

Quanxi Jia

List of Publications by Year in descending order

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474
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20,506
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9756

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docs citations

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times ranked

16819
citing authors

#	ARTICLE	IF	CITATIONS
1	Strongly enhanced current densities in superconducting coated conductors of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x} + \text{BaZrO}_3$. <i>Nature Materials</i> , 2004, 3, 439-443.	13.3	1,118
2	Materials science challenges for high-temperature superconducting wire. <i>Nature Materials</i> , 2007, 6, 631-642.	13.3	670
3	Ultralong single-wall carbon nanotubes. <i>Nature Materials</i> , 2004, 3, 673-676.	13.3	513
4	Strain control and spontaneous phase ordering in vertical nanocomposite heteroepitaxial thin films. <i>Nature Materials</i> , 2008, 7, 314-320.	13.3	334
5	Transport-magnetism correlations in the ferromagnetic oxide $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. <i>Applied Physics Letters</i> , 1995, 67, 860-862.	1.5	330
6	Electrochromatic carbon nanotube/polydiacetylene nanocomposite fibres. <i>Nature Nanotechnology</i> , 2009, 4, 738-741.	15.6	321
7	Polymer-assisted deposition of metal-oxide films. <i>Nature Materials</i> , 2004, 3, 529-532.	13.3	308
8	Probing Nanoscale Ferroelectricity by Ultraviolet Raman Spectroscopy. <i>Science</i> , 2006, 313, 1614-1616.	6.0	295
9	Polymer-Embedded Carbon Nanotube Ribbons for Stretchable Conductors. <i>Advanced Materials</i> , 2010, 22, 3027-3031.	11.1	277
10	Angular-dependent vortex pinning mechanisms in $\text{YBa}_2\text{Cu}_3\text{O}_7$ coated conductors and thin films. <i>Applied Physics Letters</i> , 2004, 84, 2121-2123.	1.5	254
11	Tuning the Resonance in High-Temperature Superconducting Terahertz Metamaterials. <i>Physical Review Letters</i> , 2010, 105, 247402.	2.9	240
12	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.	3.3	237
13	Thick lead-free ferroelectric films with high Curie temperatures through nanocomposite-induced strain. <i>Nature Nanotechnology</i> , 2011, 6, 491-495.	15.6	220
14	Relationship between film thickness and the critical current of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ -coated conductors. <i>Applied Physics Letters</i> , 1999, 75, 3692-3694.	1.5	213
15	Carbon nanotube yarn strain sensors. <i>Nanotechnology</i> , 2010, 21, 305502.	1.3	201
16	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9965-9968.	7.2	192
17	Overcoming the barrier to 1000-Å-cm width superconducting coatings. <i>Applied Physics Letters</i> , 2005, 87, 162505.	1.5	182
18	A novel approach to fabricate high volume fraction nanocomposites with long aligned carbon nanotubes. <i>Composites Science and Technology</i> , 2010, 70, 1980-1985.	3.8	179

