

# John Budai

## List of Publications by Citations

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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	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
265	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
264	Three-dimensional X-ray structural microscopy with submicrometre resolution. <i>Nature</i> , <b>2002</b> , 415, 887-900	30.4	597
263	Advances in wide bandgap materials for semiconductor spintronics. <i>Materials Science and Engineering Reports</i> , <b>2003</b> , 40, 137-168	30.9	375
262	New yellow Ba <sub>0.93</sub> Eu <sub>0.07</sub> Al <sub>2</sub> O <sub>4</sub> 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
261	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
260	Effect of oxygen pressure on the synthesis of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films by post-deposition annealing. <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 6569-6585	2.5	248
259	Ferromagnetism in cobalt-implanted ZnO. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 5488-5490	3.4	241
258	The race to x-ray microbeam and nanobeam science. <i>Science</i> , <b>2011</b> , 334, 1234-9	33.3	231
257	Spectroscopic ellipsometry of thin film and bulk anatase (TiO <sub>2</sub> ). <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 9537-9541	2.5	223
256	Domain formation and strain relaxation in epitaxial ferroelectric heterostructures. <i>Physical Review B</i> , <b>1994</b> , 49, 14865-14879	3.3	214
255	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
254	Metallization of vanadium dioxide driven by large phonon entropy. <i>Nature</i> , <b>2014</b> , 515, 535-9	50.4	192
253	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
252	Growth of Ge, Si, and SiGe nanocrystals in SiO <sub>2</sub> matrices. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 4386-4389	2.5	164
251	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
250	Structure and magnetism of cobalt-doped ZnO thin films. <i>New Journal of Physics</i> , <b>2008</b> , 10, 065002	2.9	150

249	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
248	Strain relaxation by domain formation in epitaxial ferroelectric thin films. <i>Physical Review Letters</i> , <b>1992</b> , 68, 3733-3736	7.4	144
247	Elastically driven anisotropic percolation in electronic phase-separated manganites. <i>Nature Physics</i> , <b>2009</b> , 5, 885-888	16.2	143
246	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
245	Doping-based stabilization of the M2 phase in free-standing VO <sub>2</sub> nanostructures at room temperature. <i>Nano Letters</i> , <b>2012</b> , 12, 6198-205	11.5	120
244	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
243	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
242	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
241	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
240	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
239	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
238	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
237	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
236	Correlations between the Hall coefficient and the superconducting transport properties of oxygen-deficient YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> epitaxial thin films. <i>Physical Review B</i> , <b>1993</b> , 47, 8986-8995	3.3	87
235	Ferromagnetism in Co- and Mn-doped ZnO. <i>Solid-State Electronics</i> , <b>2003</b> , 47, 2231-2235	1.7	86
234	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
233	Phonon localization drives polar nanoregions in a relaxor ferroelectric. <i>Nature Communications</i> , <b>2014</b> , 5, 3683	17.4	80
232	In-plane epitaxial alignment of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> films grown on silver crystals and buffer layers. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 1836-1838	3.4	79

231	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
230	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
229	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
228	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
227	Long-Range Antiferromagnetic Order in a Rocksalt High Entropy Oxide. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3705-3711	9.6	66
226	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
225	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
224	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
223	Giant electromechanical coupling of relaxor ferroelectrics controlled by polar nanoregion vibrations. <i>Science Advances</i> , <b>2016</b> , 2, e1501814	14.3	61
222	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
221	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
220	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
219	Spatial distribution and electronic state of Co in epitaxial anatase Co <sub>x</sub> Ti <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
218	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. <i>Physical Review Letters</i> , <b>1995</b> , 74, 2355-2358	7.4	59
217	Suppression of the spiral-growth mechanism in epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> films grown on miscut substrates. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 852-854	3.4	59
216	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
215	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
214	GaAs nanocrystals formed by sequential ion implantation. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 1876-1880.5		57

213	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
212	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
211	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
210	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
209	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
208	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
207	Electromechanical actuation and current-induced metastable states in suspended single-crystalline VO <sub>2</sub> nanoribbons. <i>Nano Letters</i> , <b>2011</b> , 11, 3065-73	11.5	47
206	Epitaxial superconducting thin films of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> on KTaO <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , <b>1989</b> , 54, 1063-1065	3.4	47
205	High critical current densities in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films on polycrystalline zirconia. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 1164-1166	3.4	47
204	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
203	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
202	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
201	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
200	Compositional disorder, polar nanoregions and dipole dynamics in Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -based relaxor ferroelectrics. <i>Zeitschrift für Kristallographie</i> , <b>2011</b> , 226, 99-107		42
199	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
198	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
197	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
196	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

