

Quanxi Jia

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6072607/quanxi-jia-publications-by-citations.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	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
461	Materials science challenges for high-temperature superconducting wire. <i>Nature Materials</i> , 2007 , 6, 631-42	47	596
460	Ultralong single-wall carbon nanotubes. <i>Nature Materials</i> , 2004 , 3, 673-6	27	441
459	Strain control and spontaneous phase ordering in vertical nanocomposite heteroepitaxial thin films. <i>Nature Materials</i> , 2008 , 7, 314-20	27	297
458	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
457	Electrochromatic carbon nanotube/polydiacetylene nanocomposite fibres. <i>Nature Nanotechnology</i> , 2009 , 4, 738-41	28.7	294
456	Polymer-assisted deposition of metal-oxide films. <i>Nature Materials</i> , 2004 , 3, 529-32	27	283
455	Probing nanoscale ferroelectricity by ultraviolet Raman spectroscopy. <i>Science</i> , 2006 , 313, 1614-6	33.3	272
454	Polymer-embedded carbon nanotube ribbons for stretchable conductors. <i>Advanced Materials</i> , 2010 , 22, 3027-31	24	253
453	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
452	Relationship between film thickness and the critical current of YBa ₂ Cu ₃ O ₇ coated conductors. <i>Applied Physics Letters</i> , 1999 , 75, 3692-3694	3.4	200
451	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
450	Thick lead-free ferroelectric films with high Curie temperatures through nanocomposite-induced strain. <i>Nature Nanotechnology</i> , 2011 , 6, 491-5	28.7	191
449	Tuning the resonance in high-temperature superconducting terahertz metamaterials. <i>Physical Review Letters</i> , 2010 , 105, 247402	7.4	188
448	Carbon nanotube yarn strain sensors. <i>Nanotechnology</i> , 2010 , 21, 305502	3.4	177
447	Overcoming the barrier to 1000Åm width superconducting coatings. <i>Applied Physics Letters</i> , 2005 , 87, 162505	3.4	167
446	Rectifying current-voltage characteristics of BiFeO ₃ /Nb-doped SrTiO ₃ heterojunction. <i>Applied Physics Letters</i> , 2008 , 92, 102113	3.4	166

445	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
444	Temperature-dependent leakage mechanisms of PtBiFeO ₃ /SrRuO ₃ thin film capacitors. <i>Applied Physics Letters</i> , 2007 , 91, 072911	3.4	159
443	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
442	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9965-8	16.4	155
441	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
440	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
439	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
438	Enhanced Structural Stability and Photo Responsiveness of CH ₃ NH ₃ SnI Perovskite via Pressure-Induced Amorphization and Recrystallization. <i>Advanced Materials</i> , 2016 , 28, 8663-8668	24	134
437	Phase transitions and domain structures in strained pseudocubic (100) SrTiO ₃ thin films. <i>Physical Review B</i> , 2006 , 73,	3.3	133
436	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
435	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
434	Structural and Photoelectrochemical Properties of BiVO ₄ Thin Films. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 6099-6102	3.8	126
433	Thermal tunability in terahertz metamaterials fabricated on strontium titanate single-crystal substrates. <i>Optics Letters</i> , 2011 , 36, 1230-2	3	124
432	Nanoscale lithography on monolayer graphene using hydrogenation and oxidation. <i>ACS Nano</i> , 2011 , 5, 6417-24	16.7	122
431	Antiperovskite LiOCl Superionic Conductor Films for Solid-State Li-Ion Batteries. <i>Advanced Science</i> , 2016 , 3, 1500359	13.6	120
430	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
429	Strongly enhanced oxygen ion transport through samarium-doped CeO ₂ nanopillars in nanocomposite films. <i>Nature Communications</i> , 2015 , 6, 8588	17.4	116
428	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

427	Strongly coupled critical current density values achieved in Y1Ba2Cu3O7-x coated conductors with near-single-crystal texture. <i>Applied Physics Letters</i> , 2003 , 82, 4519-4521	3.4	109
426	High nonlinearity of Ba0.6Sr0.4TiO3 films heteroepitaxially grown on MgO substrates. <i>Applied Physics Letters</i> , 2000 , 77, 2587-2589	3.4	101
425	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
424	Ultrafast structural phase transition driven by photoinduced melting of charge and orbital order. <i>Physical Review Letters</i> , 2009 , 103, 155702	7.4	98
423	High-resolution x-ray diffraction and transmission electron microscopy of multiferroic BiFeO3 films. <i>Applied Physics Letters</i> , 2005 , 86, 071913	3.4	97
422	Li-rich anti-perovskite Li3OCl films with enhanced ionic conductivity. <i>Chemical Communications</i> , 2014 , 50, 11520-2	5.8	95
421	Microstructure of epitaxial La0.7Ca0.3MnO3 thin films grown on LaAlO3 and SrTiO3. <i>Journal of Applied Physics</i> , 2000 , 88, 4032	2.5	89
420	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
419	Novel dielectric anomaly in the hole-doped La2Cu(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
418	Tunable and adaptive bandpass filter using a nonlinear dielectric thin film of SrTiO3. <i>Applied Physics Letters</i> , 1996 , 68, 1651-1653	3.4	86
417	Electrically tunable coplanar transmission line resonators using YBa2Cu3O7-x/SrTiO3 bilayers. <i>Applied Physics Letters</i> , 1995 , 66, 3674-3676	3.4	85
416	Metal Oxide Nanocomposites: A Perspective from Strain, Defect, and Interface. <i>Advanced Materials</i> , 2019 , 31, e1803241	24	84
415	Tailoring the morphology of carbon nanotube arrays: from spinnable forests to undulating foams. <i>ACS Nano</i> , 2009 , 3, 2157-62	16.7	83
414	High-temperature superconducting thick films with enhanced supercurrent carrying capability. <i>Applied Physics Letters</i> , 2002 , 80, 1601-1603	3.4	83
413	Vertical Interface Effect on the Physical Properties of Self-Assembled Nanocomposite Epitaxial Films. <i>Advanced Materials</i> , 2009 , 21, 3794-3798	24	82
412	Understanding High Critical Currents in YBa2Cu3O7 Thin Films and Coated Conductors. <i>Journal of Low Temperature Physics</i> , 2004 , 135, 87-98	1.3	81
411	Polymer assisted deposition. <i>Chemical Communications</i> , 2008 , 1271-7	5.8	79
410	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

