

# John Budai

## List of Publications by Year in descending order

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272  
papers

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275  
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275  
docs citations

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times ranked

10163  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 1996, 69, 1795-1797.	3.3	944
2	Three-dimensional X-ray structural microscopy with submicrometre resolution. <i>Nature</i> , 2002, 415, 887-890.	27.8	685
3	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> , 1996, 274, 755-757.	12.6	678
4	Advances in wide bandgap materials for semiconductor spintronics. <i>Materials Science and Engineering Reports</i> , 2003, 40, 137-168.	31.8	409
5	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> , 2013, 2, e50-e50.	16.6	355
6	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> , 1990, 65, 1160-1163.	7.8	289
7	The Race to X-ray Microbeam and Nanobeam Science. <i>Science</i> , 2011, 334, 1234-1239.	12.6	265
8	Effect of oxygen pressure on the synthesis of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films by post-deposition annealing. <i>Journal of Applied Physics</i> , 1991, 69, 6569-6585.	2.5	263
9	Metallization of vanadium dioxide driven by large phonon entropy. <i>Nature</i> , 2014, 515, 535-539.	27.8	252
10	Ferromagnetism in cobalt-implanted ZnO. <i>Applied Physics Letters</i> , 2003, 83, 5488-5490.	3.3	251
11	Spectroscopic ellipsometry of thin film and bulk anatase (TiO <sub>2</sub> ). <i>Journal of Applied Physics</i> , 2003, 93, 9537-9541.	2.5	247
12	Domain formation and strain relaxation in epitaxial ferroelectric heterostructures. <i>Physical Review B</i> , 1994, 49, 14865-14879.	3.2	227
13	Optical and structural properties of ZnO films deposited on GaAs by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2000, 88, 201-204.	2.5	227
14	Growth of Ge, Si, and SiGe nanocrystals in SiO <sub>2</sub> matrices. <i>Journal of Applied Physics</i> , 1995, 78, 4386-4389.	2.5	183
15	Growth of biaxially textured buffer layers on rolled-Ni substrates by electron beam evaporation. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 275, 266-272.	1.2	176
16	Structure and magnetism of cobalt-doped ZnO thin films. <i>New Journal of Physics</i> , 2008, 10, 065002.	2.9	164
17	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-x</sub> thin films. <i>Physical Review Letters</i> , 1991, 66, 1537-1540.	7.8	162
18	Conductors with controlled grain boundaries: An approach to the next generation, high temperature superconducting wire. <i>Journal of Materials Research</i> , 1997, 12, 2924-2940.	2.6	161

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19	Strain relaxation by domain formation in epitaxial ferroelectric thin films. <i>Physical Review Letters</i> , 1992, 68, 3733-3736.	7.8	157
20	Elastically driven anisotropic percolation in electronic phase-separated manganites. <i>Nature Physics</i> , 2009, 5, 885-888.	16.7	157
21	Symmetry Relationship and Strain-Induced Transitions between Insulating M1 and M2 and Metallic R phases of Vanadium Dioxide. <i>Nano Letters</i> , 2010, 10, 4409-4416.	9.1	149
22	Doping-Based Stabilization of the M2 Phase in Free-Standing VO <sub>2</sub> Nanostructures at Room Temperature. <i>Nano Letters</i> , 2012, 12, 6198-6205.	9.1	145
23	Epitaxial superconductors on rolling-assisted biaxially-textured substrates (RABiTS): a route towards high critical current density wire. <i>Applied Superconductivity</i> , 1996, 4, 403-427.	0.5	129
24	Effects of hydrogen in the annealing environment on photoluminescence from Si nanoparticles in SiO <sub>2</sub> . <i>Journal of Applied Physics</i> , 1999, 86, 396-401.	2.5	123
25	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> , 1997, 275, 155-161.	1.2	117
26	X-ray microdiffraction study of growth modes and crystallographic tilts in oxide films on metal substrates. <i>Nature Materials</i> , 2003, 2, 487-492.	27.5	114
27	Long-Range Antiferromagnetic Order in a Rocksalt High Entropy Oxide. <i>Chemistry of Materials</i> , 2019, 31, 3705-3711.	6.7	112
28	Superconductivity in SrCuO <sub>2</sub> -BaCuO <sub>2</sub> Superlattices: Formation of Artificially Layered Superconducting Materials. <i>Science</i> , 1994, 265, 2074-2077.	12.6	107
29	Controlling the size, structure and orientation of semiconductor nanocrystals using metastable phase recrystallization. <i>Nature</i> , 1997, 390, 384-386.	27.8	104
30	Early stages of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> epitaxial growth on MgO and SrTiO <sub>3</sub> . <i>Physical Review B</i> , 1992, 45, 7584-7587.	3.2	102
31	Interplay between Ferroelastic and Metal-Insulator Phase Transitions in Strained Quasi-Two-Dimensional VO <sub>2</sub> Nanoplatelets. <i>Nano Letters</i> , 2010, 10, 2003-2011.	9.1	101
32	Phonon localization drives polar nanoregions in a relaxor ferroelectric. <i>Nature Communications</i> , 2014, 5, 3683.	12.8	98
33	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> , 1996, 68, 1488-1490.	3.3	95
34	Correlations between the Hall coefficient and the superconducting transport properties of oxygen-deficient YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> epitaxial thin films. <i>Physical Review B</i> , 1993, 47, 8986-8995.	3.2	92
35	Ferromagnetism in Co- and Mn-doped ZnO. <i>Solid-State Electronics</i> , 2003, 47, 2231-2235.	1.4	92
36	Giant electromechanical coupling of relaxor ferroelectrics controlled by polar nanoregion vibrations. <i>Science Advances</i> , 2016, 2, e1501814.	10.3	91

