

Quanxi Jia

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6072607/quanxi-jia-publications-by-year.pdf>

Version: 2024-04-26

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

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

462
papers

17,866
citations

68
h-index

114
g-index

491
ext. papers

19,162
ext. citations

5.8
avg. IF

6.22
L-index

#	Paper	IF	Citations
462	Correlation between thickness dependent nanoscale structural chemistry and superconducting properties of ultrathin epitaxial NbN films. <i>Materials Chemistry and Physics</i> , 2022 , 282, 125962	4.4	0
461	Regulating off-centering distortion maximizes photoluminescence in halide perovskites. <i>National Science Review</i> , 2021 , 8, nwa288	10.8	31
460	Engineering ferromagnetic lines in graphene by local oxidation and hydrogenation using nanoscale lithography. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 074002	3	0
459	Ultrathin epitaxial NbN superconducting films with high upper critical field grown at low temperature. <i>Materials Research Letters</i> , 2021 , 9, 336-342	7.4	3
458	Self-biased magnetoelectric switching at room temperature in three-phase ferroelectric/antiferromagnetic/ferromagnetic nanocomposites. <i>Nature Electronics</i> , 2021 , 4, 333-341	28.4	8
457	Chalcogenide perovskite BaZrS ₃ thin-film electronic and optoelectronic devices by low temperature processing. <i>Nano Energy</i> , 2021 , 85, 105959	17.1	13
456	Proton switching molecular magnetoelectricity. <i>Nature Communications</i> , 2021 , 12, 4602	17.4	2
455	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2629-2636	16.4	12
454	High performance, electroforming-free, thin film memristors using ionic Na _{0.5} Bi _{0.5} TiO ₃ . <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4522-4531	7.1	4
453	A pathway to desired functionalities in vertically aligned nanocomposites and related architectures. <i>MRS Bulletin</i> , 2021 , 46, 115-122	3.2	4
452	Realization of BaZrS ₃ chalcogenide perovskite thin films for optoelectronics. <i>Nano Energy</i> , 2020 , 68, 104317	17.1	35
451	Structural and Optical Properties of Phase-Pure UO ₂ , HfO ₂ , and HfO ₂ Epitaxial Thin Films Grown by Pulsed Laser Deposition. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35232-35241	9.5	9
450	Ti-Alloying of BaZrS Chalcogenide Perovskite for Photovoltaics. <i>ACS Omega</i> , 2020 , 5, 18579-18583	3.9	20
449	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. <i>Advanced Functional Materials</i> , 2020 , 30, 2000664	15.6	18
448	Induced ferroelectric phases in SrTiO ₃ by a nanocomposite approach. <i>Nanoscale</i> , 2020 , 12, 18193-18199	7.7	6
447	Enhanced magnetocaloric performance in manganite bilayers. <i>Journal of Applied Physics</i> , 2020 , 127, 154102	10.2	4
446	3D strain-induced superconductivity in LaCuO using a simple vertically aligned nanocomposite approach. <i>Science Advances</i> , 2019 , 5, eaav5532	14.3	22

445	Magnetic and tunable dielectric properties of DyCrO ₃ thin films. <i>Journal of Materials Science</i> , 2019 , 54, 8984-8994	4.3	7
444	Strain Enhanced Functionality in a Bottom-Up Approach Enabled 3D Super-Nanocomposites. <i>Advanced Functional Materials</i> , 2019 , 29, 1900442	15.6	14
443	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. <i>Advanced Science</i> , 2019 , 6, 1901000	13.6	17
442	Metallic interface induced by electronic reconstruction in crystalline-amorphous bilayer oxide films. <i>Science Bulletin</i> , 2019 , 64, 1567-1572	10.6	0
441	Nanoscale magnetization inhomogeneity within single phase nanopillars. <i>Physical Review Materials</i> , 2019 , 3,	3.2	3
440	Magnetoelectric Radical Hydrocarbons. <i>Advanced Materials</i> , 2019 , 31, e1806263	24	2
439	Metal Oxide Nanocomposites: A Perspective from Strain, Defect, and Interface. <i>Advanced Materials</i> , 2019 , 31, e1803241	24	84
438	Role of temperature and oxygen content on structural and electrical properties of LaBaCoO thin films. <i>Applied Physics Letters</i> , 2018 , 112, 073905	3.4	7
437	Enhanced Metal-Insulator Transition Performance in Scalable Vanadium Dioxide Thin Films Prepared Using a Moisture-Assisted Chemical Solution Approach. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8341-8348	9.5	27
436	Upper limit for the effect of elastic bending stress on the saturation magnetization of La _{0.8} Sr _{0.2} MnO ₃ . <i>Physical Review B</i> , 2018 , 97,	3.3	4
435	Correlation of structural and electrical properties of PrBaCo ₂ O _{5+δ} thin films at high temperature. <i>Journal of Materiomics</i> , 2018 , 4, 51-55	6.7	6
434	Unraveling thickness-dependent spin relaxation in colossal magnetoresistance manganite films. <i>Applied Physics Letters</i> , 2018 , 113, 012402	3.4	1
433	Electrical-current-induced magnetic hysteresis in self-assembled vertically aligned La _{2/3} Sr _{1/3} MnO ₃ :ZnO nanopillar composites. <i>Physical Review Materials</i> , 2018 , 2,	3.2	2
432	Stoichiometry control and electronic and transport properties of pyrochlore Bi ₂ Ir ₂ O ₇ thin films. <i>Physical Review Materials</i> , 2018 , 2,	3.2	6
431	Enhanced Performance of Field-Effect Transistors Based on Black Phosphorus Channels Reduced by Galvanic Corrosion of Al Overlayers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18895-18901	9.5	6
430	Hidden Interface Driven Exchange Coupling in Oxide Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1700672	24	17
429	Oxygen Vacancy-Tuned Physical Properties in Perovskite Thin Films with Multiple B-site Valance States. <i>Scientific Reports</i> , 2017 , 7, 46184	4.9	37
428	Oxygen content tailored magnetic and electronic properties in cobaltite double perovskite thin films. <i>Applied Physics Letters</i> , 2017 , 110, 093102	3.4	18

427	Colossal Terahertz Magnetoresistance at Room Temperature in Epitaxial LaSrMnO Nanocomposites and Single-Phase Thin Films. <i>Nano Letters</i> , 2017 , 17, 2506-2511	11.5	16
426	Magnetic, electronic, and optical properties of double perovskite Bi ₂ FeMnO ₆ . <i>APL Materials</i> , 2017 , 5, 035601	5.7	28
425	Epitaxial thin films of pyrochlore iridate Bi ₂ IrO ₇ : structure, defects and transport properties. <i>Scientific Reports</i> , 2017 , 7, 7740	4.9	24
424	Pressure-induced dramatic changes in organic-inorganic halide perovskites. <i>Chemical Science</i> , 2017 , 8, 6764-6776	9.4	57
423	Surface oxidation and thermoelectric properties of indium-doped tin telluride nanowires. <i>Nanoscale</i> , 2017 , 9, 13014-13024	7.7	14
422	Turning antiferromagnetic Sm _{0.34} Sr _{0.66} MnO ₃ into a 140 K ferromagnet using a nanocomposite strain tuning approach. <i>Nanoscale</i> , 2016 , 8, 8083-90	7.7	18
421	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 10119-10122	3.6	22
420	Interface-Coupled BiFeO ₃ /BiMnO ₃ Superlattices with Magnetic Transition Temperature up to 410 K. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500597	4.6	11
419	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9965-8	16.4	155
418	Role of scaffold network in controlling strain and functionalities of nanocomposite films. <i>Science Advances</i> , 2016 , 2, e1600245	14.3	70
417	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. <i>Nature Communications</i> , 2016 , 7, 12373	17.4	67
416	Mastering the interface for advanced all-solid-state lithium rechargeable batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13313-13317	11.5	193
415	Site-mixing effect on the XMCD spectrum in double perovskite Bi ₂ FeMnO ₆ . <i>Applied Physics Letters</i> , 2016 , 108, 242907	3.4	11
414	Two-Dimensional Layered Oxide Structures Tailored by Self-Assembled Layer Stacking via Interfacial Strain. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16845-51	9.5	19
413	Antiperovskite LiOCl Superionic Conductor Films for Solid-State Li-Ion Batteries. <i>Advanced Science</i> , 2016 , 3, 1500359	13.6	120
412	Stabilizing new bismuth compounds in thin film form. <i>Journal of Materials Research</i> , 2016 , 31, 3530-3537	2.5	7
411	Epitaxial growth and physical properties of ternary nitride thin films by polymer-assisted deposition. <i>Applied Physics Letters</i> , 2016 , 109, 081907	3.4	2
410	Oxygen vacancy-driven evolution of structural and electrical properties in SrFeO _{3-δ} thin films and a method of stabilization. <i>Applied Physics Letters</i> , 2016 , 109, 141906	3.4	15