409	Nanotwins and stacking faults in high-strength epitaxial Ag/Al multilayer films. <i>Applied Physics Letters</i> , 2012 , 101, 223112	3.4	78
408	Structural evidence for enhanced polarization in a commensurate short-period BaTiO ₃ /SrTiO ₃ superlattice. <i>Applied Physics Letters</i> , 2006 , 89, 092905	3.4	78
407	Conducting Interface in Oxide Homojunction: Understanding of Superior Properties in Black TiO ₂ . <i>Nano Letters</i> , 2016 , 16, 5751-5	11.5	77
406	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
405	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
404	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
403	Self-Assembled Epitaxial Au-Oxide Vertically Aligned Nanocomposites for Nanoscale Metamaterials. <i>Nano Letters</i> , 2016 , 16, 3936-43	11.5	75
402	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
401	Multiferroic domain dynamics in strained strontium titanate. <i>Physical Review Letters</i> , 2006 , 97, 257602	7.4	74
400	Phase-field model for epitaxial ferroelectric and magnetic nanocomposite thin films. <i>Applied Physics Letters</i> , 2007 , 90, 052909	3.4	74
399	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
398	Effect of catalyst composition on carbon nanotube growth. <i>Applied Physics Letters</i> , 2003 , 82, 2694-2696	3.4	73
397	Well-Oriented Silicon Thin Films with High Carrier Mobility on Polycrystalline Substrates. <i>Advanced Materials</i> , 2005 , 17, 1527-1531	24	71
396	Role of scaffold network in controlling strain and functionalities of nanocomposite films. <i>Science Advances</i> , 2016 , 2, e1600245	14.3	70
395	Multilevel data storage memory devices based on the controlled capacitive coupling of trapped electrons. <i>Advanced Materials</i> , 2011 , 23, 2064-8	24	69
394	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
393	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
392	Composite carbon nanotube/silica fibers with improved mechanical strengths and electrical conductivities. <i>Small</i> , 2008 , 4, 1964-7	11	67

391	Spectral Evolution in (Ca,Sr)RuO ₃ near the Mott-Hubbard Transition. <i>Physical Review Letters</i> , 1999 , 82, 5321-5324	7.4	67
390	A new class of room-temperature multiferroic thin films with bismuth-based supercell structure. <i>Advanced Materials</i> , 2013 , 25, 1028-32	24	66
389	Prediction of ferroelectricity in BaTiO ₃ /SrTiO ₃ superlattices with domains. <i>Applied Physics Letters</i> , 2007 , 91, 112914	3.4	66
388	Ultrafast carrier dynamics and radiative recombination in multiferroic BiFeO ₃ . <i>Applied Physics Letters</i> , 2012 , 100, 242904	3.4	64
387	Computer simulation of ferroelectric domain structures in epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2008 , 103, 094111	2.5	64
386	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
385	Optical tuning and ultrafast dynamics of high-temperature superconducting terahertz metamaterials. <i>Nanophotonics</i> , 2012 , 1, 117-123	6.3	63
384	Flux pinning enhancement in ferromagnetic and superconducting thin-film multilayers. <i>Applied Physics Letters</i> , 2003 , 82, 778-780	3.4	63
383	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
382	Novel electroforming-free nanoscaffold memristor with very high uniformity, tunability, and density. <i>Advanced Materials</i> , 2014 , 26, 6284-9	24	62
381	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
380	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
379	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
378	Epitaxial growth of highly conductive RuO ₂ thin films on (100) Si. <i>Applied Physics Letters</i> , 1996 , 68, 1069-1071	3.4	60
377	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
376	Work function of the mixed-valent manganese perovskites. <i>Journal of Applied Physics</i> , 2004 , 95, 7971-7975	3.4	59
375	Extremely high tunability and low loss in nanoscaffold ferroelectric films. <i>Nano Letters</i> , 2012 , 12, 4311-711.5	11.5	58
374	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

373	Rare earth ion size effects and enhanced critical current densities in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ coated conductors. <i>Applied Physics Letters</i> , 2005 , 86, 032505	3.4	58
372	The microstructure of continuously processed $\text{YBa}_2\text{Cu}_3\text{O}_y$ 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
371	Pressure-induced dramatic changes in organic-inorganic halide perovskites. <i>Chemical Science</i> , 2017 , 8, 6764-6776	9.4	57
370	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
369	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
368	Influence of deposition rate on the properties of thick $\text{YBa}_2\text{Cu}_3\text{O}_7$ films. <i>Journal of Materials Research</i> , 1997 , 12, 2941-2946	2.5	54
367	Integration of nonlinear dielectric barium strontium titanate with polycrystalline yttrium iron garnet. <i>Applied Physics Letters</i> , 1999 , 74, 1564-1566	3.4	53
366	Induced magnetization in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{BiFeO}_3$ superlattices. <i>Physical Review Letters</i> , 2014 , 113, 047204	7.0	52
365	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
364	Self-assembled epitaxial nanocomposite $\text{BaTiO}_3\text{-NiFe}_2\text{O}_4$ films prepared by polymer-assisted deposition. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14132-3	16.4	50
363	Effects of chemical composition on the optical properties of $\text{Zn}_{1-x}\text{Cd}_x\text{O}$ thin films. <i>Applied Physics Letters</i> , 2004 , 85, 218-220	3.4	49
362	Integrated electro-optic lens/scanner in a LiTaO_3 single crystal. <i>Applied Optics</i> , 1999 , 38, 1186-90	1.7	49
361	Thickness dependence of critical current density in $\text{YBa}_2\text{Cu}_3\text{O}_7$ films with BaZrO_3 and Y_2O_3 addition. <i>Superconductor Science and Technology</i> , 2009 , 22, 085013	3.1	48
360	Structural and dielectric properties of epitaxial Sm_2O_3 thin films. <i>Applied Physics Letters</i> , 2008 , 92, 062904	3.4	46
359	Interfacial coherency and ferroelectricity of $\text{BaTiO}_3/\text{SrTiO}_3$ superlattice films. <i>Applied Physics Letters</i> , 2007 , 91, 252904	3.4	45
358	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
357	Influence of growth temperature on critical current and magnetic flux pinning structures in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Applied Physics Letters</i> , 2007 , 91, 162501	3.4	44
356	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