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37	In-plane epitaxial alignment of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films grown on silver crystals and buffer layers. Applied Physics Letters, 1993, 62, 1836-1838.	3.3	86
38	Strain Doping: Reversible Single-Axis Control of a Complex Oxide Lattice via Helium Implantation. Physical Review Letters, 2015, 114, 256801.	7.8	84
39	Enhanced photoluminescence in epitaxial $\text{ZnGa}_2\text{O}_4:\text{Mn}$ thin-film phosphors using pulsed-laser deposition. Applied Physics Letters, 1999, 74, 3155-3157.	3.3	81
40	Polychromatic X-ray microdiffraction studies of mesoscale structure and dynamics. Journal of Synchrotron Radiation, 2005, 12, 155-162.	2.4	77
41	Direct evidence of mesoscopic dynamic heterogeneities at the surfaces of ergodic ferroelectric relaxors. Physical Review B, 2010, 81, .	3.2	77
42	The projected atomic structure of a large angle $[001]\hat{\epsilon} = 5$ ( $\hat{\epsilon} = 36.9^\circ$ ) twist boundary in gold: Diffraction analysis and theoretical predictions. Acta Metallurgica, 1983, 31, 699-712.	2.1	74
43	Conductivity in transparent anatase $\text{TiO}_2$ films epitaxially grown by reactive sputtering deposition. Solid-State Electronics, 2003, 47, 2275-2278.	1.4	73
44	Properties of Mn-doped $\text{Cu}_2\text{O}$ semiconducting thin films grown by pulsed-laser deposition. Solid-State Electronics, 2003, 47, 2215-2220.	1.4	70
45	Magnetic properties of Co- and Mn-implanted $\text{BaTiO}_3$ , $\text{SrTiO}_3$ and $\text{KTaO}_3$ . Solid-State Electronics, 2003, 47, 2225-2230.	1.4	69
46	Formation of icosahedral Al-Mn by ion implantation into oriented crystalline films. Physical Review B, 1986, 33, 2876-2878.	3.2	63
47	Depression and broadening of the superconducting transition in superlattices based on $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ : Influence of the barrier layers. Physical Review Letters, 1991, 67, 1358-1361.	7.8	63
48	GaAs nanocrystals formed by sequential ion implantation. Journal of Applied Physics, 1996, 79, 1876-1880.	2.5	63
49	Spatial distribution and electronic state of Co in epitaxial anatase $\text{Co}_x\text{Ti}_{1-x}\text{O}_2$ thin films grown by reactive sputtering. Applied Physics Letters, 2004, 84, 2608-2610.	3.3	62
50	X-ray study of in-plane epitaxy of $\text{YBa}_2\text{Cu}_3\text{O}_x$ thin films. Physical Review B, 1989, 39, 12355-12358.	3.2	61
51	Suppression of the spiral-growth mechanism in epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films grown on miscut substrates. Applied Physics Letters, 1992, 61, 852-854.	3.3	61
52	Epitaxial growth of single-crystal $\text{Ca}_{1-x}\text{Sr}_x\text{CuO}_2$ thin films by pulsed-laser deposition. Applied Physics Letters, 1993, 62, 1679-1681.	3.3	61
53	Role of oxygen vacancies in the flux-pinning mechanism, and hole-doping lattice disorder in high-current-density $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films. Physical Review B, 1992, 45, 7555-7558.	3.2	60
54	Nonpolar ZnO film growth and mechanism for anisotropic in-plane strain relaxation. Acta Materialia, 2010, 58, 1097-1103.	7.9	60