409	Self-Assembled Epitaxial Au-Oxide Vertically Aligned Nanocomposites for Nanoscale Metamaterials. <i>Nano Letters</i> , 2016 , 16, 3936-43	11.5	75
408	Conducting Interface in Oxide Homojunction: Understanding of Superior Properties in Black TiO ₂ . <i>Nano Letters</i> , 2016 , 16, 5751-5	11.5	77
407	Self-Assembled Magnetic Metallic Nanopillars in Ceramic Matrix with Anisotropic Magnetic and Electrical Transport Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20283-91	9.5	33
406	Enhanced Structural Stability and Photo Responsiveness of CH ₃ NH ₃ SnI ₃ Perovskite via Pressure-Induced Amorphization and Recrystallization. <i>Advanced Materials</i> , 2016 , 28, 8663-8668	24	134
405	Strong perpendicular exchange bias in epitaxial La _{0.7} Sr _{0.3} MnO ₃ :BiFeO ₃ nanocomposite films through vertical interfacial coupling. <i>Nanoscale</i> , 2015 , 7, 13808-15	7.7	37
404	Synthetic magnetoelectric coupling in a nanocomposite multiferroic. <i>Scientific Reports</i> , 2015 , 5, 9089	4.9	17
403	Configuration of ripple domains and their topological defects formed under local mechanical stress on hexagonal monolayer graphene. <i>Scientific Reports</i> , 2015 , 5, 9390	4.9	9
402	Perpendicular Exchange-Biased Magnetotransport at the Vertical Heterointerfaces in La _{0.7} Sr _{0.3} MnO ₃ :NiO Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21646-51	9.5	37
401	Strongly enhanced oxygen ion transport through samarium-doped CeO ₂ nanopillars in nanocomposite films. <i>Nature Communications</i> , 2015 , 6, 8588	17.4	116
400	Ionic Conductivity Increased by Two Orders of Magnitude in Micrometer-Thick Vertical Yttria-Stabilized ZrO ₂ Nanocomposite Films. <i>Nano Letters</i> , 2015 , 15, 7362-9	11.5	73
399	Obtaining ultimate functionalities in nanocomposites: Design, control, and fabrication. <i>MRS Bulletin</i> , 2015 , 40, 719-724	3.2	37
398	Field-dependent magnetization of BiFeO ₃ in an ultrathin La _{0.7} Sr _{0.3} MnO ₃ /BiFeO ₃ superlattice. <i>Physical Review B</i> , 2015 , 92,	3.3	12
397	Heterointerface design and strain tuning in epitaxial BiFeO ₃ :CoFe ₂ O ₄ nanocomposite films. <i>Applied Physics Letters</i> , 2015 , 107, 212901	3.4	25
396	Technology, Preparation, and Characterization 2015 , 193-402		
395	Atomic-scale EDS Mapping for Chemical Imaging and Quantification of Interdiffusion in Self-assembled Vertically Aligned Nanocomposite Thin Films. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2249-2250	0.5	
394	Strain Tuning and Strong Enhancement of Ionic Conductivity in SrZrO ₃ RE ₂ O ₃ (RE = Sm, Eu, Gd, Dy, and Er) Nanocomposite Films. <i>Advanced Functional Materials</i> , 2015 , 25, 4328-4333	15.6	41
393	Strain Localization in Thin Films of Bi(Fe,Mn)O ₃ Due to the Formation of Stepped Mn(4+)-Rich Antiphase Boundaries. <i>Nanoscale Research Letters</i> , 2015 , 10, 407	5	11
392	YBCO-Coated Conductors 2015 , 1-11		

391	New strain states and radical property tuning of metal oxides using a nanocomposite thin film approach. <i>APL Materials</i> , 2015 , 3, 062507	5.7	34
390	Modification of structure and magnetic anisotropy of epitaxial CoFe ₂ O ₄ films by hydrogen reduction. <i>Applied Physics Letters</i> , 2015 , 106, 111907	3.4	8
389	Evolution of microstructure, strain and physical properties in oxide nanocomposite films. <i>Scientific Reports</i> , 2014 , 4, 5426	4.9	29
388	Role of microstructures on the M1-M2 phase transition in epitaxial VO ₂ thin films. <i>Scientific Reports</i> , 2014 , 4, 4854	4.9	75
387	Chemical solution derived planarization layers for highly aligned IBAD-MgO templates. <i>Superconductor Science and Technology</i> , 2014 , 27, 022002	3.1	26
386	Linking Interfacial Step Structure and Chemistry with Locally Enhanced Radiation-Induced Amorphization at Oxide Heterointerfaces. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300142	4.6	20
385	Interfacial coupling in heteroepitaxial vertically aligned nanocomposite thin films: From lateral to vertical control. <i>Current Opinion in Solid State and Materials Science</i> , 2014 , 18, 6-18	12	87
384	Nucleation and growth of epitaxial metal-oxide films based on polymer-assisted deposition. <i>Chemical Society Reviews</i> , 2014 , 43, 2141-6	58.5	21
383	Interlayer Effects on Oxygen Reduction Kinetics in Porous Electrodes of La _{0.5} Sr _{0.5} CoO ₃ -□ <i>Journal of the Electrochemical Society</i> , 2014 , 161, F398-F404	3.9	3
382	Li-rich anti-perovskite Li ₃ OCl films with enhanced ionic conductivity. <i>Chemical Communications</i> , 2014 , 50, 11520-2	5.8	95
381	Role of the interface on the magnetoelectric properties of BaTiO ₃ thin films deposited on polycrystalline Ni foils. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 708-714	7.1	26
380	Induced magnetization in La _{0.7} Sr _{0.3} MnO ₃ /BiFeO ₃ superlattices. <i>Physical Review Letters</i> , 2014 , 113, 047204	7.1	52
379	Novel electroforming-free nanoscaffold memristor with very high uniformity, tunability, and density. <i>Advanced Materials</i> , 2014 , 26, 6284-9	24	62
378	Structural and transport properties of epitaxial Ba(Fe _{1-x} Co _x) ₂ As ₂ thin films on various substrates. <i>Superconductor Science and Technology</i> , 2014 , 27, 115010	3.1	10
377	Precise Tuning of (YBa ₂ Cu ₃ O _{7-δ}) _{1-x} (BaZrO ₃) _x Thin Film Nanocomposite Structures. <i>Advanced Functional Materials</i> , 2014 , 24, 5240-5245	15.6	40
376	Chemical quantification of atomic-scale EDS maps under thin specimen conditions. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1782-90	0.5	40
375	Strain relaxation and enhanced perpendicular magnetic anisotropy in BiFeO ₃ :CoFe ₂ O ₄ vertically aligned nanocomposite thin films. <i>Applied Physics Letters</i> , 2014 , 104, 062402	3.4	42
374	Room Temperature Ferrimagnetism and Ferroelectricity in Strained, Thin Films of BiFeMnO. <i>Advanced Functional Materials</i> , 2014 , 24, 7478-7487	15.6	33

373	Ferroelectric and ferromagnetic properties of epitaxial BiFeO ₃ -BiMnO ₃ films on ion-beam-assisted deposited TiN buffered flexible Hastelloy. <i>Journal of Applied Physics</i> , 2014 , 115, 17D913	2.5	7
372	Role of the interface on radiation damage in the SrTiO ₃ /LaAlO ₃ heterostructure under Ne ²⁺ ion irradiation. <i>Journal of Applied Physics</i> , 2014 , 115, 124315	2.5	9
371	Using ultrashort optical pulses to couple ferroelectric and ferromagnetic order in an oxide heterostructure. <i>Nature Communications</i> , 2014 , 5, 5832	17.4	25
370	Textured metastable VO ₂ (B) thin films on SrTiO ₃ substrates with significantly enhanced conductivity. <i>Applied Physics Letters</i> , 2014 , 104, 071909	3.4	33
369	Method for controlling energy density for reliable pulsed laser deposition of thin films. <i>Review of Scientific Instruments</i> , 2014 , 85, 025111	1.7	6
368	Orientation-specific amorphization and intercalated recrystallization at ion-irradiated SrTiO ₃ /MgO interfaces. <i>Journal of Materials Research</i> , 2014 , 29, 1699-1710	2.5	12
367	Effect of Mn Doping on the Properties of Sol-gel Derived Pb _{0.3} Sr _{0.7} TiO ₃ Thin Films. <i>Ferroelectrics</i> , 2014 , 470, 227-233	0.6	2
366	High quality epitaxial thin films of actinide oxides, carbides, and nitrides: Advancing understanding of electronic structure of f-element materials. <i>Coordination Chemistry Reviews</i> , 2014 , 266-267, 137-154	23.2	37
365	Influence of film thickness in THz active metamaterial devices: A comparison between superconductor and metal split-ring resonators. <i>Applied Physics Letters</i> , 2013 , 103, 061117	3.4	18
364	Photoinduced stabilization and enhancement of the ferroelectric polarization in Ba _{0.1} Sr _{0.9} TiO ₃ /La _{0.7} Ca(Sr) _{0.3} MnO ₃ thin film heterostructures. <i>Physical Review B</i> , 2013 , 88,	3.3	14
363	Nickel substituted LiMn ₂ O ₄ cathode with durable high-rate capability for Li-ion batteries. <i>RSC Advances</i> , 2013 , 3, 18441	3.7	28
362	Vertically aligned nanocomposite La _{0.8} Sr _{0.2} MnO ₃ /Zr _{0.92} Y _{0.08} O _{1.96} thin films as electrode/electrolyte interfacial layer for solid oxide reversible fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 16320-16327	6.7	25
361	Microstructure, vertical strain control and tunable functionalities in self-assembled, vertically aligned nanocomposite thin films. <i>Acta Materialia</i> , 2013 , 61, 2783-2792	8.4	132
360	Optical band gap of NpO ₂ and PuO ₂ from optical absorbance of epitaxial films. <i>Journal of Applied Physics</i> , 2013 , 113, 013515	2.5	42
359	Strain-Induced Ferromagnetism and Magnetoresistance in Epitaxial Thin Films of LaCoO ₃ Prepared by Polymer-Assisted Deposition. <i>Chemistry of Materials</i> , 2013 , 25, 55-58	9.6	37
358	Polymer-assisted-deposition: a chemical solution route for a wide range of materials. <i>Chemical Society Reviews</i> , 2013 , 42, 439-49	58.5	75
357	A new class of room-temperature multiferroic thin films with bismuth-based supercell structure. <i>Advanced Materials</i> , 2013 , 25, 1028-32	24	66
356	Ultrafast carrier dynamics and radiative recombination in multiferroic BiFeO ₃ single crystals and thin films. <i>EPJ Web of Conferences</i> , 2013 , 41, 03018	0.3	2