355	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
354	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
353	Tuning of defects in ZnO nanorod arrays used in bulk heterojunction solar cells. <i>Nanoscale Research Letters</i> , 2012 , 7, 655	5	42
352	Strain effect on coercive field of epitaxial barium titanate thin films. <i>Applied Physics Letters</i> , 2008 , 92, 142907	3.4	42
351	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
350	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
349	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
348	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
347	Characteristics of conductive SrRuO ₃ thin films with different microstructures. <i>Journal of Materials Research</i> , 1996 , 11, 2263-2268	2.5	41
346	Precise Tuning of (YBa ₂ Cu ₃ O _{7-x}) _{1-x} (BaZrO ₃) _x Thin Film Nanocomposite Structures. <i>Advanced Functional Materials</i> , 2014 , 24, 5240-5245	15.6	40
345	Chemical quantification of atomic-scale EDS maps under thin specimen conditions. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1782-90	0.5	40
344	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
343	Chemical solution deposition of epitaxial carbide films. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2516-7	16.4	39
342	Influence of interfacial dislocations on hysteresis loops of ferroelectric films. <i>Journal of Applied Physics</i> , 2008 , 104, 104110	2.5	38
341	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
340	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
339	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
338	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

337	Obtaining ultimate functionalities in nanocomposites: Design, control, and fabrication. <i>MRS Bulletin</i> , 2015 , 40, 719-724	3.2	37
336	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
335	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
334	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
333	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
332	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
331	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
330	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
329	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
328	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
327	The role of a superconducting seed layer in the structural and transport properties of EuBa ₂ Cu ₃ O _{7-x} films. <i>Applied Physics Letters</i> , 2003 , 83, 1388-1390	3.4	35
326	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
325	Transport and magnetism correlations in thin-film ferromagnetic oxides. <i>Journal of Applied Physics</i> , 1996 , 79, 4535	2.5	35
324	Realization of BaZrS ₃ chalcogenide perovskite thin films for optoelectronics. <i>Nano Energy</i> , 2020 , 68, 104317	17.1	35
323	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
322	Atomic-scale chemical quantification of oxide interfaces using energy-dispersive X-ray spectroscopy. <i>Applied Physics Letters</i> , 2013 , 102, 173111	3.4	34
321	Tunable lattice strain in vertically aligned nanocomposite (BiFeO ₃) _x :(Sm ₂ O ₃) _{1-x} thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 094309	2.5	34
320	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

319	Plasma hydrogenation of strained SiBiGeBi heterostructure for layer transfer without ion implantation. <i>Applied Physics Letters</i> , 2005 , 87, 091902	3-4	34
318	Epitaxial growth of Eu2O3 thin films on LaAlO3 substrates by polymer-assisted deposition. <i>Applied Physics Letters</i> , 2004 , 85, 3426-3428	3-4	34
317	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
316	High critical current density YBa2Cu3O7 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
315	Heteroepitaxial growth of highly conductive metal oxide RuO2 thin films by pulsed laser deposition. <i>Applied Physics Letters</i> , 1995 , 67, 1677-1679	3-4	34
314	Surface and interface properties of ferroelectric BaTiO3 thin films on Si using RuO2 as an electrode. <i>Journal of Materials Research</i> , 1994 , 9, 2561-2565	2-5	34
313	Room Temperature Ferrimagnetism and Ferroelectricity in Strained, Thin Films of BiFeMnO. <i>Advanced Functional Materials</i> , 2014 , 24, 7478-7487	15.6	33
312	Textured metastable VO2 (B) thin films on SrTiO3 substrates with significantly enhanced conductivity. <i>Applied Physics Letters</i> , 2014 , 104, 071909	3-4	33
311	Control of epitaxial growth for SrBi2Ta2O9 thin films. <i>Applied Physics Letters</i> , 1998 , 72, 665-667	3-4	33
310	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
309	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	9-6	32
308	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
307	Magnetotransport properties of SrRuO3 epitaxial thin films on (100) LaAlO3: Presence of localized magnetic moments. <i>Physical Review B</i> , 1996 , 54, 37-40	3-3	32
306	Regulating off-centering distortion maximizes photoluminescence in halide perovskites. <i>National Science Review</i> , 2021 , 8, nwaa288	10.8	31
305	Nonlinear high-temperature superconducting terahertz metamaterials. <i>New Journal of Physics</i> , 2013 , 15, 105016	2-9	31
304	A modified Landau-Devonshire thermodynamic potential for strontium titanate. <i>Applied Physics Letters</i> , 2010 , 96, 232902	3-4	31
303	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
302	Electrical characteristics of coplanar waveguide devices incorporating nonlinear dielectric thin films of SrTiO3 and Sr0.5Ba0.5TiO3. <i>Microwave and Optical Technology Letters</i> , 1995 , 9, 306-310	1-2	31