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55	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> , 1995, 74, 2355-2358.	7.8	59
56	Differential-aperture X-ray structural microscopy: a submicron-resolution three-dimensional probe of local microstructure and strain. <i>Micron</i> , 2004, 35, 431-439.	2.2	58
57	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> , 1989, 54, 1063-1065.	3.3	57
58	Interplay between evolving surface morphology, atomic-scale growth modes, and ordering during Si <sub>2</sub> Ge <sub>1-x</sub> epitaxy. <i>Physical Review Letters</i> , 1993, 70, 2293-2296.	7.8	55
59	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> , 2000, 77, 2289-2291.	3.3	54
60	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> , 1998, 73, 1904-1906.	3.3	53
61	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> , 2004, 35, 1963-1967.	2.2	53
62	Electromechanical Actuation and Current-Induced Metastable States in Suspended Single-Crystalline VO <sub>2</sub> Nanoplatelets. <i>Nano Letters</i> , 2011, 11, 3065-3073.	9.1	53
63	Intrinsic anharmonic localization in thermoelectric PbSe. <i>Nature Communications</i> , 2019, 10, 1928.	12.8	51
64	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> , 1990, 57, 1164-1166.	3.3	49
65	High quality optoelectronic grade epitaxial AlN films on $\hat{\Gamma}$ -Al <sub>2</sub> O <sub>3</sub> , Si and 6H-SiC by pulsed laser deposition. <i>Thin Solid Films</i> , 1997, 299, 94-103.	1.8	48
66	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> , 2013, 61, 7805-7815.	7.9	48
67	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> , 1998, 11, 481-487.	0.5	47
68	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> , 2003, 93, 5656-5669.	2.5	47
69	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> , 2011, 226, 99-107.	1.1	46
70	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> , 1994, 65, 2012-2014.	3.3	45
71	Hydrogen-assisted pulsed-laser deposition of (001)CeO <sub>2</sub> on (001) Ge. <i>Applied Physics Letters</i> , 2000, 76, 1677-1679.	3.3	45
72	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> , 2004, 151, H188.	2.9	45

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73	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. Applied Surface Science, 2006, 252, 7442-7448.	6.1	45
74	Optical functions of ion-implanted, laser-annealed heavily doped silicon. Physical Review B, 1995, 52, 14607-14614.	3.2	44
75	Spatially resolved Poisson strain and anticlasic curvature measurements in Si under large deflection bending. Applied Physics Letters, 2003, 82, 3856-3858.	3.3	44
76	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. Physical Review B, 1994, 49, 4182-4188.	3.2	43
77	Spectroscopic dielectric tensor of monoclinic crystals: CdWO <sub>4</sub> . Physical Review B, 2011, 84, .	3.2	43
78	The measurement of grain boundary thickness using X-ray diffraction techniques. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1979, 40, 757-767.	0.6	42
79	Epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films on rolled-textured metals for high-temperature superconducting applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 86-94.	3.5	42
80	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> . Applied Physics Letters, 1991, 58, 2174-2176.	3.3	41
81	Deformation microstructure under microindents in single-crystal Cu using three-dimensional x-ray structural microscopy. Journal of Materials Research, 2004, 19, 66-72.	2.6	41
82	Kirkpatrick-Baez microfocusing optics for thermal neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 539, 312-320.	1.6	40
83	Growth of highly doped p-type ZnTe films by pulsed laser ablation in molecular nitrogen. Applied Physics Letters, 1995, 67, 2545-2547.	3.3	38
84	Epitaxial stabilization of single crystal anatase films via reactive sputter deposition. Thin Solid Films, 2002, 422, 166-169.	1.8	38
85	MeV, self-ion implantation in Si at liquid nitrogen temperature; a study of damage morphology and its anomalous annealing behavior. Journal of Applied Physics, 1990, 68, 2081-2086.	2.5	37
86	Epitaxial lead zirconate-titanate thin films on sapphire. Applied Physics Letters, 1993, 63, 467-469.	3.3	37
87	Ion-beam synthesis and stability of GaAs nanocrystals in silicon. Applied Physics Letters, 1996, 68, 2389-2391.	3.3	37
88	Heteroepitaxial structures of SrTiO <sub>3</sub> /TiN on Si(100) by in situ pulsed laser deposition. Journal of Applied Physics, 1996, 80, 6720-6724.	2.5	37
89	Photo- and cathodoluminescence characteristics of blue-light-emitting epitaxial Sr <sub>2</sub> CeO <sub>4</sub> thin-film phosphors. Applied Physics Letters, 2000, 77, 678-680.	3.3	37
90	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-x</sub> coated conductors. Applied Physics Letters, 2003, 83, 3951-3953.	3.3	37