355	A novel carbon nanotube/polymer composite film for counter electrodes of dye-sensitized solar cells. <i>Polymer Chemistry</i> , 2013 , 4, 1680	4.9	25
354	Radiation damage in heteroepitaxial BaTiO ₃ thin films on SrTiO ₃ under Ne ion irradiation. <i>Journal of Applied Physics</i> , 2013 , 113, 023513	2.5	18
353	Preparation of Epitaxial Uranium Dicarbide Thin Films by Polymer-Assisted Deposition. <i>Chemistry of Materials</i> , 2013 , 25, 4373-4377	9.6	11
352	Atomic-scale chemical quantification of oxide interfaces using energy-dispersive X-ray spectroscopy. <i>Applied Physics Letters</i> , 2013 , 102, 173111	3.4	34
351	Nonlinear high-temperature superconducting terahertz metamaterials. <i>New Journal of Physics</i> , 2013 , 15, 105016	2.9	31
350	Role of boundaries on low-field magnetotransport properties of La _{0.7} Sr _{0.3} MnO ₃ -based nanocomposite thin films. <i>Journal of Materials Research</i> , 2013 , 28, 1707-1714	2.5	21
349	Tuning the electronic properties of ultrathin La _{0.7} Sr _{0.3} MnO ₃ films by interfacing with superconducting EuBa ₂ Cu ₃ O ₇ . <i>Physical Review B</i> , 2013 , 87,	3.3	3
348	Magnetotransport properties of quasi-one-dimensionally channeled vertically aligned heteroepitaxial nanomazes. <i>Applied Physics Letters</i> , 2013 , 102, 093114	3.4	30
347	Research Updates: Epitaxial strain relaxation and associated interfacial reconstructions: The driving force for creating new structures with integrated functionality. <i>APL Materials</i> , 2013 , 1, 050702	5.7	24
346	Frequency shifts of the E ₂ high Raman mode due to residual stress in epitaxial ZnO thin films. <i>Applied Physics Letters</i> , 2013 , 103, 121904	3.4	14
345	Upper critical magnetic field and vortex-free state in very thin epitaxial EMoN films grown by polymer-assisted deposition. <i>Superconductor Science and Technology</i> , 2013 , 26, 105023	3.1	15
344	Defect Distributions and Transport in Nanocomposites: A Theoretical Perspective. <i>Materials Research Letters</i> , 2013 , 1, 193-199	7.4	18
343	Optical and x-ray time resolved study of the structural transition in mixed valence manganites. <i>EPJ Web of Conferences</i> , 2013 , 41, 03002	0.3	
342	Polymer-Assisted Deposition 2013 , 141-158		
341	Femtosecond dynamics of the structural transition in mixed valence manganites. <i>Physical Review B</i> , 2012 , 86,	3.3	16
340	Nanotwins and stacking faults in high-strength epitaxial Ag/Al multilayer films. <i>Applied Physics Letters</i> , 2012 , 101, 223112	3.4	78
339	Coexistence of coupled magnetic phases in epitaxial TbMnO ₃ films revealed by ultrafast optical spectroscopy. <i>Applied Physics Letters</i> , 2012 , 101, 122904	3.4	20
338	Aligned carbon nanotubes sandwiched in epitaxial NbC film for enhanced superconductivity. <i>Nanoscale</i> , 2012 , 4, 2268-71	7.7	11

337	Growth dynamics of barium titanate thin films on polycrystalline Ni foils using polymer-assisted deposition technique. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2199-203	9.5	19
336	Extremely high tunability and low loss in nanoscaffold ferroelectric films. <i>Nano Letters</i> , 2012 , 12, 4311-7	11.5	58
335	Ultrafast carrier dynamics and radiative recombination in multiferroic BiFeO ₃ . <i>Applied Physics Letters</i> , 2012 , 100, 242904	3.4	64
334	Tuning of defects in ZnO nanorod arrays used in bulk heterojunction solar cells. <i>Nanoscale Research Letters</i> , 2012 , 7, 655	5	42
333	Magneto-resistance up to 60 Tesla in topological insulator Bi ₂ Te ₃ thin films. <i>Applied Physics Letters</i> , 2012 , 101, 202403	3.4	76
332	Optical tuning and ultrafast dynamics of high-temperature superconducting terahertz metamaterials. <i>Nanophotonics</i> , 2012 , 1, 117-123	6.3	63
331	Influence of defect-induced biaxial strain on flux pinning in thick YBa ₂ Cu ₃ O ₇ layers. <i>Physical Review B</i> , 2012 , 86,	3.3	15
330	Polymer-assisted chemical solution approach to YVO ₄ :Eu nanoparticle networks. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5835		19
329	Thermal and ultrafast optical tuning of ultrathin high-temperature superconducting terahertz metamaterials 2012 ,		2
328	Magnetoelectric properties of flexible BiFeO ₃ /Ni tapes. <i>Applied Physics Letters</i> , 2012 , 101, 012908	3.4	15
327	Irradiation induced changes in small angle grain boundaries in mosaic Cu thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 108, 121-126	2.6	4
326	Characterization of irradiation damage distribution near TiO ₂ /SrTiO ₃ interfaces using coherent acoustic phonon interferometry. <i>Applied Physics Letters</i> , 2012 , 100, 251603	3.4	12
325	Epitaxial growth and metal-insulator transition of vanadium oxide thin films with controllable phases. <i>Applied Physics Letters</i> , 2012 , 101, 071902	3.4	51
324	Coexistence of bi-stable memory and mono-stable threshold resistance switching phenomena in amorphous NbO _x films. <i>Applied Physics Letters</i> , 2012 , 100, 062902	3.4	36
323	Microstructure, magnetic, and low-field magnetotransport properties of self-assembled (La _{0.7} Sr _{0.3} MnO ₃) _{0.5} :(CeO ₂) _{0.5} vertically aligned nanocomposite thin films. <i>Nanotechnology</i> , 2011 , 22, 315712	3.4	59
322	Self-separated PZT thick films with bulk-like piezoelectric and electromechanical properties. <i>Journal of Materials Research</i> , 2011 , 26, 1431-1435	2.5	9
321	Highly aligned carbon nanotube forests coated by superconducting NbC. <i>Nature Communications</i> , 2011 , 2, 428	17.4	27
320	Microstructural and magnetic properties of (La _{0.7} Sr _{0.3} MnO ₃) _{0.7} :(Mn ₃ O ₄) _{0.3} nanocomposite thin films. <i>Journal of Applied Physics</i> , 2011 , 109, 054302	2.5	40

319	Nanoscale lithography on monolayer graphene using hydrogenation and oxidation. <i>ACS Nano</i> , 2011 , 5, 6417-24	16.7	122
318	Efficient synthesis of tailored magnetic carbon nanotubes via a noncovalent chemical route. <i>Nanoscale</i> , 2011 , 3, 668-73	7.7	13
317	Thermal tunability in terahertz metamaterials fabricated on strontium titanate single-crystal substrates. <i>Optics Letters</i> , 2011 , 36, 1230-2	3	124
316	Thick lead-free ferroelectric films with high Curie temperatures through nanocomposite-induced strain. <i>Nature Nanotechnology</i> , 2011 , 6, 491-5	28.7	191
315	Strain Mismatch Induced Tilted Heteroepitaxial (000l) Hexagonal ZnO Films on (001) Cubic Substrates. <i>Advanced Engineering Materials</i> , 2011 , 13, 1142-1145	3.5	1
314	Tunable Low-Field Magnetoresistance in (La _{0.7} Sr _{0.3} MnO ₃) _{0.5} :(ZnO) _{0.5} Self-Assembled Vertically Aligned Nanocomposite Thin Films. <i>Advanced Functional Materials</i> , 2011 , 21, 2423-2429	15.6	158
313	Multilevel data storage memory devices based on the controlled capacitive coupling of trapped electrons. <i>Advanced Materials</i> , 2011 , 23, 2064-8	24	69
312	Strong room temperature magnetism in highly resistive strained thin films of BiFe _{0.5} Mn _{0.5} O ₃ . <i>Applied Physics Letters</i> , 2011 , 98, 012509	3.4	36
311	Epitaxial superconducting EMoN films grown by a chemical solution method. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20735-7	16.4	43
310	Controlling Crystal Structure and Oxidation State in Molybdenum Nitrides through Epitaxial Stabilization. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17880-17883	3.8	31
309	Magnetic Properties of Self-Assembled Epitaxial Nanocomposite CoFe ₂ O ₄ :SrTiO ₃ and CoFe ₂ O ₄ :MgO Films. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 25338-25342	3.8	22
308	Producing superior composites by winding carbon nanotubes onto a mandrel under a poly(vinyl alcohol) spray. <i>Carbon</i> , 2011 , 49, 4786-4791	10.4	100
307	DIELECTRIC PROPERTIES OF EPITAXIAL Ba _{1-x} Sr _x TiO ₃ FILMS ON MgO SUBSTRATES. <i>Functional Materials Letters</i> , 2011 , 04, 41-44	1.2	3
306	The role of thermally and chemically stable composite Y ₂ O ₃ :Al ₂ O ₃ in the development of YBa ₂ Cu ₃ O _{7-δ} films on metal substrates. <i>Superconductor Science and Technology</i> , 2010 , 23, 045012	3.1	3
305	5f Electronic Structure and Fermiology of Pu Materials. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1264, 1		3
304	Much simplified ion-beam assisted deposition-TiN template for high-performance coated conductors. <i>Journal of Applied Physics</i> , 2010 , 108, 083903	2.5	25
303	Tuning the resonance in high-temperature superconducting terahertz metamaterials. <i>Physical Review Letters</i> , 2010 , 105, 247402	7.4	188
302	Phase transitions and domain stabilities in biaxially strained (001) SrTiO ₃ epitaxial thin films. <i>Journal of Applied Physics</i> , 2010 , 108, 084113	2.5	20

301	A modified Landau-Devonshire thermodynamic potential for strontium titanate. <i>Applied Physics Letters</i> , 2010 , 96, 232902	3.4	31
300	Investigation of (Y,Gd)Ba ₂ Cu ₃ O _{7-x} grown by MOCVD on a simplified IBAD MgO template. <i>Superconductor Science and Technology</i> , 2010 , 23, 014011	3.1	9
299	Carbon nanotube yarn strain sensors. <i>Nanotechnology</i> , 2010 , 21, 305502	3.4	177
298	Oxygen concentration and its effect on the leakage current in BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2010 , 96, 012909	3.4	116
297	Nanoconfined surfactant templated electrodeposition to porous hierarchical nanowires and nanotubes. <i>Nanotechnology</i> , 2010 , 21, 165603	3.4	16
296	A chemical solution approach for superconducting and hard epitaxial NbC film. <i>Chemical Communications</i> , 2010 , 46, 7837-9	5.8	19
295	Chemical solution deposition of epitaxial carbide films. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2516-7	16.4	39
294	Nanoporous thin films with controllable nanopores processed from vertically aligned nanocomposites. <i>Nanotechnology</i> , 2010 , 21, 285606	3.4	12
293	Facile Synthesis and Electrical Properties of Silver Wires through Chemical Reduction by Polyaniline. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22147-22154	3.8	37
292	Enhanced critical current in YBa ₂ Cu ₃ O _{7-x} thin films through pinning by ferromagnetic YFeO ₃ nanoparticles. <i>Superconductor Science and Technology</i> , 2010 , 23, 045019	3.1	30
291	Recyclable and electrically conducting carbon nanotube composite films. <i>Nanoscale</i> , 2010 , 2, 418-22	7.7	17
290	Strain relaxation in epitaxial (Pb,Sr)TiO ₃ thin films on NdGaO ₃ substrates. <i>Applied Physics Letters</i> , 2010 , 96, 102901	3.4	16
289	Strongly enhanced current densities in superconducting coated conductors of YBa ₂ Cu ₃ O _{7-x} + BaZrO ₃ 2010 , 327-331		
288	Materials science challenges for high-temperature superconducting wire 2010 , 299-310		1
287	A novel approach to fabricate high volume fraction nanocomposites with long aligned carbon nanotubes. <i>Composites Science and Technology</i> , 2010 , 70, 1980-1985	8.6	162
286	An intermetallic FeZr catalyst used for growing long carbon nanotube arrays. <i>Materials Letters</i> , 2010 , 64, 1947-1950	3.3	3
285	Polymer-embedded carbon nanotube ribbons for stretchable conductors. <i>Advanced Materials</i> , 2010 , 22, 3027-31	24	253
284	Facile chemical solution deposition of high-mobility epitaxial germanium films on silicon. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1782-5	16.4	17