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19	Rectifying current-voltage characteristics of BiFeO ₃ •Nb-doped SrTiO ₃ heterojunction. Applied Physics Letters, 2008, 92, .	1.5	176
20	Enhanced Structural Stability and Photo Responsiveness of CH ₃ NH ₃ Sn ₃ Perovskite via Pressure-Induced Amorphization and Recrystallization. Advanced Materials, 2016, 28, 8663-8668.	11.1	176
21	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. Advanced Functional Materials, 2011, 21, 2423-2429.	7.8	174
22	Temperature-dependent leakage mechanisms of Pt•BiFeO ₃ •SrRuO ₃ thin film capacitors. Applied Physics Letters, 2007, 91, .	1.5	171
23	Effects of very thin strain layers on dielectric properties of epitaxial Ba _{0.6} Sr _{0.4} TiO ₃ films. Applied Physics Letters, 2001, 78, 533-535.	1.5	164
24	Antiperovskite Li ₃ OCl Superionic Conductor Films for Solid-State Li-Ion Batteries. Advanced Science, 2016, 3, 1500359.	5.6	162
25	Phase transitions and domain structures in strained pseudocubic (100)SrTiO ₃ thin films. Physical Review B, 2006, 73, .	1.1	160
26	Microstructure and dielectric properties of Ba _{1-x} Sr _x TiO ₃ films grown on LaAlO ₃ substrates. Applied Physics Letters, 2000, 77, 1200-1202.	1.5	158
27	Microstructure, vertical strain control and tunable functionalities in self-assembled, vertically aligned nanocomposite thin films. Acta Materialia, 2013, 61, 2783-2792.	3.8	153
28	High-T _c coated conductors-performance of meter-long YBCO/IBAD flexible tapes. IEEE Transactions on Applied Superconductivity, 1999, 9, 1519-1522.	1.1	147
29	Strongly enhanced oxygen ion transport through samarium-doped CeO ₂ nanopillars in nanocomposite films. Nature Communications, 2015, 6, 8588.	5.8	145
30	Structural and electrical properties of Ba _{0.5} Sr _{0.5} TiO ₃ thin films with conductive SrRuO ₃ bottom electrodes. Applied Physics Letters, 1995, 66, 2197-2199.	1.5	144
31	Structural and Photoelectrochemical Properties of BiVO ₄ Thin Films. Journal of Physical Chemistry C, 2008, 112, 6099-6102.	1.5	144
32	Thermal tunability in terahertz metamaterials fabricated on strontium titanate single-crystal substrates. Optics Letters, 2011, 36, 1230.	1.7	143
33	Nanoscale Lithography on Monolayer Graphene Using Hydrogenation and Oxidation. ACS Nano, 2011, 5, 6417-6424.	7.3	138
34	Li-rich anti-perovskite Li ₃ OCl films with enhanced ionic conductivity. Chemical Communications, 2014, 50, 11520-11522.	2.2	130
35	Systematic enhancement of in-field critical current density with rare-earth ion size variance in superconducting rare-earth barium cuprate films. Applied Physics Letters, 2004, 84, 5329-5331.	1.5	127
36	Oxygen concentration and its effect on the leakage current in BiFeO ₃ thin films. Applied Physics Letters, 2010, 96, .	1.5	124

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37	Metal Oxide Nanocomposites: A Perspective from Strain, Defect, and Interface. <i>Advanced Materials</i> , 2019, 31, e1803241.	11.1	119
38	Strongly coupled critical current density values achieved in Y1Ba2Cu3O7 δ coated conductors with near-single-crystal texture. <i>Applied Physics Letters</i> , 2003, 82, 4519-4521.	1.5	115
39	Producing superior composites by winding carbon nanotubes onto a mandrel under a poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock	5.4	114
40	High nonlinearity of Ba0.6Sr0.4TiO3 films heteroepitaxially grown on MgO substrates. <i>Applied Physics Letters</i> , 2000, 77, 2587-2589.	1.5	108
41	Ultrafast Structural Phase Transition Driven by Photoinduced Melting of Charge and Orbital Order. <i>Physical Review Letters</i> , 2009, 103, 155702.	2.9	108
42	High-resolution x-ray diffraction and transmission electron microscopy of multiferroic BiFeO[sub 3] films. <i>Applied Physics Letters</i> , 2005, 86, 071913.	1.5	104
43	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.	5.6	98
44	Nanotwins and stacking faults in high-strength epitaxial Ag/Al multilayer films. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	97
45	Electrically tunable coplanar transmission line resonators using YBa2Cu3O7 δ /SrTiO3 bilayers. <i>Applied Physics Letters</i> , 1995, 66, 3674-3676.	1.5	96
46	Tunable and adaptive bandpass filter using a nonlinear dielectric thin film of SrTiO3. <i>Applied Physics Letters</i> , 1996, 68, 1651-1653.	1.5	96
47	Microstructure of epitaxial La[sub 0.7]Ca[sub 0.3]MnO[sub 3] thin films grown on LaAlO[sub 3] and SrTiO[sub 3]. <i>Journal of Applied Physics</i> , 2000, 88, 4032.	1.1	96
48	Tailoring the Morphology of Carbon Nanotube Arrays: From Spinnable Forests to Undulating Foams. <i>ACS Nano</i> , 2009, 3, 2157-2162.	7.3	96
49	Novel Dielectric Anomaly in the Hole-DopedLa2Cu1 δ Li δ O4andLa2 δ Sr δ NiO4Insulators: Signature of an Electronic Glassy State. <i>Physical Review Letters</i> , 2005, 94, 017002.	2.9	94
50	Magneto-resistance up to 60 Tesla in topological insulator Bi2Te3 thin films. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	94
51	Conducting Interface in Oxide Homojunction: Understanding of Superior Properties in Black TiO₂. <i>Nano Letters</i> , 2016, 16, 5751-5755.	4.5	92
52	Role of microstructures on the M1-M2 phase transition in epitaxial VO2 thin films. <i>Scientific Reports</i> , 2014, 4, 4854.	1.6	91
53	Self-Assembled Epitaxial Au δ Oxide Vertically Aligned Nanocomposites for Nanoscale Metamaterials. <i>Nano Letters</i> , 2016, 16, 3936-3943.	4.5	91
54	High-temperature superconducting thick films with enhanced supercurrent carrying capability. <i>Applied Physics Letters</i> , 2002, 80, 1601-1603.	1.5	90