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91	Thin film epitaxy and structure property correlations for non-polar ZnO films. Acta Materialia, 2009, 57, 4426-4431.	7.9	37
92	X-Ray Diffraction Study of Phason Strain Field in Oriented Icosahedral Al-Mn. Physical Review Letters, 1987, 58, 2304-2307.	7.8	36
93	Characterization of zinc implanted silica: Effects of thermal annealing and picosecond laser radiation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 1409-1413.	2.1	36
94	A transmission electron microscopy investigation of sulfide nanocrystals formed by ion implantation. Journal of Materials Research, 1999, 14, 4489-4502.	2.6	36
95	Nucleation of epitaxial yttria-stabilized zirconia on biaxially textured (001) Ni for deposited conductors. Applied Physics Letters, 2000, 76, 2427-2429.	3.3	36
96	Enhanced ultraviolet photoconductivity in semiconducting ZnGa <sub>2</sub> O <sub>4</sub> thin films. Journal of Applied Physics, 2001, 90, 3863-3866.	2.5	36
97	Epitaxial growth of transparent tin oxide films on (0001) sapphire by pulsed laser deposition. Materials Research Bulletin, 2009, 44, 6-10.	5.2	36
98	Plume-induced stress in pulsed-laser deposited CeO <sub>2</sub> films. Applied Physics Letters, 1999, 74, 2134-2136.	3.3	35
99	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</sub> + $\delta$ . Physical Review B, 1990, 41, 7293-7296.	3.2	34
100	Critical current density of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> $\delta$ low-angle grain boundaries in self-field. Applied Physics Letters, 2001, 78, 2031-2033.	3.3	34
101	Micron-resolution 3-D measurement of local orientations near a grain-boundary in plane-strained aluminum using X-ray microbeams. International Journal of Plasticity, 2004, 20, 543-560.	8.8	34
102	In situ X-ray microdiffraction studies inside individual VO <sub>2</sub> microcrystals. Acta Materialia, 2013, 61, 2751-2762.	7.9	34
103	Alternating current losses in biaxially textured YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> $\delta$ films deposited on Ni tapes. Applied Physics Letters, 1997, 71, 2029-2031.	3.3	33
104	Ferromagnetism in pseudocubic BaFeO <sub>3</sub> epitaxial films. Applied Physics Letters, 2008, 92, .	3.3	33
105	Zinc Oxide Microtowers by Vapor Phase Homoepitaxial Regrowth. Advanced Materials, 2009, 21, 890-896.	21.0	33
106	In situ growth of epitaxial Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> $\delta$ and Bi <sub>2</sub> Sr <sub>2</sub> CuO <sub>6</sub> $\delta$ films by pulsed laser ablation. Applied Physics Letters, 1993, 63, 409-411.	3.3	32
107	Strain and Texture in Al-Interconnect Wires Measured by X-Ray Microbeam Diffraction. Materials Research Society Symposia Proceedings, 1999, 563, 175.	0.1	32
108	Epitaxial ZnS films grown on GaAs (001) and (111) by pulsed laser ablation. Journal of Applied Physics, 1993, 73, 7818-7822.	2.5	31