283	A Review of Epitaxial Metal-Nitride Films by Polymer-Assisted Deposition. <i>Transactions on Electrical and Electronic Materials</i> , 2010 , 11, 54-60	1.7	17
282	Self-assembled multilayers and enhanced superconductivity in $(\text{YBa}_2\text{Cu}_3\text{O}_{7-x})_{0.5}:(\text{BaZrO}_3)_{0.5}$ nanocomposite films. <i>Journal of Applied Physics</i> , 2009 , 106, 093914	2.5	25
281	The role of interfacial defects in enhancing the critical current density of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ coatings. <i>Superconductor Science and Technology</i> , 2009 , 22, 125002	3.1	24
280	Interfacial Strain-Induced Oxygen Disorder as the Cause of Enhanced Critical Current Density in Superconducting Thin Films. <i>Advanced Functional Materials</i> , 2009 , 19, 835-841	15.6	41
279	A Chemical Solution Approach to Epitaxial Metal Nitride Thin Films. <i>Advanced Materials</i> , 2009 , 21, 193-197	2.7	27
278	Vertical Interface Effect on the Physical Properties of Self-Assembled Nanocomposite Epitaxial Films. <i>Advanced Materials</i> , 2009 , 21, 3794-3798	24	82
277	Highly Conductive Films of Layered Ternary Transition-Metal Nitrides. <i>Angewandte Chemie</i> , 2009 , 121, 1518-1521	3.6	5
276	Highly conductive films of layered ternary transition-metal nitrides. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1490-3	16.4	22
275	Electrochromatic carbon nanotube/polydiacetylene nanocomposite fibres. <i>Nature Nanotechnology</i> , 2009 , 4, 738-41	28.7	294
274	Vertical connection of carbon nanotubes to silicon at room temperature using a chemical route. <i>Carbon</i> , 2009 , 47, 933-937	10.4	12
273	A double-layered carbon nanotube array with super-hydrophobicity. <i>Carbon</i> , 2009 , 47, 3332-3336	10.4	14
272	Tailoring the morphology of carbon nanotube arrays: from spinnable forests to undulating foams. <i>ACS Nano</i> , 2009 , 3, 2157-62	16.7	83
271	Ultrafast structural phase transition driven by photoinduced melting of charge and orbital order. <i>Physical Review Letters</i> , 2009 , 103, 155702	7.4	98
270	Tunable lattice strain in vertically aligned nanocomposite $(\text{BiFeO}_3)_x:(\text{Sm}_2\text{O}_3)_{1-x}$ thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 094309	2.5	34
269	Thickness dependence of critical current density in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films with BaZrO_3 and Y_2O_3 addition. <i>Superconductor Science and Technology</i> , 2009 , 22, 085013	3.1	48
268	Spontaneous ordering, strain control, and multifunctionality in vertical nanocomposite heteroepitaxial films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 1534-8	3.2	13
267	Composite $\text{Y}_2\text{O}_3\text{-Al}_2\text{O}_3$ as Diffusion Barrier/Nucleation Layer for HTS Coated Conductors Based on IBAD MgO. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 3459-3462	1.8	9
266	Strain control and spontaneous phase ordering in vertical nanocomposite heteroepitaxial thin films. <i>Nature Materials</i> , 2008 , 7, 314-20	27	297

265	Epitaxial GaN Thin Films Prepared by Polymer-Assisted Deposition. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20535-20538	3.8	14
264	Epitaxial ternary nitride thin films prepared by a chemical solution method. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15224-5	16.4	22
263	Strong and ductile colossal carbon tubes with walls of rectangular macropores. <i>Physical Review Letters</i> , 2008 , 101, 145501	7.4	22
262	Rectifying current-voltage characteristics of BiFeO ₃ /Nb-doped SrTiO ₃ heterojunction. <i>Applied Physics Letters</i> , 2008 , 92, 102113	3.4	166
261	Structural and dielectric properties of epitaxial Sm ₂ O ₃ thin films. <i>Applied Physics Letters</i> , 2008 , 92, 062905	3.4	46
260	Polymer assisted deposition. <i>Chemical Communications</i> , 2008 , 1271-7	5.8	79
259	Structural and Photoelectrochemical Properties of BiVO ₄ Thin Films. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 6099-6102	3.8	126
258	Ultrathin epitaxial superconducting niobium nitride films grown by a chemical solution technique. <i>Chemical Communications</i> , 2008 , 6022-4	5.8	28
257	Vertically aligned pearl-like carbon nanotube arrays for fiber spinning. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1130-1	16.4	79
256	Strain Relaxation in Sol-Gel Grown Epitaxial Anatase Thin Films. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4205-4208	3.8	11
255	Mobility enhanced photoactivity in sol-gel grown epitaxial anatase TiO ₂ films. <i>Langmuir</i> , 2008 , 24, 2695-8	3.4	24
254	Leakage mechanisms of self-assembled (BiFeO ₃) _{0.5} :(Sm ₂ O ₃) _{0.5} nanocomposite films. <i>Applied Physics Letters</i> , 2008 , 93, 142904	3.4	58
253	Misfit strain/misfit strain diagram of epitaxial BaTiO ₃ thin films: Thermodynamic calculations and phase-field simulations. <i>Applied Physics Letters</i> , 2008 , 93, 232904	3.4	44
252	Structural and superconducting properties of (Y,Gd)Ba ₂ Cu ₃ O ₇ grown by MOCVD on samarium zirconate buffered IBAD-MgO. <i>Superconductor Science and Technology</i> , 2008 , 21, 105023	3.1	12
251	BaTiO ₃ -RELATED FERROELECTRIC THIN FILMS BY POLYMER ASSISTED DEPOSITION. <i>Integrated Ferroelectrics</i> , 2008 , 100, 132-139	0.8	6
250	Improved microstructure and enhanced low-field J _c in (Y _{0.67} Eu _{0.33})Ba ₂ Cu ₃ O ₇ films. <i>Superconductor Science and Technology</i> , 2008 , 21, 025001	3.1	18
249	The role of strain in hydrogenation induced cracking in Si _{1-x} Bi _x /Ge _{1-x} Bi _x structures. <i>Applied Physics Letters</i> , 2008 , 93, 041909	3.4	9
248	Strain effect on coercive field of epitaxial barium titanate thin films. <i>Applied Physics Letters</i> , 2008 , 92, 142907	3.4	42

247	Effect of ferroelastic twin walls on local polarization switching: Phase-field modeling. <i>Applied Physics Letters</i> , 2008 , 93, 162901	3.4	28
246	Domain stability of PbTiO ₃ thin films under anisotropic misfit strains: Phase-field simulations. <i>Journal of Applied Physics</i> , 2008 , 104, 054105	2.5	34
245	Computer simulation of ferroelectric domain structures in epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2008 , 103, 094111	2.5	64
244	Influence of interfacial dislocations on hysteresis loops of ferroelectric films. <i>Journal of Applied Physics</i> , 2008 , 104, 104110	2.5	38
243	Structural and optical properties of ZnO thin films by rf magnetron sputtering with rapid thermal annealing. <i>Applied Physics Letters</i> , 2008 , 92, 141911	3.4	36
242	X-ray determination of mosaic structure in variable thickness EuBa ₂ Cu ₃ O _{7-δ} thin films. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012214	0.3	1
241	Composite carbon nanotube/silica fibers with improved mechanical strengths and electrical conductivities. <i>Small</i> , 2008 , 4, 1964-7	11	67
240	Mixed-Valence Perovskite Thin Films by Polymer-Assisted Deposition. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1858-1863	3.8	19
239	Topical Issue on Perovskites. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1747-1747	3.8	
238	Structural and ferromagnetic properties of epitaxial SrRuO ₃ thin films obtained by polymer-assisted deposition. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 7497-500	3.4	22
237	Tailoring Conducting Polymer Chemistry for the Chemical Deposition of Metal Particles and Clusters. <i>Chemistry of Materials</i> , 2007 , 19, 520-525	9.6	74
236	Role of quantum fluctuations in the vortex solid to vortex liquid transition of type-II superconductors. <i>Physical Review B</i> , 2007 , 76,	3.3	10
235	Temperature-dependent leakage mechanisms of PtBiFeO ₃ /SrRuO ₃ thin film capacitors. <i>Applied Physics Letters</i> , 2007 , 91, 072911	3.4	159
234	Materials science challenges for high-temperature superconducting wire. <i>Nature Materials</i> , 2007 , 6, 631-47	4.7	596
233	Two dimensional dynamic focusing of laser light by ferroelectric domain based electro-optic lenses. <i>Applied Physics Letters</i> , 2007 , 90, 201106	3.4	6
232	Correlation between cation disorder and flux pinning in the YBa ₂ Cu ₃ O ₇ coated conductor. <i>Journal of Applied Physics</i> , 2007 , 102, 113909	2.5	20
231	Effective thickness and dielectric constant of interfacial layers of PtBi _{3.15} Nd _{0.85} Ti ₃ O ₁₂ /SrRuO ₃ capacitors. <i>Applied Physics Letters</i> , 2007 , 90, 232909	3.4	16
230	Interfacial coherency and ferroelectricity of BaTiO ₃ /SrTiO ₃ superlattice films. <i>Applied Physics Letters</i> , 2007 , 91, 252904	3.4	45

