growth of Ge, Si, and SiGe nanocrystals in SiO<sub>2</sub> matrices. *Journal of Applied Physics*, **1995**, 78, 4386-4389 2.5 164
- 78 Optical functions of ion-implanted, laser-annealed heavily doped silicon. *Physical Review B*, **1995**, 52, 14607-14614 3.3 36
- 77 The Formation Al<sub>2</sub>O<sub>3</sub>/V<sub>2</sub>O<sub>3</sub> Multilayer Structures by High-Dose Ion Implantation. *Materials Research Society Symposia Proceedings*, **1995**, 382, 107
- 76 Formation of artificially-Layered Thin-Film Compounds Using Pulsed-Laser Deposition. *Materials Research Society Symposia Proceedings*, **1995**, 388, 57 0
- 75 Growth of Highly Doped P-Type ZnTe Films by Pulsed Laser ablation in Molecular Nitrogen. *Materials Research Society Symposia Proceedings*, **1995**, 388, 85
- 74 New Insight into Damage-Related Phenomena in Si Implanted Under Extreme Conditions. *Materials Research Society Symposia Proceedings*, **1995**, 396, 15 1
- 73 Optical Switching of Coherent VO<sub>2</sub> Precipitates Embedded in Sapphire. *Materials Research Society Symposia Proceedings*, **1995**, 396, 215 1
- 72 Nanocrystals and Quantum Dots Formed by High-Dose Ion Implantation. *Materials Research Society Symposia Proceedings*, **1995**, 396, 377 17
- 71 Synthesis and Properties of GaAs Nanocrystals in SiO<sub>2</sub> Formed by Ion Implantation. *Materials Research Society Symposia Proceedings*, **1995**, 396, 447 1
- 70 Pulsed Laser Ablation Growth and Doping of Epitaxial Compound Semiconductor Films. *Materials Research Society Symposia Proceedings*, **1995**, 397, 107 3

69	Epitaxial Growth of Metal Fluoride Thin Films by Pulsed-Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 397, 259		
68	Stark Effects on Band Gap and Surface Phonons of Semiconductor Quantum Dots in Dielectric Hosts. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 405, 127		
67	Domain formation and strain relaxation in epitaxial ferroelectric heterostructures. <i>Physical Review B</i> , <b>1994</b> , 49, 14865-14879	3-3	214
66	Transport and structural properties of Pr <sub>1-x</sub> Ca <sub>x</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films grown by pulsed-laser deposition. <i>Physical Review B</i> , <b>1994</b> , 49, 4182-4188	3-3	39
65	In-plane aligned CeO <sub>2</sub> films grown on amorphous SiO <sub>2</sub> substrates by ion-beam assisted pulsed laser deposition. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 2012-2014	3-4	41
64	SrCuO <sub>2</sub> /(Sr,Ca)CuO <sub>2</sub> superlattice growth by pulsed-laser deposition. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 2869-2871	3-4	23
63	Electron-doped and hole-doped infinite layer Sr <sub>1-x</sub> CuO <sub>2</sub> films grown by laser molecular beam epitaxy. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 224, 300-316	1-3	20
62	Superconductivity in SrCuO <sub>2</sub> -BaCuO <sub>2</sub> Superlattices: Formation of Artificially Layered Superconducting Materials. <i>Science</i> , <b>1994</b> , 265, 2074-7	33-3	94
61	Morphology and Microstructure of (111) Crystalline CeO <sub>2</sub> Films Grown on Amorphous SiO <sub>2</sub> Substrates by Pulsed-Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , <b>1994</b> , 354, 603		2
60	Compound Semiconductor Nanocrystals formed by Sequential Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1994</b> , 358, 169		11
59	Semiconductor Nanocrystals formed in SiO <sub>2</sub> by Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1994</b> , 358, 175		21
58	Epitaxial lead zirconate-titanate thin films on sapphire. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 467-469	3-4	34
57	In-plane epitaxial alignment of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> films grown on silver crystals and buffer layers. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 1836-1838	3-4	79
56	Interplay between evolving surface morphology, atomic-scale growth modes, and ordering during SixGe <sub>1-x</sub> epitaxy. <i>Physical Review Letters</i> , <b>1993</b> , 70, 2293-2296	7-4	49
55	Correlations between the Hall coefficient and the superconducting transport properties of oxygen-deficient YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> epitaxial thin films. <i>Physical Review B</i> , <b>1993</b> , 47, 8986-8995	3-3	87
54	Strain relief mechanism for damage growth during high-dose, O <sup>+</sup> implantation of Si. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 3580-3582	3-4	26
53	Jesson et al. reply. <i>Physical Review Letters</i> , <b>1993</b> , 71, 3737	7-4	4
52	Epitaxial growth of single-crystal Ca <sub>1-x</sub> Sr <sub>x</sub> CuO <sub>2</sub> thin films by pulsed-laser deposition. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 1679-1681	3-4	53