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109	Magneto-optical effects from nanophase $\hat{\text{I}}_{\pm}$ -Fe and $\text{Fe}_3\text{O}_4$ precipitates formed in yttrium-stabilized $\text{ZrO}_2$ by ion implantation and annealing. <i>Applied Physics Letters</i> , 2000, 77, 711-713.	3.3	31
110	Properties of Mn-Implanted $\text{BaTiO}_3$ , $\text{SrTiO}_3$ , and $\text{KTaO}_3$ . <i>Electrochemical and Solid-State Letters</i> , 2003, 6, G19.	2.2	31
111	Oxide ferroelectric materials grown by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 1992, 124, 684-689.	1.5	30
112	Long length fabrication of YBCO on rolling assisted biaxially textured substrates (RABiTS) using pulsed laser deposition. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 2276-2279.	1.7	30
113	Ion beam synthesis of magnetic $\text{CoPt}$ alloys in $\text{Al}_2\text{O}_3$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 260, 319-329.	2.3	30
114	Hydrostatic pressure dependence of the photoluminescence of Si nanocrystals in $\text{SiO}_2$ . <i>Applied Physics Letters</i> , 1996, 68, 87-89.	3.3	29
115	Semiconducting epitaxial films of metastable $\text{SrRu}_{0.5}\text{Sn}_{0.5}\text{O}_3$ grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 1997, 70, 2147-2149.	3.3	29
116	Epitaxial growth of anatase by reactive sputter deposition using water vapor as the oxidant. <i>Thin Solid Films</i> , 2004, 446, 18-22.	1.8	29
117	Strain relief mechanism for damage growth during high-dose, O-implantation of Si. <i>Applied Physics Letters</i> , 1993, 63, 3580-3582.	3.3	27
118	$\text{SrCuO}_2/(\text{Sr,Ca})\text{CuO}_2$ superlattice growth by pulsed laser deposition. <i>Applied Physics Letters</i> , 1994, 65, 2869-2871.	3.3	26
119	Semiconductor Nanocrystals formed in $\text{SiO}_2$ by Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , 1994, 358, 175.	0.1	26
120	Ordered structures in $\text{SixGe}_{1-x}$ alloy thin films. <i>Physical Review B</i> , 1995, 51, 10947-10955.	3.2	26
121	Fabrication of high $J_c/\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ tapes using the newly developed lanthanum manganate single buffer layers. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 2481-2483.	1.7	26
122	$\text{YBaCuO}$ thin films grown on rigid and flexible polycrystalline yttria-stabilized zirconia by pulsed laser ablation. <i>Journal of Applied Physics</i> , 1990, 68, 223-227.	2.5	25
123	Ferroelectric Self-Poling, Switching, and Monoclinic Domain Configuration in $\text{BiFeO}_3$ Thin Films. <i>Advanced Functional Materials</i> , 2016, 26, 5166-5173.	14.9	25
124	Multiple scattering and the 200 reflection in silicon and germanium. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1988, 44, 22-25.	0.3	24
125	Pulsed laser deposition of thin superconducting films of $\text{HoBaCu}_3\text{O}_7$ and $\text{YBaCu}_3\text{O}_7$ . <i>Journal of Materials Research</i> , 1988, 3, 1169-1179.	2.6	24
126	Large, orientation-dependent enhancements of critical currents in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ epitaxial thin films: Evidence for intrinsic flux pinning?. <i>Physica B: Condensed Matter</i> , 1990, 165-166, 1415-1416.	2.7	24



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127	Study of epitaxial platinum thin films grown by metalorganic chemical vapor deposition. Journal of Applied Physics, 1992, 72, 3735-3740.	2.5	24
128	Polychromatic X-ray micro- and nanodiffraction for spatially-resolved structural studies. Thin Solid Films, 2008, 516, 8013-8021.	1.8	24
129	Electron-doped and hole-doped infinite layer $\text{Sr}_{1-x}\text{CuO}_2$ films grown by laser molecular beam epitaxy. Physica C: Superconductivity and Its Applications, 1994, 224, 300-316.	1.2	23
130	Etching-enhanced Ablation and the Formation of a Microstructure in Silicon by Laser Irradiation in an SF6 Atmosphere. Journal of Materials Research, 2002, 17, 1002-1013.	2.6	23
131	High-performance Kirkpatrick-Baez supermirrors for neutron milli- and micro-beams. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 437, 120-125.	5.6	23
132	Structural characterization of two-step growth of epitaxial ZnO films on sapphire substrates at low temperatures. Journal Physics D: Applied Physics, 2009, 42, 105409.	2.8	23
133	At the limit of polychromatic microdiffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 524, 3-9.	5.6	23
134	Nanocrystals and Quantum Dots Formed by High-Dose Ion Implantation. Materials Research Society Symposia Proceedings, 1995, 396, 377.	0.1	22
135	Influence of oxygen background pressure on crystalline quality of SrTiO3 films grown on MgO by pulsed laser deposition. Applied Physics Letters, 1997, 71, 1709-1711.	3.3	22
136	Epitaxial structure and transport in $\text{LaTiO}_{3+x}$ films on (001) SrTiO3. Physica Status Solidi A, 2003, 200, 346-351.	1.7	22
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