229	High tunability of lead strontium titanate thin films using a conductive LaNiO ₃ as electrodes. <i>Applied Physics Letters</i> , 2007 , 91, 072908	3-4	20
228	Data retention characteristics of Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ thin films on conductive SrRuO ₃ electrodes. <i>Applied Physics Letters</i> , 2007 , 91, 142901	3-4	7
227	Phase-field model for epitaxial ferroelectric and magnetic nanocomposite thin films. <i>Applied Physics Letters</i> , 2007 , 90, 052909	3-4	74
226	Critical current of grain boundaries in YBa ₂ Cu ₃ O _x bicrystal films as a function of oxygen concentration. <i>Physical Review B</i> , 2007 , 76,	3-3	1
225	Influence of growth temperature on critical current and magnetic flux pinning structures in YBa ₂ Cu ₃ O _{7-δ} . <i>Applied Physics Letters</i> , 2007 , 91, 162501	3-4	44
224	Prediction of ferroelectricity in BaTiO ₃ /BrTiO ₃ superlattices with domains. <i>Applied Physics Letters</i> , 2007 , 91, 112914	3-4	66
223	Self-assembled epitaxial nanocomposite BaTiO ₃ -NiFe ₂ O ₄ films prepared by polymer-assisted deposition. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14132-3	16.4	50
222	High Critical Current YBCO Films Prepared by an MOD Process on RABiTS Templates. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 3553-3556	1.8	28
221	$\text{YBa}_2\text{Cu}_3\text{O}_7$ Coated Conductor Grown by Hybrid Liquid Phase Epitaxy. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 2537-2541	1.8	5
220	Microstructural Evolution With the Change in Thickness of Superconducting Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 3243-3246	1.8	14
219	Guidelines for optimizing random and correlated pinning in rare-earth-based superconducting films. <i>Superconductor Science and Technology</i> , 2006 , 19, S55-S59	3-1	17
218	Multiferroic domain dynamics in strained strontium titanate. <i>Physical Review Letters</i> , 2006 , 97, 257602	7-4	74
217	Magnetoresistance in polymer-assisted deposited Sr- and Ca-doped lanthanum manganite films. <i>Applied Physics Letters</i> , 2006 , 88, 232510	3-4	30
216	H-induced platelet and crack formation in hydrogenated epitaxial Si ₃ Bi _{0.98} B _{0.02} Bi structures. <i>Applied Physics Letters</i> , 2006 , 88, 021901	3-4	13
215	Dielectric properties of <001>-oriented Ba _{0.6} Sr _{0.4} TiO ₃ thin films on polycrystalline metal tapes using biaxially oriented MgO/Al ₂ O ₃ buffer layers. <i>Applied Physics Letters</i> , 2006 , 88, 062907	3-4	19
214	Phase transitions and domain structures in strained pseudocubic (100) SrTiO ₃ thin films. <i>Physical Review B</i> , 2006 , 73,	3-3	133
213	Structural evidence for enhanced polarization in a commensurate short-period BaTiO ₃ /BrTiO ₃ superlattice. <i>Applied Physics Letters</i> , 2006 , 89, 092905	3-4	78
212	Effect of conductive LaNiO ₃ electrode on the structural and ferroelectric properties of Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ films. <i>Applied Physics Letters</i> , 2006 , 89, 242903	3-4	17

211	Microstructure and transport properties of Y-rich YBa ₂ Cu ₃ O _{7-δ} thin films. <i>Journal of Applied Physics</i> , 2006 , 100, 053904	2.5	28
210	Low field magnetotransport properties of (La _{0.7} Sr _{0.3} MnO ₃) _{0.5} :(ZnO) _{0.5} nanocomposite films. <i>Applied Physics Letters</i> , 2006 , 88, 192514	3.4	60
209	Structure and optical properties of Lu ₂ SiO ₅ :Ce phosphor thin films. <i>Applied Physics Letters</i> , 2006 , 89, 101905	3.4	26
208	Fe(001) thin films for x-ray diffraction and terahertz emission studies. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 1509-1513	2.9	
207	Conformal coating of nanoscale features of microporous Anodisc membranes with zirconium and titanium oxides. <i>Chemical Communications</i> , 2006 , 847-9	5.8	10
206	Probing nanoscale ferroelectricity by ultraviolet Raman spectroscopy. <i>Science</i> , 2006 , 313, 1614-6	33.3	272
205	Role of strain in the blistering of hydrogen-implanted silicon. <i>Applied Physics Letters</i> , 2006 , 89, 101901	3.4	18
204	Overcoming the barrier to 1000Åm width superconducting coatings. <i>Applied Physics Letters</i> , 2005 , 87, 162505	3.4	167
203	Plasma hydrogenation of strained Si _{1-x} Ge _x heterostructure for layer transfer without ion implantation. <i>Applied Physics Letters</i> , 2005 , 87, 091902	3.4	34
202	The effect of growth rates on the microstructures of EuBa ₂ Cu ₃ O _{7-δ} films on SrTiO ₃ substrates. <i>Applied Physics Letters</i> , 2005 , 86, 192508	3.4	3
201	Coherent optical and acoustic phonon generation correlated with the charge-ordering phase transition in La _{1-x} CaxMnO ₃ . <i>Physical Review B</i> , 2005 , 71,	3.3	36
200	High-resolution x-ray diffraction and transmission electron microscopy of multiferroic BiFeO ₃ films. <i>Applied Physics Letters</i> , 2005 , 86, 071913	3.4	97
199	Rare earth ion size effects and enhanced critical current densities in Y ₂ Sm _{1-x} Ba ₂ Cu ₃ O _{7-δ} coated conductors. <i>Applied Physics Letters</i> , 2005 , 86, 032505	3.4	58
198	Novel dielectric anomaly in the hole-doped La ₂ Cu _{1-x} Li _x O ₄ and La _{2-x} Sr _x NiO ₄ insulators: signature of an electronic glassy state. <i>Physical Review Letters</i> , 2005 , 94, 017002	7.4	87
197	Ferromagnetic properties of epitaxial SrRuO ₃ films on SiO ₂ /Si using biaxially oriented MgO as templates. <i>Applied Physics Letters</i> , 2005 , 86, 072511	3.4	5
196	Well-Oriented Silicon Thin Films with High Carrier Mobility on Polycrystalline Substrates. <i>Advanced Materials</i> , 2005 , 17, 1527-1531	24	71
195	Polymer Assisted Deposition (PAD) of thin metal films: A new technique to the preparation of metal oxides and reduced metal films. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 893, 1		1
194	Strain-facilitated process for the lift-off of a Si layer of less than 20 nm thickness. <i>Applied Physics Letters</i> , 2005 , 87, 251907	3.4	9

193	Epitaxial nature and anisotropic dielectric properties of (Pb,Sr)TiO ₃ thin films on NdGaO ₃ substrates. <i>Applied Physics Letters</i> , 2005 , 86, 142902	3-4	35
192	Effects of Eu interfacial mobility on the growth of epitaxial EuBa ₂ Cu ₃ O ₇ films. <i>Applied Physics Letters</i> , 2005 , 86, 101912	3-4	
191	High critical current densities in YBa ₂ Cu ₃ O ₇ films grown at high rates by hybrid liquid phase epitaxy. <i>Applied Physics Letters</i> , 2005 , 87, 252507	3-4	14
190	Comparative study of microstructural properties for YBa ₂ Cu ₃ O ₇ films on single-crystal and Ni-based metal substrates. <i>Journal of Materials Research</i> , 2005 , 20, 2055-2060	2-5	6
189	Effects of chemical composition on the optical properties of Zn _{1-x} Cd _x O thin films. <i>Applied Physics Letters</i> , 2004 , 85, 218-220	3-4	49
188	Effect of crystallinity on the transport properties of Nd _{0.67} Sr _{0.33} MnO ₃ thin films. <i>Applied Physics Letters</i> , 2004 , 84, 1147-1149	3-4	20
187	Hydrogen-induced degradation in epitaxial and polycrystalline (Ba,Sr)TiO ₃ thin films. <i>Applied Physics Letters</i> , 2004 , 84, 3825-3827	3-4	23
186	Epitaxial growth of Eu ₂ O ₃ thin films on LaAlO ₃ substrates by polymer-assisted deposition. <i>Applied Physics Letters</i> , 2004 , 85, 3426-3428	3-4	34
185	Anisotropic in-plane strains and dielectric properties in (Pb,Sr)TiO ₃ thin films on NdGaO ₃ substrates. <i>Applied Physics Letters</i> , 2004 , 84, 577-579	3-4	64
184	Dielectric properties of epitaxial Ba _{0.6} Sr _{0.4} TiO ₃ films on SiO ₂ /Si using biaxially oriented ion-beam-assisted-deposited MgO as templates. <i>Applied Physics Letters</i> , 2004 , 85, 4702-4704	3-4	16
183	Structural and dielectric properties of epitaxial Ba _{1-x} Sr _x TiO ₃ films grown on LaAlO ₃ substrates by polymer-assisted deposition. <i>Applied Physics Letters</i> , 2004 , 85, 5007-5009	3-4	60
182	Microstructure of SrTiO ₃ buffer layers and its effects on superconducting properties of YBa ₂ Cu ₃ O ₇ -x coated conductors. <i>Journal of Materials Research</i> , 2004 , 19, 1869-1875	2-5	37
181	Work function of the mixed-valent manganese perovskites. <i>Journal of Applied Physics</i> , 2004 , 95, 7971-7975	3-5	59
180	Effect of Low-Energy Accelerated Ion Bombardment on the Properties of Metal-Organic Decomposition Derived SrBi ₂ (Ta,Nb) ₂ O ₉ Thin Films Processed at Low Temperature. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 720-723	3-8	4
179	Strongly enhanced current densities in superconducting coated conductors of YBa ₂ Cu ₃ O _{7-x} + BaZrO ₃ . <i>Nature Materials</i> , 2004 , 3, 439-43	27	1034
178	Polymer-assisted deposition of metal-oxide films. <i>Nature Materials</i> , 2004 , 3, 529-32	27	283
177	Ultralong single-wall carbon nanotubes. <i>Nature Materials</i> , 2004 , 3, 673-6	27	441
176	Understanding High Critical Currents in YBa ₂ Cu ₃ O ₇ Thin Films and Coated Conductors. <i>Journal of Low Temperature Physics</i> , 2004 , 135, 87-98	1-3	81