51	Epitaxial growth of Ba <sub>1-x</sub> K <sub>x</sub> BiO <sub>3</sub> thin films by pulsed-laser deposition. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 414-416	3.4	12
50	In situ growth of epitaxial Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8-x</sub> and Bi <sub>2</sub> Sr <sub>2</sub> CuO <sub>6-x</sub> films by pulsed laser ablation. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 409-411	3.4	30
49	Epitaxial ZnS films grown on GaAs (001) and (111) by pulsed-laser ablation. <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 7818-7822	2.5	28
48	Oriented Si and Ge Nanocrystals Formed in Al <sub>2</sub> O <sub>3</sub> by Ion Implantation and Annealing. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 316, 487		15
47	Study of epitaxial platinum thin films grown by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 3735-3740	2.5	22
46	Early stages of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> epitaxial growth on MgO and SrTiO <sub>3</sub> . <i>Physical Review B</i> , <b>1992</b> , 45, 7584-7587	3.3	97
45	Role of oxygen vacancies in the flux-pinning mechanism, and hole-doping lattice disorder in high-current-density YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films. <i>Physical Review B</i> , <b>1992</b> , 45, 7555-7558	3.3	56
44	Growth of Epitaxial ZnS Films by Pulsed-Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 242, 243		2
43	Anisotropic Electrical Resistivity of YBCO/PBCO Superlattice Films Grown on Miscut Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 275, 353		
42	Textured Coatings from Colloidal Suspensions of Faceted Oxide Microcrystals. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 286, 33		
41	Tc-Relations in YB <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> Thin Films: Effects of Oxygen Pressure During Growth. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 275, 101		1
40	Epitaxial ZnS, ZnSe and ZnS-ZnSe Superlattices Grown on (001)GaAs By Pulsed-Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 285, 471		3
39	Strain relaxation by domain formation in epitaxial ferroelectric thin films. <i>Physical Review Letters</i> , <b>1992</b> , 68, 3733-3736	7.4	144
38	Suppression of the spiral-growth mechanism in epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films grown on miscut substrates. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 852-854	3.4	59
37	High quality epitaxial YBCO(F) films directly deposited on sapphire. <i>Physica C: Superconductivity and Its Applications</i> , <b>1992</b> , 200, 437-441	1.3	3
36	Oxide ferroelectric materials grown by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , <b>1992</b> , 124, 684-689	1.6	29
35	Epitaxial YBCO(F) films directly deposited on sapphire and its microwave properties. <i>Cryogenics</i> , <b>1992</b> , 32, 587-591	1.8	
34	Growth and transport properties of Y-Ba-Cu-O/Pr-Ba-Cu-O superlattices <b>1991</b> ,		2



33	Depression and broadening of the superconducting transition in superlattices based on YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> : Influence of the barrier layers. <i>Physical Review Letters</i> , <b>1991</b> , 67, 1358-1361	7.4	60
32	Preferred alignment of twin boundaries in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> thin films and YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> /PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> superlattices on SrTiO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>1991</b> , 58, 2174-2176	3.4	39
31	Flux creep in the Josephson mixed state of granular-oriented YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> thin thin films. <i>Applied Physics Letters</i> , <b>1991</b> , 59, 3183-3185	3.4	15
30	Superconductivity and hole doping in Pr <sub>0.5</sub> Ca <sub>0.5</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> thin films. <i>Physical Review Letters</i> , <b>1991</b> , 66, 1537-1540	7.4	145
29	Effect of oxygen pressure on the synthesis of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> thin films by post-deposition annealing. <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 6569-6585	2.5	248
28	Superconducting transport properties and surface microstructure for YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> -based superlattices grown by pulsed laser deposition. <i>Lecture Notes in Physics</i> , <b>1991</b> , 311-319	0.8	
27	uperconductivity in Nonsymmetric Epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> -PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> Superlattices Grown by Pulsed Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 191, 153		1
26	Large, orientation-dependent enhancements of critical currents in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> epitaxial thin films: Evidence for intrinsic flux pinning?. <i>Physica B: Condensed Matter</i> , <b>1990</b> , 165-166, 1415-1416	2.8	24