301	A novel approach for evaluating the series resistance of solar cells. <i>Solar Cells</i> , 1988 , 25, 311-318		31
300	Magnetotransport properties of quasi-one-dimensionally channeled vertically aligned heteroepitaxial nanomazes. <i>Applied Physics Letters</i> , 2013 , 102, 093114	3.4	30
299	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
298	Magnetoresistance in polymer-assisted deposited Sr- and Ca-doped lanthanum manganite films. <i>Applied Physics Letters</i> , 2006 , 88, 232510	3.4	30
297	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
296	Evolution of microstructure, strain and physical properties in oxide nanocomposite films. <i>Scientific Reports</i> , 2014 , 4, 5426	4.9	29
295	Magnetic, electronic, and optical properties of double perovskite Bi ₂ FeMnO ₆ . <i>APL Materials</i> , 2017 , 5, 035601	5.7	28
294	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
293	Ultrathin epitaxial superconducting niobium nitride films grown by a chemical solution technique. <i>Chemical Communications</i> , 2008 , 6022-4	5.8	28
292	Effect of ferroelastic twin walls on local polarization switching: Phase-field modeling. <i>Applied Physics Letters</i> , 2008 , 93, 162901	3.4	28
291	Microstructure and transport properties of Y-rich YBa ₂ Cu ₃ O _{7-x} thin films. <i>Journal of Applied Physics</i> , 2006 , 100, 053904	2.5	28
290	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
289	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
288	Highly aligned carbon nanotube forests coated by superconducting NbC. <i>Nature Communications</i> , 2011 , 2, 428	17.4	27
287	A Chemical Solution Approach to Epitaxial Metal Nitride Thin Films. <i>Advanced Materials</i> , 2009 , 21, 193-197	4	27
286	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
285	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
284	Chemical solution derived planarization layers for highly aligned IBAD-MgO templates. <i>Superconductor Science and Technology</i> , 2014 , 27, 022002	3.1	26

283	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
282	Structure and optical properties of Lu ₂ SiO ₅ :Ce phosphor thin films. <i>Applied Physics Letters</i> , 2006 , 89, 101905	3.4	26
281	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
280	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
279	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
278	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
277	Using ultrashort optical pulses to couple ferroelectric and ferromagnetic order in an oxide heterostructure. <i>Nature Communications</i> , 2014 , 5, 5832	17.4	25
276	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
275	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
274	Self-assembled multilayers and enhanced superconductivity in (YBa ₂ Cu ₃ O _{7-x}) _{0.5} :(BaZrO ₃) _{0.5} nanocomposite films. <i>Journal of Applied Physics</i> , 2009 , 106, 093914	2.5	25
273	Epitaxial thin films of pyrochlore iridate BiIrO ₃ : structure, defects and transport properties. <i>Scientific Reports</i> , 2017 , 7, 7740	4.9	24
272	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
271	The role of interfacial defects in enhancing the critical current density of YBa ₂ Cu ₃ O _{7-x} coatings. <i>Superconductor Science and Technology</i> , 2009 , 22, 125002	3.1	24
270	Conduction properties of metal/organic monolayer/semiconductor heterostructures. <i>Applied Physics Letters</i> , 1998 , 73, 2645-2647	3.4	24
269	Mobility enhanced photoactivity in sol-gel grown epitaxial anatase TiO ₂ films. <i>Langmuir</i> , 2008 , 24, 2695-2698	4	24
268	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
267	3D strain-induced superconductivity in LaCuO using a simple vertically aligned nanocomposite approach. <i>Science Advances</i> , 2019 , 5, eaav5532	14.3	22
266	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 10119-10122	3.6	22

265	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
264	Highly conductive films of layered ternary transition-metal nitrides. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1490-3	16.4	22
263	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
262	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
261	Strong and ductile colossal carbon tubes with walls of rectangular macropores. <i>Physical Review Letters</i> , 2008 , 101, 145501	7.4	22
260	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
259	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
258	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
257	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
256	Development of a reliable materials base for superconducting electronics. <i>Journal of Materials Research</i> , 1997 , 12, 2958-2975	2.5	21
255	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
254	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
253	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
252	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
251	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
250	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
249	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
248	Ti-Alloying of BaZrS Chalcogenide Perovskite for Photovoltaics. <i>ACS Omega</i> , 2020 , 5, 18579-18583	3.9	20

- 247 Two-Dimensional Layered Oxide Structures Tailored by Self-Assembled Layer Stacking via Interfacial Strain. *ACS Applied Materials & Interfaces*, **2016**, 8, 16845-51 9.5 19
- 246 Growth dynamics of barium titanate thin films on polycrystalline Ni foils using polymer-assisted deposition technique. *ACS Applied Materials & Interfaces*, **2012**, 4, 2199-203 9.5 19
- 245 Polymer-assisted chemical solution approach to YVO₄:Eu nanoparticle networks. *Journal of Materials Chemistry*, **2012**, 22, 5835 19
- 244 A chemical solution approach for superconducting and hard epitaxial NbC film. *Chemical Communications*, **2010**, 46, 7837-9 5.8 19
- 243 Mixed-Valence Perovskite Thin Films by Polymer-Assisted Deposition. *Journal of the American Ceramic Society*, **2008**, 91, 1858-1863 3.8 19
- 242 Dielectric properties of <001>-oriented Ba_{0.6}Sr_{0.4}TiO₃ thin films on polycrystalline metal tapes using biaxially oriented MgO/Al₂O₃ buffer layers. *Applied Physics Letters*, **2006**, 88, 062907 3.4 19
- 241 Ferroelectric domain reversal in congruent LiTaO₃ crystals at elevated temperatures. *Applied Physics Letters*, **2000**, 76, 2436-2438 3.4 19
- 240 Bose glass vortex phase transition in twinned YBa₂Cu₃O_{7- δ} superconductors. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1996**, 74, 647-654 19
- 239 Role of buffer layers for superconducting YBa₂Cu₃O_{7- δ} thin films on GaAs substrates. *Applied Physics Letters*, **1991**, 59, 1120-1122 3.4 19
- 238 Oxygen content tailored magnetic and electronic properties in cobaltite double perovskite thin films. *Applied Physics Letters*, **2017**, 110, 093102 3.4 18
- 237 Turning antiferromagnetic Sm_{0.34}Sr_{0.66}MnO₃ into a 140 K ferromagnet using a nanocomposite strain tuning approach. *Nanoscale*, **2016**, 8, 8083-90 7.7 18
- 236 Influence of film thickness in THz active metamaterial devices: A comparison between superconductor and metal split-ring resonators. *Applied Physics Letters*, **2013**, 103, 061117 3.4 18
- 235 Radiation damage in heteroepitaxial BaTiO₃ thin films on SrTiO₃ under Ne ion irradiation. *Journal of Applied Physics*, **2013**, 113, 023513 2.5 18
- 234 Defect Distributions and Transport in Nanocomposites: A Theoretical Perspective. *Materials Research Letters*, **2013**, 1, 193-199 7.4 18
- 233 Improved microstructure and enhanced low-field J_c in (Y_{0.67}Eu_{0.33})Ba₂Cu₃O_{7- δ} films. *Superconductor Science and Technology*, **2008**, 21, 025001 3.1 18
- 232 Role of strain in the blistering of hydrogen-implanted silicon. *Applied Physics Letters*, **2006**, 89, 101901 3.4 18
- 231 Deposition and characterization of crystalline conductive RuO₂ thin films. *Journal of Materials Research*, **1995**, 10, 2401-2403 2.5 18
- 230 In situ laser deposition of superconducting YBa₂Cu₃O_{7- δ} thin films on GaAs substrates. *Journal of Applied Physics*, **1991**, 70, 7170-7172 2.5 18