175	Epitaxial growth of BiFeO ₃ thin films by LPE and sol-gel methods. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 283, 415-421	2.8	41
174	Anisotropic dielectric properties in epitaxial Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ thin films along different crystal directions. <i>Applied Physics Letters</i> , 2004 , 85, 2586-2588	3.4	11
173	Angular-dependent vortex pinning mechanisms in YBa ₂ Cu ₃ O ₇ coated conductors and thin films. <i>Applied Physics Letters</i> , 2004 , 84, 2121-2123	3.4	246
172	Systematic enhancement of in-field critical current density with rare-earth ion size variance in superconducting rare-earth barium cuprate films. <i>Applied Physics Letters</i> , 2004 , 84, 5329-5331	3.4	117
171	Formation of pile networks by long carbon nanotubes from decomposition of CO on Co-Mo film. <i>Journal of Nanoscience and Nanotechnology</i> , 2004 , 4, 189-91	1.3	
170	Relationship Between Catalyst Composition and Carbon Morphology. <i>Microscopy and Microanalysis</i> , 2003 , 9, 328-329	0.5	
169	Modulation of Energy Band Gap of ZnO Thin Films Grown by Pulsed Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 764, 1		
168	Strongly coupled critical current density values achieved in Y ₁ Ba ₂ Cu ₃ O ₇ -coated conductors with near-single-crystal texture. <i>Applied Physics Letters</i> , 2003 , 82, 4519-4521	3.4	109
167	Effect of catalyst composition on carbon nanotube growth. <i>Applied Physics Letters</i> , 2003 , 82, 2694-2696	3.4	73
166	Lateral Epitaxial Growth of Ba _{0.6} Sr _{0.4} TiO ₃ Thin Films. <i>Integrated Ferroelectrics</i> , 2003 , 55, 933-938	0.8	
165	Lateral epitaxial growth of (Ba,Sr)TiO ₃ thin films. <i>Applied Physics Letters</i> , 2003 , 83, 5494-5496	3.4	15
164	The role of a superconducting seed layer in the structural and transport properties of EuBa ₂ Cu ₃ O ₇ films. <i>Applied Physics Letters</i> , 2003 , 83, 1388-1390	3.4	35
163	Flux pinning enhancement in ferromagnetic and superconducting thin-film multilayers. <i>Applied Physics Letters</i> , 2003 , 82, 778-780	3.4	63
162	Microstructural Properties of Ba _{0.6} Sr _{0.4} TiO ₃ /RuO ₂ Multi-Layers Grown on MgO and YSZ by Pulsed-Laser Deposition. <i>Integrated Ferroelectrics</i> , 2003 , 55, 965-972	0.8	
161	Recent progress in continuously processed IBAD MgO template meters for HTS applications. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 382, 43-47	1.3	34
160	Monolithic Integration of Superconducting YBCO and Dielectric SrTiO ₃ Films on Polycrystalline Ferrites. <i>Integrated Ferroelectrics</i> , 2002 , 42, 71-78	0.8	
159	Dielectric nonlinearity and stochastic effects in strontium titanate. <i>Applied Physics Letters</i> , 2002 , 80, 3391-3393	3.4	13
158	Role of atomic arrangements at interfaces on the phase control of epitaxial TiO ₂ films. <i>Applied Physics Letters</i> , 2002 , 80, 1174-1176	3.4	26

157	Role of SrRuO ₃ buffer layers on the superconducting properties of YBa ₂ Cu ₃ O ₇ films grown on polycrystalline metal alloy using a biaxially oriented MgO template. <i>Applied Physics Letters</i> , 2002 , 81, 4571-4573	3.4	38
156	Enhanced Dielectric Properties of (Ba,Sr)TiO ₃ Thin Films Applicable to Tunable Microwave Devices. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 7222-7225	1.4	13
155	In vacuo Pulsed Laser Ablation of YBa ₂ Cu ₃ O ₇ Target for the Formation of Y ₂ O ₃ Nanostructures. <i>Journal of Materials Research</i> , 2002 , 17, 697-700	2.5	3
154	Characterization of superconducting SmBa ₂ Cu ₃ O ₇ films grown by pulsed laser deposition. <i>Journal of Materials Research</i> , 2002 , 17, 2599-2603	2.5	16
153	Imaging transport current distribution in high temperature superconductors using room temperature scanning laser microscope. <i>Review of Scientific Instruments</i> , 2002 , 73, 3692-3694	1.7	10
152	Conductive metal oxide thin films 2002 , 677-698		2
151	High-temperature superconducting thick films with enhanced supercurrent carrying capability. <i>Applied Physics Letters</i> , 2002 , 80, 1601-1603	3.4	83
150	Effects of Organic Self-assembled Polymer and Metal Phthalocyanine Multilayers on the Surface Photovoltaic Properties of Indium Tin Oxide and Titanium Oxide. <i>Chemistry of Materials</i> , 2002 , 14, 1159-1165	2.6	32
149	High-resolution transmission electron microscopy study of defects and interfaces in epitaxial TiO ₂ films on sapphire and LaAlO ₃ . <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002 , 82, 735-749		13
148	Dielectric response and structural properties of TiO ₂ -doped Ba _{0.6} Sr _{0.4} TiO ₃ films. <i>Applied Physics Letters</i> , 2002 , 81, 114-116	3.4	27
147	Microstructure of heteroepitaxially grown RuO ₂ thin films on MgO by pulsed-laser deposition. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001 , 81, 141-149		1
146	High critical current density YBa ₂ Cu ₃ O ₇ thick films using ion beam assisted deposition MgO bi-axially oriented template layers on nickel-based superalloy substrates. <i>Journal of Materials Research</i> , 2001 , 16, 2175-2178	2.5	34
145	Photovoltaic response and dielectric properties of epitaxial anatase-TiO ₂ films grown on conductive La _{0.5} Sr _{0.5} CoO ₃ electrodes. <i>Applied Physics Letters</i> , 2001 , 79, 2797-2799	3.4	36
144	Effects of very thin strain layers on dielectric properties of epitaxial Ba _{0.6} Sr _{0.4} TiO ₃ films. <i>Applied Physics Letters</i> , 2001 , 78, 533-535	3.4	149
143	Large-angle electro-optic laser scanner on LiTaO ₃ fabricated by in situ monitoring of ferroelectric-domain micropatterning. <i>Applied Optics</i> , 2001 , 40, 6236-41	1.7	42
142	A comparison of buffer layer architectures on continuously processed YBCO coated conductors based on the IBAD YSZ process. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 3359-3364	1.8	32
141	Dielectric properties of Ba _{0.6} Sr _{0.4} TiO ₃ thin films with various strain states. <i>Integrated Ferroelectrics</i> , 2001 , 39, 271-280	0.8	
140	Structure, processing, and property relationships in tunable rf and microwave devices. <i>Integrated Ferroelectrics</i> , 2001 , 39, 261-270	0.8	3

139	Ion-beam Assisted Deposition of MgO with in situ RHEED Monitoring to Control Bi-axial Texture. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 666, 1061		5
138	Integration of Biaxially Aligned Conducting Oxides with Silicon using Ion-Beam Assisted Deposited MgO Templates. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 666, 721		
137	Improved superconducting properties of SmBa ₂ Cu ₃ O ₇ films using YBa ₂ Cu ₃ O ₇ buffer layers. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000 , 80, 45-51		11
136	High nonlinearity of Ba _{0.6} Sr _{0.4} TiO ₃ films heteroepitaxially grown on MgO substrates. <i>Applied Physics Letters</i> , 2000 , 77, 2587-2589	3.4	101
135	Microstructure of epitaxial La _{0.7} Ca _{0.3} MnO ₃ thin films grown on LaAlO ₃ and SrTiO ₃ . <i>Journal of Applied Physics</i> , 2000 , 88, 4032	2.5	89
134	Ferroelectric domain reversal in congruent LiTaO ₃ crystals at elevated temperatures. <i>Applied Physics Letters</i> , 2000 , 76, 2436-2438	3.4	19
133	Microstructure and dielectric properties of Ba _{1-x} Sr _x TiO ₃ films grown on LaAlO ₃ substrates. <i>Applied Physics Letters</i> , 2000 , 77, 1200-1202	3.4	143
132	The microstructure of continuously processed Yba ₂ Cu ₃ O _y coated conductors with underlying CeO ₂ and ion-beam-assisted yttria-stabilized zirconia buffer layers. <i>Journal of Materials Research</i> , 2000 , 15, 1110-1119	2.5	58
131	Dynamic time expansion and compression using nonlinear waveguides. <i>Applied Physics Letters</i> , 2000 , 77, 3645-3647	3.4	1
130	High quality Ba _x Sr _{1-x} TiO ₃ films grown by molcd and novel ferroelectric/ferrite structures for dual-tuning microwave devices. <i>Integrated Ferroelectrics</i> , 2000 , 28, 63-79	0.8	4
129	Electrodynamics properties of single-crystal and thin-film strontium titanate. <i>Integrated Ferroelectrics</i> , 2000 , 28, 193-200	0.8	
128	High Temperature Superconducting Quantum Interference Devices in a Superconductor-Normal-Superconductor Geometry 2000 , 99-102		1
127	Speeding up Film Deposition Rate: Its Effects on Microstructures of YBa ₂ Cu ₃ O _y Superconducting Thick Films. <i>Journal of Materials Research</i> , 1999 , 14, 1204-1211	2.5	12
126	Epitaxial growth and structural properties of conductive RuO ₂ thin films. <i>Integrated Ferroelectrics</i> , 1999 , 26, 137-151	0.8	1
125	Structural properties of Ba _{0.6} Sr _{0.4} TiO ₃ thin films on epitaxial RuO ₂ electrodes. <i>Integrated Ferroelectrics</i> , 1999 , 24, 57-63	0.8	3
124	Growth of LiNbO ₃ films on single crystal sapphire substrates using pulsed laser deposition. <i>Integrated Ferroelectrics</i> , 1999 , 25, 91-102	0.8	
123	Pulse shaping using nonlinear dielectric SrTiO ₃ . <i>Applied Physics Letters</i> , 1999 , 74, 1770-1772	3.4	5
122	Growth and characterization of Ba _{0.6} Sr _{0.4} TiO ₃ thin films on Si with Pt electrodes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999 , 17, 2148-2150	2.9	5