25	MeV, self-ion implantation in Si at liquid nitrogen temperature; a study of damage morphology and its anomalous annealing behavior. <i>Journal of Applied Physics</i> , <b>1990</b> , 68, 2081-2086	2.5	33
24	Weak coupling and anisotropy in the magnetic penetration depth of the high-temperature superconductor Tl <sub>2</sub> Ca <sub>2</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>10+δ</sub> . <i>Physical Review B</i> , <b>1990</b> , 41, 7293-7296	3.3	32
23	Superconductivity in nonsymmetric epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> /PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> superlattices: The superconducting behavior of Cu-O bilayers. <i>Physical Review Letters</i> , <b>1990</b> , 65, 1160-1163	7.4	269
22	Uniaxial lattice expansion of self-ion-implanted Si. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 243-245	3.4	14
21	High critical current densities in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> films on polycrystalline zirconia. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 1164-1166	3.4	47
20	Y-Ba-Cu-O thin films grown on rigid and flexible polycrystalline yttria-stabilized zirconia by pulsed laser ablation. <i>Journal of Applied Physics</i> , <b>1990</b> , 68, 223-227	2.5	23
19	Epitaxial superconducting thin films of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> on KTaO <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , <b>1989</b> , 54, 1063-1065	3.4	47
18	X-ray study of in-plane epitaxy of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> thin films. <i>Physical Review B</i> , <b>1989</b> , 39, 12355-12358	3.3	61
17	. <i>IEEE Transactions on Magnetics</i> , <b>1989</b> , 25, 2324-2327	2	6
16	Transport critical currents in epitaxial Y <sub>1</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> thin films. <i>Physica C: Superconductivity and Its Applications</i> , <b>1989</b> , 162-164, 653-654	1.3	19



15	Comparison between LaGaO <sub>3</sub> , LaAlO <sub>3</sub> , KTaO <sub>3</sub> , and SrTiO <sub>3</sub> substrates for the epitaxial growth of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films by a BaF <sub>2</sub> process. <i>Physica C: Superconductivity and Its Applications</i> , <b>1989</b> , 162-164, 655-656	1.3	13
14	Variation of Superlattice Structure of the Bi <sub>2</sub> Sr <sub>2-x</sub> CuO <sub>6-y</sub> Superconductor with Composition and Thermal History. <i>Materials Research Society Symposia Proceedings</i> , <b>1989</b> , 156, 329		6
13	In Situ Growth of High Quality Epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> Thin Films at Moderate Temperatures by Pulsed Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , <b>1989</b> , 169, 431		10
12	Electrical Transport Dissipation Effects in Epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> Thin Films. <i>Materials Research Society Symposia Proceedings</i> , <b>1989</b> , 169, 883		7
11	Multiple scattering and the 200 reflection in silicon and germanium. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>1988</b> , 44, 22-25		23
10	Pulsed laser deposition of thin superconducting films of HoBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> and YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> . <i>Journal of Materials Research</i> , <b>1988</b> , 3, 1169-1179	2.5	23
9	X-ray diffraction study of phason strain field in oriented icosahedral Al-Mn. <i>Physical Review Letters</i> , <b>1987</b> , 58, 2304-2307	7.4	35
8	Surface characterization of amorphous and crystallized Fe <sub>80</sub> B <sub>20</sub> . <i>Applied Surface Science</i> , <b>1986</b> , 27, 180-198		17
7	Existence and nature of a smectic-A-hexatic-B-smectic-I point. <i>Physical Review A</i> , <b>1986</b> , 34, 2422-2426	2.6	8
6	Formation of icosahedral Al-Mn by ion implantation into oriented crystalline films. <i>Physical Review B</i> , <b>1986</b> , 33, 2876-2878	3.3	59
5	Precipitation of Icosahedral Al-Mn during pulsed laser melting. <i>Journal of Materials Research</i> , <b>1986</b> , 1, 401-404	2.5	5
4	The projected atomic structure of a large angle [001] ± 5 (± 36.9°) twist boundary in gold: Diffraction analysis and theoretical predictions. <i>Acta Metallurgica</i> , <b>1983</b> , 31, 699-712		70
3	Comparison of the structures of the large angle ± 13 [001] twist grain boundary in gold and silver. <i>Scripta Metallurgica</i> , <b>1982</b> , 16, 393-398		12
2	The measurement of grain boundary thickness using X-ray diffraction techniques. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1979</b> , 40, 757-767		40
1	The 3D X-Ray Crystal Microscope: An Unprecedented Tool for ICME		183-188