229	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
228	Hidden Interface Driven Exchange Coupling in Oxide Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1700672	24	17
227	Synthetic magnetoelectric coupling in a nanocomposite multiferroic. <i>Scientific Reports</i> , 2015 , 5, 9089	4.9	17
226	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. <i>Advanced Science</i> , 2019 , 6, 1901000	13.6	17
225	Recyclable and electrically conducting carbon nanotube composite films. <i>Nanoscale</i> , 2010 , 2, 418-22	7.7	17
224	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
223	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
222	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
221	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
220	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
219	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
218	Femtosecond dynamics of the structural transition in mixed valence manganites. <i>Physical Review B</i> , 2012 , 86,	3.3	16
217	Nanoconfined surfactant templated electrodeposition to porous hierarchical nanowires and nanotubes. <i>Nanotechnology</i> , 2010 , 21, 165603	3.4	16
216	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
215	Effective thickness and dielectric constant of interfacial layers of PtBi _{3.15} Nd _{0.85} Ti ₃ O ₁₂ BrRuO ₃ capacitors. <i>Applied Physics Letters</i> , 2007 , 90, 232909	3.4	16
214	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
213	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
212	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

211	High-temperature superconductor Josephson junctions with a gradient Pr-doped $Y_{1-x}Pr_xBa_2Cu_3O_{7-x}$ ($x=0.1, 0.3, 0.5$) as barriers. <i>Applied Physics Letters</i> , 1994 , 65, 2866-2868	3.4	16
210	High-Performance barium titanate capacitors with double layer structure. <i>Journal of Electronic Materials</i> , 1991 , 20, 939-944	1.9	16
209	Influence of defect-induced biaxial strain on flux pinning in thick $YBa_2Cu_3O_7$ layers. <i>Physical Review B</i> , 2012 , 86,	3.3	15
208	Magnetoelectric properties of flexible $BiFeO_3/Ni$ tapes. <i>Applied Physics Letters</i> , 2012 , 101, 012908	3.4	15
207	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
206	Lateral epitaxial growth of $(Ba,Sr)TiO_3$ thin films. <i>Applied Physics Letters</i> , 2003 , 83, 5494-5496	3.4	15
205	Superconducting $YBa_2Cu_3O_{7-x}$ thin films on polycrystalline ferrite for magnetically tunable microwave components. <i>Applied Physics Letters</i> , 1998 , 72, 1763-1765	3.4	15
204	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
203	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
202	Oxygen vacancy-driven evolution of structural and electrical properties in $SrFeO_3$ thin films and a method of stabilization. <i>Applied Physics Letters</i> , 2016 , 109, 141906	3.4	15
201	Strain Enhanced Functionality in a Bottom-Up Approach Enabled 3D Super-Nanocomposites. <i>Advanced Functional Materials</i> , 2019 , 29, 1900442	15.6	14
200	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
199	Surface oxidation and thermoelectric properties of indium-doped tin telluride nanowires. <i>Nanoscale</i> , 2017 , 9, 13014-13024	7.7	14
198	Frequency shifts of the E_{2high} Raman mode due to residual stress in epitaxial ZnO thin films. <i>Applied Physics Letters</i> , 2013 , 103, 121904	3.4	14
197	A double-layered carbon nanotube array with super-hydrophobicity. <i>Carbon</i> , 2009 , 47, 3332-3336	10.4	14
196	Power-dependent microwave properties of superconducting $YBa_2Cu_3O_{7-x}$ films on buffered polycrystalline substrates. <i>Applied Physics Letters</i> , 1997 , 70, 3293-3295	3.4	14
195	Epitaxial GaN Thin Films Prepared by Polymer-Assisted Deposition. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20535-20538	3.8	14
194	Microstructural Evolution With the Change in Thickness of Superconducting Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 3243-3246	1.8	14

193	High critical current densities in YBa ₂ Cu ₃ O _{7-x} films grown at high rates by hybrid liquid phase epitaxy. <i>Applied Physics Letters</i> , 2005 , 87, 252507	3.4	14
192	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
191	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
190	Efficient synthesis of tailored magnetic carbon nanotubes via a noncovalent chemical route. <i>Nanoscale</i> , 2011 , 3, 668-73	7.7	13
189	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
188	H-induced platelet and crack formation in hydrogenated epitaxial Si _{1-x} Bi _x O ₃ structures. <i>Applied Physics Letters</i> , 2006 , 88, 021901	3.4	13
187	Dielectric nonlinearity and stochastic effects in strontium titanate. <i>Applied Physics Letters</i> , 2002 , 80, 3391-3393	3.3	13
186	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
185	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
184	Electrodynamic properties of coplanar waveguides made from high-temperature superconducting YBa ₂ Cu ₃ O _{7-x} electrodes on nonlinear dielectric SrTiO ₃ substrates. <i>Journal of Applied Physics</i> , 1999 , 86, 1558-1568	2.5	13
183	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
182	Chalcogenide perovskite BaZrS ₃ thin-film electronic and optoelectronic devices by low temperature processing. <i>Nano Energy</i> , 2021 , 85, 105959	17.1	13
181	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
180	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
179	Nanoporous thin films with controllable nanopores processed from vertically aligned nanocomposites. <i>Nanotechnology</i> , 2010 , 21, 285606	3.4	12
178	Vertical connection of carbon nanotubes to silicon at room temperature using a chemical route. <i>Carbon</i> , 2009 , 47, 933-937	10.4	12
177	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
176	Structural and superconducting properties of (Y,Gd)Ba ₂ Cu ₃ O _{7-x} grown by MOCVD on samarium zirconate buffered IBAD-MgO. <i>Superconductor Science and Technology</i> , 2008 , 21, 105023	3.1	12