121	Electrodynamics properties of coplanar waveguides made from high-temperature superconducting YBa ₂ Cu ₃ O _{7-δ} electrodes on nonlinear dielectric SrTiO ₃ substrates. <i>Journal of Applied Physics</i> , 1999 , 86, 1558-1568	2.5	13
120	In situ video observation of 180° domain kinetics in congruent LiNbO ₃ crystals. <i>Applied Physics Letters</i> , 1999 , 75, 2482-2484	3.4	68
119	High-T/sub c/ coated conductors-performance of meter-long YBCO/IBAD flexible tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 1519-1522	1.8	139
118	Ferroelectric domain kinetics in congruent LiTaO ₃ . <i>Integrated Ferroelectrics</i> , 1999 , 27, 137-146	0.8	
117	Effect of tolerance factor and local distortion on magnetic properties of the perovskite manganites. <i>Applied Physics Letters</i> , 1999 , 75, 1146-1148	3.4	56
116	Integration of nonlinear dielectric barium strontium titanate with polycrystalline yttrium iron garnet. <i>Applied Physics Letters</i> , 1999 , 74, 1564-1566	3.4	53
115	Mobility of 180° domain walls in congruent LiTaO ₃ measured using real-time electro-optic imaging microscopy. <i>Journal of Applied Physics</i> , 1999 , 86, 1638-1646	2.5	26
114	Comparative study of broadband electrodynamic properties of single-crystal and thin-film strontium titanate. <i>Applied Physics Letters</i> , 1999 , 75, 4189-4191	3.4	2
113	Integration of electro-optic lenses and scanners on ferroelectric LiTaO ₃ . <i>Integrated Ferroelectrics</i> , 1999 , 25, 31-36	0.8	2
112	Relationship between film thickness and the critical current of YBa ₂ Cu ₃ O _{7-δ} coated conductors. <i>Applied Physics Letters</i> , 1999 , 75, 3692-3694	3.4	200
111	Spectral Evolution in (Ca,Sr)RuO ₃ near the Mott-Hubbard Transition. <i>Physical Review Letters</i> , 1999 , 82, 5321-5324	7.4	67
110	Integrated electro-optic lens/scanner in a LiTaO ₃ single crystal. <i>Applied Optics</i> , 1999 , 38, 1186-90	1.7	49
109	Low Loss Ferroelectric Films Grown on Polycrystalline Ferrite Substrates for Dual-Tuning Microwave Devices. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 574, 311		1
108	Fabrication of High-Quality Ion-Beam Deposited Cubic Oxide Template Films on Meter-Length Substrates. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 585, 67		3
107	Electrodynamics Properties of Single-Crystal and Thin-Film Strontium Titanate, and Thin-Film Barium Strontium Titanate. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 603, 27		1
106	RF-Magnetron Sputtered Strontium Titanate: Structure, Processing and Property Relationships. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 603, 57		2
105	Dielectric Properties of Ba _{1-x} Sr _x TiO ₃ Films Grown on LaAlO ₃ Substrates. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 603, 175		3
104	Microstructural characteristics of conductive SrRuO ₃ thin films formed by pulsed-laser deposition. <i>Journal of Materials Research</i> , 1998 , 13, 2302-2307	2.5	27

103	Conduction properties of metal/organic monolayer/semiconductor heterostructures. <i>Applied Physics Letters</i> , 1998 , 73, 2645-2647	3.4	24
102	New potential applications of nonlinear dielectrics: Microwave solitons and stochastic resonance. <i>Integrated Ferroelectrics</i> , 1998 , 22, 259-268	0.8	12
101	Large magnetoresistance in La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ /La _{0.7} Sr _{0.3} MnO ₃ ramp-edge junctions. <i>Applied Physics Letters</i> , 1998 , 72, 486-488	3.4	63
100	Role of Yttria-stabilized Zirconia Produced by Ion-beam-assisted Deposition on the Properties of RuO ₂ on SiO ₂ /Si. <i>Journal of Materials Research</i> , 1998 , 13, 2461-2464	2.5	2
99	Observation of spin-dependent transport and large magnetoresistance in La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ /La _{0.7} Sr _{0.3} MnO ₃ ramp-edge junctions. <i>Journal of Applied Physics</i> , 1998 , 83, 7052-7054 ²²	2.5	22
98	Directly coupled direct current superconducting quantum interference device magnetometers based on ramp-edge Ag:YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O _{7-x} /Ag:YBa ₂ Cu ₃ O _{7-x} junctions. <i>Applied Physics Letters</i> , 1998 , 72, 3068-3070	3.4	7
97	Control of epitaxial growth for SrBi ₂ Ta ₂ O ₉ thin films. <i>Applied Physics Letters</i> , 1998 , 72, 665-667	3.4	33
96	Superconducting YBa ₂ Cu ₃ O _{7-x} thin films on polycrystalline ferrite for magnetically tunable microwave components. <i>Applied Physics Letters</i> , 1998 , 72, 1763-1765	3.4	15
95	Biaxially oriented conductive La _{0.5} Sr _{0.5} CoO ₃ thin films on SiO ₂ /Si. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998 , 16, 1380-1383	2.9	6
94	Heteroepitaxial growth of RuO ₂ thin films on Al ₂ O ₃ substrates with CeO ₂ buffer layers by pulsed laser deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998 , 16, 2725-2727	2.9	2
93	Effect of in-plane epitaxy on magnetotransport properties of (La _{0.5} Sr _{0.5})CoO ₃ thin films. <i>Applied Physics Letters</i> , 1998 , 73, 695-697	3.4	16
92	Improvement in performance of electrically tunable devices based on nonlinear dielectric SrTiO ₃ using a homoepitaxial LaAlO ₃ interlayer. <i>Applied Physics Letters</i> , 1998 , 73, 897-899	3.4	55
91	Improved N-layer materials for high-T _c superconductor/normal-metal/superconductor junctions and superconducting quantum interference device sensors. <i>Applied Physics Letters</i> , 1998 , 72, 848-850	3.4	7
90	Oriented conductive oxide electrodes on SiO ₂ /Si. <i>Integrated Ferroelectrics</i> , 1998 , 21, 397-406	0.8	
89	Characteristics of BaTiO ₃ thin films on Si deposited by rf magnetron sputtering. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998 , 77, 163-175		9
88	Structural and dielectric properties of Ba _{0.5} Sr _{0.5} TiO ₃ thin films with an epi-RuO ₂ bottom electrode. <i>Integrated Ferroelectrics</i> , 1998 , 19, 111-119	0.8	3
87	Ferroelectrics as a versatile solid state platform for integrated optics. <i>Integrated Ferroelectrics</i> , 1998 , 22, 465-471	0.8	4
86	Real-time study of kinetics of 180° domains in congruent LiTaO ₃ under an external field. <i>Integrated Ferroelectrics</i> , 1998 , 22, 405-409	0.8	2

85	Epitaxial and Conductive RuO ₂ Thin Films Grown on MgO and LaAlO ₃ by MOCVD. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 541, 147		
84	Pulsed laser deposition of conductive SrRuO ₃ thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997 , 15, 1080-1083	2.9	17
83	Imaging nanometer-thick patterned self-assembled monolayers via second-harmonic generation microscopy. <i>Journal of Applied Physics</i> , 1997 , 81, 2051-2054	2.5	22
82	A high-temperature superconducting receiver for low-frequency radio waves. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 3845-3849	1.8	10
81	Power-dependent microwave properties of superconducting YBa ₂ Cu ₃ O _{7-x} films on buffered polycrystalline substrates. <i>Applied Physics Letters</i> , 1997 , 70, 3293-3295	3.4	14
80	Influence of deposition rate on the properties of thick YBa ₂ Cu ₃ O _{7-x} films. <i>Journal of Materials Research</i> , 1997 , 12, 2941-2946	2.5	54
79	Development of a reliable materials base for superconducting electronics. <i>Journal of Materials Research</i> , 1997 , 12, 2958-2975	2.5	21
78	Microstructure of Ba _{0.5} Sr _{0.5} TiO ₃ thin films on (100) LaAlO ₃ with SrRuO ₃ as electrodes. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997 , 75, 261-269		8
77	Observation of Large Low Field Magnetoresistance in Ramp-Edge Tunneling Junctions Based on Doped Manganite Ferromagnetic Electrodes and A SrTiO ₃ Insulator. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 494, 237		
76	Noise and Operational Characteristics of Magnetometers Made from Superconducting-Normal-Superconducting Josephson Junctions. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 474, 113		2
75	Interplay Between Electronic Transport and Magnetic Order in Ferromagnetic Manganite Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 474, 167		2
74	Paraelectric thin films for microwave applications. <i>Integrated Ferroelectrics</i> , 1997 , 15, 163-171	0.8	9
73	Stability of dc superconducting quantum interference devices fabricated using ramp-edge superconductor/normal-metal/superconductor technology. <i>Applied Physics Letters</i> , 1997 , 71, 1721-1723	3.4	3
72	Structural characterization of Ba _{0.5} Sr _{0.5} TiO ₃ on RuO ₂ prepared by pulsed laser deposition. <i>Integrated Ferroelectrics</i> , 1997 , 14, 167-172	0.8	2
71	High-temperature superconductor edge-geometry SNS junctions with engineered normal-metal layers. <i>Superconductor Science and Technology</i> , 1996 , 9, 985-990	3.1	2
70	Tunable and adaptive bandpass filter using a nonlinear dielectric thin film of SrTiO ₃ . <i>Applied Physics Letters</i> , 1996 , 68, 1651-1653	3.4	86
69	Role of substrates for heteroepitaxial growth of low room-temperature resistivity RuO ₂ thin films deposited by pulsed laser deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996 , 14, 1107-1110	2.9	14
68	STM and X-Ray Diffraction Temperature-Dependent Growth Study of SrRuO ₃ PLD Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 441, 57		