195	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
194	Correlation between structure and semiconductor-to-metal transition characteristics of VO <sub>2</sub> /TiO <sub>2</sub> /sapphire thin film heterostructures. <i>Acta Materialia</i> , <b>2013</b> , 61, 7805-7815	8.4	39
193	Spectroscopic dielectric tensor of monoclinic crystals: CdWO <sub>4</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	39
192	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
191	Transport and structural properties of Pr <sub>1-x</sub> CaxBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> thin films grown by pulsed-laser deposition. <i>Physical Review B</i> , <b>1994</b> , 49, 4182-4188	3.3	39
190	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
189	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
188	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
187	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
186	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
185	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
184	Optical functions of ion-implanted, laser-annealed heavily doped silicon. <i>Physical Review B</i> , <b>1995</b> , 52, 14607-14614	3.3	36
183	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
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	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
180	Growth of highly doped p-type ZnTe films by pulsed laser ablation in molecular nitrogen. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 2545-2547	3.4	35
179	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
178	Intrinsic anharmonic localization in thermoelectric PbSe. <i>Nature Communications</i> , <b>2019</b> , 10, 1928	17.4	34

177	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
176	KirkpatrickBaez 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
175	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
174	Epitaxial lead zirconate-titanate thin films on sapphire. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 467-469	3.4	34
173	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
172	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
171	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
170	Zinc Oxide Microtowers by Vapor Phase Homoepitaxial Regrowth. <i>Advanced Materials</i> , <b>2009</b> , 21, 890-896	4	32
169	Ferromagnetism in pseudocubic BaFeO <sub>3</sub> epitaxial films. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 012514	3.4	32
168	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+delta</sub> . <i>Physical Review B</i> , <b>1990</b> , 41, 7293-7296	3.3	32
167	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
166	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
165	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
164	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
163	In situ growth of epitaxial Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> and Bi <sub>2</sub> Sr <sub>2</sub> CuO <sub>6</sub> films by pulsed laser ablation. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 409-411	3.4	30
162	Magneto-optical effects from nanophase 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
161	Ion-beam synthesis and stability of GaAs nanocrystals in silicon. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 2389-2391	3.4	29
160	Oxide ferroelectric materials grown by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , <b>1992</b> , 124, 684-689	1.6	29



- 159 Ion beam synthesis of magnetic CoBt alloys in Al<sub>2</sub>O<sub>3</sub>. *Journal of Magnetism and Magnetic Materials*, **2003**, 260, 319-329 2.8 28
- 158 Plume-induced stress in pulsed-laser deposited CeO<sub>2</sub> films. *Applied Physics Letters*, **1999**, 74, 2134-2136 3.4 28
- 157 Epitaxial ZnS films grown on GaAs (001) and (111) by pulsed-laser ablation. *Journal of Applied Physics*, **1993**, 73, 7818-7822 2.5 28
- 156 Semiconducting epitaxial films of metastable SrRu<sub>0.5</sub>Sn<sub>0.5</sub>O<sub>3</sub> grown by pulsed laser deposition. *Applied Physics Letters*, **1997**, 70, 2147-2149 3.4 27
- 155 Long length fabrication of YBCO on rolling assisted biaxially textured substrates (RABiTS) using pulsed laser deposition. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 2276-2279 1.8 27
- 154 In situ X-ray microdiffraction studies inside individual VO<sub>2</sub> microcrystals. *Acta Materialia*, **2013**, 61, 2751-2762 2.6 26
- 153 Epitaxial growth of anatase by reactive sputter deposition using water vapor as the oxidant. *Thin Solid Films*, **2004**, 446, 18-22 2.2 26
- 152 Hydrostatic pressure dependence of the photoluminescence of Si nanocrystals in SiO<sub>2</sub>. *Applied Physics Letters*, **1996**, 68, 87-89 3.4 26
- 151 Strain relief mechanism for damage growth during high-dose, O<sup>+</sup> implantation of Si. *Applied Physics Letters*, **1993**, 63, 3580-3582 3.4 26
- 150 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. *IEEE Transactions on Applied Superconductivity*, **2003**, 13, 2481-2483 1.8 25
- 149 Ordered structures in SixGe<sub>1-x</sub> alloy thin films. *Physical Review B*, **1995**, 51, 10947-10955 3.3 25
- 148 Strain and Texture in Al-Interconnect Wires Weasured by X-Ray Microbeam Diffraction. *Materials Research Society Symposia Proceedings*, **1999**, 563, 175 24
- 147 Large, orientation-dependent enhancements of critical currents in Y<sub>1</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> epitaxial thin films: Evidence for intrinsic flux pinning?. *Physica B: Condensed Matter*, **1990**, 165-166, 1415-1416 2.8 24
- 146 Ferroelectric Self-Poling, Switching, and Monoclinic Domain Configuration in BiFeO<sub>3</sub> Thin Films. *Advanced Functional Materials*, **2016**, 26, 5166-5173 15.6 24
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