175	New potential applications of nonlinear dielectrics: Microwave solitons and stochastic resonance. <i>Integrated Ferroelectrics</i> , 1998 , 22, 259-268	0.8	12
174	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
173	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
172	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
171	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
170	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
169	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
168	Aligned carbon nanotubes sandwiched in epitaxial NbC film for enhanced superconductivity. <i>Nanoscale</i> , 2012 , 4, 2268-71	7.7	11
167	Preparation of Epitaxial Uranium Dicarbide Thin Films by Polymer-Assisted Deposition. <i>Chemistry of Materials</i> , 2013 , 25, 4373-4377	9.6	11
166	Strain Relaxation in Sol-Gel Grown Epitaxial Anatase Thin Films. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4205-4208	3.8	11
165	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
164	Improved superconducting properties of SmBa ₂ Cu ₃ O _{7-x} films using YBa ₂ Cu ₃ O _{7-x} buffer layers. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000 , 80, 45-51		11
163	Interactions between ferroelectric BaTiO ₃ and Si. <i>Journal of Electronic Materials</i> , 1994 , 23, 551-556	1.9	11
162	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
161	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
160	Structural and transport properties of epitaxial Ba(Fe _{1-x} Cox) ₂ As ₂ thin films on various substrates. <i>Superconductor Science and Technology</i> , 2014 , 27, 115010	3.1	10
159	A high-temperature superconducting receiver for low-frequency radio waves. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 3845-3849	1.8	10
158	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

157	Conformal coating of nanoscale features of microporous Anodisc membranes with zirconium and titanium oxides. <i>Chemical Communications</i> , 2006 , 847-9	5.8	10
156	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
155	Development of high temperature superconducting Josephson junctions and quantum interference devices using low deposition temperature YBa ₂ Cu ₃ O _{7-x} barriers. <i>Applied Physics Letters</i> , 1995 , 66, 2280-2282	3.4	10
154	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
153	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
152	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
151	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
150	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
149	Paraelectric thin films for microwave applications. <i>Integrated Ferroelectrics</i> , 1997 , 15, 163-171	0.8	9
148	The role of strain in hydrogenation induced cracking in SiBi _{1-x} GexBi structures. <i>Applied Physics Letters</i> , 2008 , 93, 041909	3.4	9
147	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
146	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
145	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
144	Stable thin film resistors using double layer structure. <i>Journal of Materials Research</i> , 1995 , 10, 1523-1528	2.5	9
143	Microwave surface resistance of YBa ₂ Cu ₃ O _{7-x} films on polycrystalline ceramic substrates with textured buffer layers. <i>Applied Physics Letters</i> , 1996 , 69, 1626-1628	3.4	9
142	Structural and Optical Properties of Phase-Pure UO ₂ , EJO, and EJO Epitaxial Thin Films Grown by Pulsed Laser Deposition. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35232-35241	9.5	9
141	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
140	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

139	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
138	Self-biased magnetoelectric switching at room temperature in three-phase ferroelectric/antiferromagnetic/ferrimagnetic nanocomposites. <i>Nature Electronics</i> , 2021 , 4, 333-341	28.4	8
137	Magnetic and tunable dielectric properties of DyCrO ₃ thin films. <i>Journal of Materials Science</i> , 2019 , 54, 8984-8994	4.3	7
136	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
135	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
134	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
133	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
132	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
131	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
130	Stabilizing new bismuth compounds in thin film form. <i>Journal of Materials Research</i> , 2016 , 31, 3530-3537	2.5	7
129	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
128	Correlation of structural and electrical properties of PrBaCo ₂ O _{5-x} thin films at high temperature. <i>Journal of Materiomics</i> , 2018 , 4, 51-55	6.7	6
127	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
126	BaTiO ₃ -RELATED FERROELECTRIC THIN FILMS BY POLYMER ASSISTED DEPOSITION. <i>Integrated Ferroelectrics</i> , 2008 , 100, 132-139	0.8	6
125	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
124	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
123	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
122	Nanolayer BaTiO ₃ thin film capacitors using magnetron sputtering. <i>Ferroelectrics</i> , 1995 , 166, 111-117	0.6	6

121	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
120	Induced ferroelectric phases in SrTiO ₃ by a nanocomposite approach. <i>Nanoscale</i> , 2020 , 12, 18193-18199	7.7	6
119	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
118	Highly Conductive Films of Layered Ternary Transition-Metal Nitrides. <i>Angewandte Chemie</i> , 2009 , 121, 1518-1521	3.6	5
117	$\text{YBa}_2\text{Cu}_3\text{O}_7$ Coated Conductor Grown by Hybrid Liquid Phase Epitaxy. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 2537-2541	1.8	5
116	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
115	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
114	Pulse shaping using nonlinear dielectric SrTiO ₃ . <i>Applied Physics Letters</i> , 1999 , 74, 1770-1772	3.4	5
113	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
112	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
111	Metal/TaN (8 nm)/Si diode fabricated by DC magnetron sputtering. <i>Applied Physics A: Solids and Surfaces</i> , 1994 , 58, 487-491		5
110	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
109	Improved superconducting properties of SmBa ₂ Cu ₃ O ₇ films using YBa ₂ Cu ₃ O ₇ buffer layers		5
108	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
107	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
106	Effect of Low-Energy Accelerated Ion Bombardment on the Properties of Metal-Organic Decomposition Derived SrBi ₂ (Ta,Nb)O ₉ Thin Films Processed at Low Temperature. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 720-723	3.8	4
105	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
104	Ferroelectrics as a versatile solid state platform for integrated optics. <i>Integrated Ferroelectrics</i> , 1998 , 22, 465-471	0.8	4