67	Synthesis of low resistivity complex oxides on MgO using Pt as buffer layer. <i>Journal of Electronic Materials</i> , 1996 , 25, 51-55	1.9	1
66	Study of high-quality epitaxial YBCO thin films grown directly on Y-Cut LiNbO ₃ . <i>Journal of Electronic Materials</i> , 1996 , 25, 131-135	1.9	4
65	Microstructures and electrical properties of SrRuO ₃ thin films on LaAlO ₃ substrates. <i>Journal of Electronic Materials</i> , 1996 , 25, 1754-1759	1.9	13
64	Characteristics of conductive SrRuO ₃ thin films with different microstructures. <i>Journal of Materials Research</i> , 1996 , 11, 2263-2268	2.5	41
63	Bose glass vortex phase transition in twinned YBa ₂ Cu ₃ O ₇ superconductors. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1996 , 74, 647-654		19
62	Microwave surface resistance of YBa ₂ Cu ₃ O ₇ films on polycrystalline ceramic substrates with textured buffer layers. <i>Applied Physics Letters</i> , 1996 , 69, 1626-1628	3.4	9
61	Transport and magnetism correlations in thin-film ferromagnetic oxides. <i>Journal of Applied Physics</i> , 1996 , 79, 4535	2.5	35
60	Epitaxial growth of highly conductive RuO ₂ thin films on (100) Si. <i>Applied Physics Letters</i> , 1996 , 68, 1069-1071	3.4	60
59	Magnetotransport properties of SrRuO ₃ epitaxial thin films on (100) LaAlO ₃ : Presence of localized magnetic moments. <i>Physical Review B</i> , 1996 , 54, 37-40	3.3	32
58	Proton Insertion into Ruthenium Oxide Film Prepared by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 1068-1070	3.9	30
57	Electrical characteristics of coplanar waveguide devices incorporating nonlinear dielectric thin films of SrTiO ₃ and Sr _{0.5} Ba _{0.5} TiO ₃ . <i>Microwave and Optical Technology Letters</i> , 1995 , 9, 306-310	1.2	31
56	Development of high temperature superconducting Josephson junctions and quantum interference devices using low deposition temperature YBa ₂ Cu ₃ O ₇ barriers. <i>Applied Physics Letters</i> , 1995 , 66, 2280-2282	3.4	10
55	Superconductor GdBa ₂ Cu ₃ O ₇ edge junctions with lattice-matched Y _{0.6} Pr _{0.4} Ba ₂ Cu ₃ O ₇ barriers. <i>Journal of Applied Physics</i> , 1995 , 78, 2871-2873	2.5	3
54	Heteroepitaxial growth of highly conductive metal oxide RuO ₂ thin films by pulsed laser deposition. <i>Applied Physics Letters</i> , 1995 , 67, 1677-1679	3.4	34
53	Structural and electrical properties of Ba _{0.5} Sr _{0.5} TiO ₃ thin films with conductive SrRuO ₃ bottom electrodes. <i>Applied Physics Letters</i> , 1995 , 66, 2197-2199	3.4	133
52	Deposition and characterization of crystalline conductive RuO ₂ thin films. <i>Journal of Materials Research</i> , 1995 , 10, 2401-2403	2.5	18
51	Nanolayer BaTiO ₃ thin film capacitors using magnetron sputtering. <i>Ferroelectrics</i> , 1995 , 166, 111-117	0.6	6
50	Analytical solution for solar cell model parameters from illuminated current-voltage characteristics. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995 , 72, 375-382		14

49	Characterization of Ba _{0.5} Sr _{0.5} TiO ₃ thin film capacitors produced by pulsed laser deposition. <i>Integrated Ferroelectrics</i> , 1995 , 10, 73-79	0.8	9
48	Deposition of epitaxial yttria-stabilized zirconia on single-crystal Si and subsequent growth of an amorphous SiO ₂ interlayer. <i>Philosophical Magazine Letters</i> , 1995 , 72, 385-391	1	15
47	High-quality epitaxial YBCO thin films directly on LiNbO ₃ . <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995 , 71, 903-912		
46	Stable thin film resistors using double layer structure. <i>Journal of Materials Research</i> , 1995 , 10, 1523-1528	2.5	9
45	Electrically tunable coplanar transmission line resonators using YBa ₂ Cu ₃ O _{7-x} /SrTiO ₃ bilayers. <i>Applied Physics Letters</i> , 1995 , 66, 3674-3676	3.4	85
44	Transport-magnetism correlations in the ferromagnetic oxide La _{0.7} Ca _{0.3} MnO ₃ . <i>Applied Physics Letters</i> , 1995 , 67, 860-862	3.4	297
43	. <i>IEEE Transactions on Applied Superconductivity</i> , 1995 , 5, 1541-1544	1.8	
42	Nonlinear Dielectric Thin Films For Active and Electrically Tunable Microwave Devices. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 401, 303		2
41	Observation of different polarity of charges in metal-ferroelectric-semiconductor structures. <i>Ferroelectrics</i> , 1994 , 160, 1-7	0.6	1
40	High-temperature superconductor Josephson junctions with a gradient Pr-doped Y _{1-x} Pr _x Ba ₂ Cu ₃ O ₇ (x=0.1, 0.3, 0.5) as barriers. <i>Applied Physics Letters</i> , 1994 , 65, 2866-2868	3.4	16
39	Metal/TaN (8 nm)/Si diode fabricated by DC magnetron sputtering. <i>Applied Physics A: Solids and Surfaces</i> , 1994 , 58, 487-491		5
38	Effect of barrier layers on BaTiO ₃ thin film capacitors on Si substrates. <i>Journal of Electronic Materials</i> , 1994 , 23, 53-56	1.9	8
37	Interactions between ferroelectric BaTiO ₃ and Si. <i>Journal of Electronic Materials</i> , 1994 , 23, 551-556	1.9	11
36	Synthesis of epitaxial Pt on (100)Si using TiN buffer layer by pulsed laser deposition. <i>Applied Physics Letters</i> , 1994 , 65, 2693-2695	3.4	11
35	Surface and interface properties of ferroelectric BaTiO ₃ thin films on Si using RuO ₂ as an electrode. <i>Journal of Materials Research</i> , 1994 , 9, 2561-2565	2.5	34
34	On the nature of zero temperature coefficient of resistance of RuO ₂ thin film resistor formation using in situ annealing. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993 , 11, 1052-1055	2.9	1
33	Development and fabrication of thin-film BaTiO ₃ capacitors using radio-frequency magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993 , 11, 1411-1413	2.9	5
32	Structural and Electrical Properties of BaTiO ₃ Thin Films Grown on p-Si Substrates with Different Device Designs. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 318, 501		1

31	Plasma-Enhanced MOCVD of Superconducting Oxides. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 335, 261		1
30	Growth and Characterization of Epitaxial BaF ₂ on InP. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 281, 747		
29	High temperature superconducting YBa ₂ Cu ₃ O _{7-x} films on metallic substrates grown in situ by off-axis sputtering. <i>Applied Physics Letters</i> , 1992 , 60, 2689-2691	3.4	12
28	Surface and interface properties of superconducting YBa ₂ Cu ₃ O _{7-x} thin films on GaAs using yttrium stabilized ZrO ₂ /Si ₃ N ₄ as a buffer layer. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992 , 10, 1544-1546	2.9	
27	Electrical and dielectric properties of thin film BaTiO ₃ capacitors deposited by radio frequency magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992 , 10, 733-736	2.9	15
26	Electrical Properties of Ferroelectric Thin Film Capacitors with Different Structures. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 284, 523		0
25	Processing of Y ₁ Ba ₂ Cu ₃ O _{7-x} Superconducting Thin Films on GaAs Substrates with Double Buffer Layers. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 235, 855		
24	Processing of Y ₁ Ba ₂ Cu ₃ O _{7-x} Superconducting Thin Films on GaAs Substrates with Double Buffer Layers. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 236, 443		
23	Structural and Electrical Properties of BaTiO ₃ Thin Film Capacitors. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 243, 291		
22	High-Performance barium titanate capacitors with double layer structure. <i>Journal of Electronic Materials</i> , 1991 , 20, 939-944	1.9	16
21	Interactions between superconducting YBa ₂ Cu ₃ O _{7-x} and silicon using different buffer layers. <i>Journal of Applied Physics</i> , 1991 , 70, 3364-3366	2.5	7
20	Role of buffer layers for superconducting YBa ₂ Cu ₃ O _{7-x} thin films on GaAs substrates. <i>Applied Physics Letters</i> , 1991 , 59, 1120-1122	3.4	19
19	In situ laser deposition of superconducting YBa ₂ Cu ₃ O _{7-x} thin films on GaAs substrates. <i>Journal of Applied Physics</i> , 1991 , 70, 7170-7172	2.5	18
18	Effect of thermal treatment on the properties of YBa ₂ Cu ₃ O _{7-x} thin films with multilayer Al/Cr/Yb metals as ohmic contact electrodes. <i>Journal of Electronic Materials</i> , 1990 , 19, 443-447	1.9	
17	Sputter deposition of YBa ₂ Cu ₃ O _{7-x} films on Si at 500 °C with conducting metallic oxide as a buffer layer. <i>Applied Physics Letters</i> , 1990 , 57, 304-306	3.4	62
16	Passivation of superconducting YBa ₂ Cu ₃ O _{7-x} thin films by a wet fluoride vapor method. <i>Journal of Applied Physics</i> , 1990 , 67, 2528-2531	2.5	3
15	Characterization of the Ag/YBa ₂ Cu ₃ O _{7-x} contact in thin films. <i>Journal of Applied Physics</i> , 1990 , 68, 6336-6340	3.4	11
14	Surface Passivation of Y-Ba-Cu-O Oxide Using Chemical Treatment 1990 , 573-579		

13	Characterization of hydrofluoric acid treated YBaCuO oxides. <i>Journal of Materials Research</i> , 1989 , 4, 1320-1325	2.5	3
12	SiO ₂ and Si ₃ N ₄ passivation layers on Y-Ba-Cu-O thin films. <i>Journal of Applied Physics</i> , 1989 , 66, 452-454	2.5	20
11	REPRODUCIBLE TECHNIQUE FOR DEPOSITION OF YBaCuO THIN FILM FROM RF SPUTTERING. <i>International Journal of Modern Physics B</i> , 1989 , 03, 743-749	1.1	5
10	Low resistance contacts to Y-Ba-Cu-O thin films. <i>Journal Physics D: Applied Physics</i> , 1989 , 22, 1565-1567	3	1
9	A novel approach for evaluating the series resistance of solar cells. <i>Solar Cells</i> , 1988 , 25, 311-318		31
8	The Role of Oxygen Transfer in Oxide Heterostructures on Functional Properties. <i>Advanced Materials Interfaces</i> , 2101867	4.6	
7	Electroforming-Free HfO ₂ :CeO ₂ Vertically Aligned Nanocomposite Memristors with Anisotropic Dielectric Response. <i>ACS Applied Electronic Materials</i> ,	4	4
6	Improved superconducting properties of SmBa ₂ Cu ₃ O _{7-δ} films using YBa ₂ Cu ₃ O _{7-δ} buffer layers		5
5	Altering Self-Assembly of Second Phase Additions in YBa ₂ Cu ₃ O _{7-x} for Pinning Enhancement. <i>Ceramic Transactions</i> , 117-127	0.1	
4	High Dielectric Tunability Ferroelectric (Pb,Sr)TiO ₃ Thin Films for Room Temperature Tunable Microwave Devices. <i>Ceramic Transactions</i> , 43-49	0.1	
3	Large-size free-standing single-crystal Ga ₂ O ₃ membranes fabricated by hydrogen implantation and lift-off. <i>Journal of Materials Chemistry C</i> ,	7.1	7
2	Chemical Interactions of the Ba ₂ YCu ₃ O _{6+x} Superconductor with Coated Conductor Buffer Layers. <i>Ceramic Transactions</i> , 173-186	0.1	1
1	Role of Defects and Power Dissipation on Ferroelectric Memristive Switching. <i>Advanced Electronic Materials</i> , 2101392	6.4	2