103	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
102	Electroforming-Free HfO ₂ :CeO ₂ Vertically Aligned Nanocomposite Memristors with Anisotropic Dielectric Response. <i>ACS Applied Electronic Materials</i> ,	4	4
101	Enhanced magnetocaloric performance in manganite bilayers. <i>Journal of Applied Physics</i> , 2020 , 127, 154102	102	4
100	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
99	A pathway to desired functionalities in vertically aligned nanocomposites and related architectures. <i>MRS Bulletin</i> , 2021 , 46, 115-122	3.2	4
98	Interlayer Effects on Oxygen Reduction Kinetics in Porous Electrodes of La _{0.5} Sr _{0.5} CoO ₃ - λ <i>Journal of the Electrochemical Society</i> , 2014 , 161, F398-F404	3.9	3
97	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 - δ <i>Physical Review B</i> , 2013 , 87,	3.3	3
96	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
95	5f Electronic Structure and Fermiology of Pu Materials. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1264, 1		3
94	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
93	An intermetallic Fe ₂ r catalyst used for growing long carbon nanotube arrays. <i>Materials Letters</i> , 2010 , 64, 1947-1950	3.3	3
92	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
91	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
90	In vacuo Pulsed Laser Ablation of YBa ₂ Cu ₃ O ₇ - δ Target for the Formation of Y ₂ O ₃ Nanostructures. <i>Journal of Materials Research</i> , 2002 , 17, 697-700	2.5	3
89	Structure, processing, and property relationships in tunable rf and microwave devices. <i>Integrated Ferroelectrics</i> , 2001 , 39, 261-270	0.8	3
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	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
86	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

85	Dielectric Properties of Ba _{1-x} SxTiO ₃ Films Grown on LaAlO ₃ Substrates. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 603, 175		3
84	Superconductor GdBa ₂ Cu ₃ O _{7-δ} Edge junctions with lattice-matched Y _{0.6} Pr _{0.4} Ba ₂ Cu ₃ O _{7-δ} barriers. <i>Journal of Applied Physics</i> , 1995 , 78, 2871-2873	2.5	3
83	Characterization of hydrofluoric acid treated YBa ₂ Cu ₃ O _{7-δ} oxides. <i>Journal of Materials Research</i> , 1989 , 4, 1320-1325	2.5	3
82	Passivation of superconducting YBa ₂ Cu ₃ O _{7-δ} thin films by a wet fluoride vapor method. <i>Journal of Applied Physics</i> , 1990 , 67, 2528-2531	2.5	3
81	Nanoscale magnetization inhomogeneity within single phase nanopillars. <i>Physical Review Materials</i> , 2019 , 3,	3.2	3
80	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
79	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
78	Thermal and ultrafast optical tuning of ultrathin high-temperature superconducting terahertz metamaterials 2012 ,		2
77	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
76	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
75	Noise and Operational Characteristics of Magnetometers Made from Superconducting-Normal-Superconducting Josephson Junctions. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 474, 113		2
74	Interplay Between Electronic Transport and Magnetic Order in Ferromagnetic Manganite Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 474, 167		2
73	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
72	Conductive metal oxide thin films 2002 , 677-698		2
71	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
70	Heteroepitaxial growth of RuO ₂ thin films on α -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
69	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
68	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

67	Integration of electro-optic lenses and scanners on ferroelectric LiTaO ₃ . <i>Integrated Ferroelectrics</i> , 1999 , 25, 31-36	0.8	2
66	RF-Magnetron Sputtered Strontium Titanate: Structure, Processing and Property Relationships. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 603, 57		2
65	Nonlinear Dielectric Thin Films For Active and Electrically Tunable Microwave Devices. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 401, 303		2
64	Electrical-current-induced magnetic hysteresis in self-assembled vertically aligned La ₂ /3Sr ₁ /3MnO ₃ :ZnO nanopillar composites. <i>Physical Review Materials</i> , 2018 , 2,	3.2	2
63	Proton switching molecular magnetoelectricity. <i>Nature Communications</i> , 2021 , 12, 4602	17.4	2
62	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
61	Magnetoelectric Radical Hydrocarbons. <i>Advanced Materials</i> , 2019 , 31, e1806263	24	2
60	Role of Defects and Power Dissipation on Ferroelectric Memristive Switching. <i>Advanced Electronic Materials</i> , 2101392	6.4	2
59	Unraveling thickness-dependent spin relaxation in colossal magnetoresistance manganite films. <i>Applied Physics Letters</i> , 2018 , 113, 012402	3.4	1
58	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
57	Materials science challenges for high-temperature superconducting wire 2010 , 299-310		1
56	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
55	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
54	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
53	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
52	Dynamic time expansion and compression using nonlinear waveguides. <i>Applied Physics Letters</i> , 2000 , 77, 3645-3647	3.4	1
51	Epitaxial growth and structural properties of conductive RuO ₂ thin films. <i>Integrated Ferroelectrics</i> , 1999 , 26, 137-151	0.8	1
50	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

49	Electrodynamic 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
48	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
47	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
46	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
45	Plasma-Enhanced MOCVD of Superconducting Oxides. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 335, 261		1
44	Observation of different polarity of charges in metal-ferroelectric-semiconductor structures. <i>Ferroelectrics</i> , 1994 , 160, 1-7	0.6	1
43	Low resistance contacts to Y-Ba-Cu-O thin films. <i>Journal Physics D: Applied Physics</i> , 1989 , 22, 1565-1567	3	1
42	High Temperature Superconducting Quantum Interference Devices in a Superconductor-Normal-Superconductor Geometry 2000 , 99-102		1
41	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
40	Metallic interface induced by electronic reconstruction in crystalline-amorphous bilayer oxide films. <i>Science Bulletin</i> , 2019 , 64, 1567-1572	10.6	0
39	Electrical Properties of Ferroelectric Thin Film Capacitors with Different Structures. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 284, 523		0
38	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
37	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
36	Technology, Preparation, and Characterization 2015 , 193-402		
35	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	
34	YBCO-Coated Conductors 2015 , 1-11		
33	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	
32	Strongly enhanced current densities in superconducting coated conductors of YBa ₂ Cu ₃ O _{7-x} + BaZrO ₃ 2010 , 327-331		

- 31 Observation of Large Low Field Magnetoresistance in Ramp-Edge Tunneling Junctions Based on Doped Manganite Ferromagnetic Electrodes and A SrTiO₃ Insulator. *Materials Research Society Symposia Proceedings*, **1997**, 494, 237
- 30 Topical Issue on Perovskites. *Journal of the American Ceramic Society*, **2008**, 91, 1747-1747 3.8
- 29 Fe(001) thin films for x-ray diffraction and terahertz emission studies. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2006**, 24, 1509-1513 2.9
- 28 Relationship Between Catalyst Composition and Carbon Morphology. *Microscopy and Microanalysis*, **2003**, 9, 328-329 0.5
- 27 Modulation of Energy Band Gap of ZnO Thin Films Grown by Pulsed Laser Deposition. *Materials Research Society Symposia Proceedings*, **2003**, 764, 1
- 26 Lateral Epitaxial Growth of Ba_{0.6}Sr_{0.4}TiO₃ Thin Films. *Integrated Ferroelectrics*, **2003**, 55, 933-938 0.8
- 25 Microstructural Properties of Ba_{0.6}Sr_{0.4}TiO₃/RuO₂ Multi-Layers Grown on MgO and YSZ by Pulsed-Laser Deposition. *Integrated Ferroelectrics*, **2003**, 55, 965-972 0.8
- 24 Effects of Eu interfacial mobility on the growth of epitaxial EuBa₂Cu₃O₇ films. *Applied Physics Letters*, **2005**, 86, 101912 3.4
- 23 Monolithic Integration of Superconducting YBCO and Dielectric SrTiO₃ Films on Polycrystalline Ferrites. *Integrated Ferroelectrics*, **2002**, 42, 71-78 0.8
- 22 Electrodynamic properties of single-crystal and thin-film strontium titanate. *Integrated Ferroelectrics*, **2000**, 28, 193-200 0.8
- 21 Dielectric properties of Ba_{0.6}Sr_{0.4}TiO₃ thin films with various strain states. *Integrated Ferroelectrics*, **2001**, 39, 271-280 0.8
- 20 Integration of Biaxially Aligned Conducting Oxides with Silicon using Ion-Beam Assisted Deposited MgO Templates. *Materials Research Society Symposia Proceedings*, **2001**, 666, 721
- 19 Oriented conductive oxide electrodes on SiO₂/Si. *Integrated Ferroelectrics*, **1998**, 21, 397-406 0.8
- 18 Epitaxial and Conductive RuO₂ Thin Films Grown on MgO and LaAlO₃ by MOCVD. *Materials Research Society Symposia Proceedings*, **1998**, 541, 147
- 17 Growth of LiNbO₃ films on single crystal sapphire substrates using pulsed laser deposition. *Integrated Ferroelectrics*, **1999**, 25, 91-102 0.8
- 16 Ferroelectric domain kinetics in congruent LiTaO₃. *Integrated Ferroelectrics*, **1999**, 27, 137-146 0.8
- 15 High-quality epitaxial YBCO thin films directly on LiNbO₃. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1995**, 71, 903-912
- 14 . *IEEE Transactions on Applied Superconductivity*, **1995**, 5, 1541-1544 1.8

- 13 STM and X-Ray Diffraction Temperature-Dependent Growth Study of SrRuO₃ PLD Thin Films. *Materials Research Society Symposia Proceedings*, **1996**, 441, 57
- 12 Processing of Y₁Ba₂Cu₃O_{7-x} Superconducting Thin Films on GaAs Substrates with Double Buffer Layers. *Materials Research Society Symposia Proceedings*, **1991**, 235, 855
- 11 Processing of Y₁Ba₂Cu₃O_{7-x} Superconducting Thin Films on GaAs Substrates with Double Buffer Layers. *Materials Research Society Symposia Proceedings*, **1991**, 236, 443
- 10 Structural and Electrical Properties of BaTiO₃ Thin Film Capacitors. *Materials Research Society Symposia Proceedings*, **1991**, 243, 291
- 9 Growth and Characterization of Epitaxial BaF₂ on InP. *Materials Research Society Symposia Proceedings*, **1992**, 281, 747
- 8 Surface and interface properties of superconducting YBa₂Cu₃O_{7-x} thin films on GaAs using yttrium stabilized ZrO₂/Si₃N₄ as a buffer layer. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1992**, 10, 1544-1546 2.9
- 7 Effect of thermal treatment on the properties of YBa₂Cu₃O_{7-x} thin films with multilayer Al/Cr/Yb metals as ohmic contact electrodes. *Journal of Electronic Materials*, **1990**, 19, 443-447 1.9
- 6 The Role of Oxygen Transfer in Oxide Heterostructures on Functional Properties. *Advanced Materials Interfaces*, 2101867 4.6
- 5 Formation of pile networks by long carbon nanotubes from decomposition of CO on Co-Mo film. *Journal of Nanoscience and Nanotechnology*, **2004**, 4, 189-91 1.3
- 4 Surface Passivation of Y-Ba-Cu-O Oxide Using Chemical Treatment **1990**, 573-579
- 3 Altering Self-Assembly of Second Phase Additions in YBa₂Cu₃O_{7-x} for Pinning Enhancement. *Ceramic Transactions*, 117-127 0.1
- 2 High Dielectric Tunability Ferroelectric (Pb,Sr)TiO₃ Thin Films for Room Temperature Tunable Microwave Devices. *Ceramic Transactions*, 43-49 0.1
- 1 Polymer-Assisted Deposition **2013**, 141-158