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55	Multiferroic Domain Dynamics in Strained Strontium Titanate. <i>Physical Review Letters</i> , 2006, 97, 257602.	2.9	90
56	Polymer-assisted-deposition: a chemical solution route for a wide range of materials. <i>Chemical Society Reviews</i> , 2013, 42, 439-449.	18.7	90
57	Ionic Conductivity Increased by Two Orders of Magnitude in Micrometer-Thick Vertical Yttria-Stabilized ZrO ₂ Nanocomposite Films. <i>Nano Letters</i> , 2015, 15, 7362-7369.	4.5	90
58	Polymer assisted deposition. <i>Chemical Communications</i> , 2008, , 1271-1277.	2.2	88
59	Vertical Interface Effect on the Physical Properties of Self-Assembled Nanocomposite Epitaxial Films. <i>Advanced Materials</i> , 2009, 21, 3794-3798.	11.1	87
60	Tailoring Conducting Polymer Chemistry for the Chemical Deposition of Metal Particles and Clusters. <i>Chemistry of Materials</i> , 2007, 19, 520-525.	3.2	85
61	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.	0.6	84
62	Vertically Aligned Pearl-like Carbon Nanotube Arrays for Fiber Spinning. <i>Journal of the American Chemical Society</i> , 2008, 130, 1130-1131.	6.6	84
63	Realization of BaZrS ₃ chalcogenide perovskite thin films for optoelectronics. <i>Nano Energy</i> , 2020, 68, 104317.	8.2	83
64	Effect of catalyst composition on carbon nanotube growth. <i>Applied Physics Letters</i> , 2003, 82, 2694-2696.	1.5	81
65	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. <i>Nature Communications</i> , 2016, 7, 12373.	5.8	81
66	Structural evidence for enhanced polarization in a commensurate short-period BaTiO ₃ /SrTiO ₃ superlattice. <i>Applied Physics Letters</i> , 2006, 89, 092905.	1.5	80
67	Role of scaffold network in controlling strain and functionalities of nanocomposite films. <i>Science Advances</i> , 2016, 2, e1600245.	4.7	80
68	A New Class of Room-Temperature Multiferroic Thin Films with Bismuth-Based Supercell Structure. <i>Advanced Materials</i> , 2013, 25, 1028-1032.	11.1	78
69	In situ video observation of 180° domain kinetics in congruent LiNbO ₃ crystals. <i>Applied Physics Letters</i> , 1999, 75, 2482-2484.	1.5	77
70	Phase-field model for epitaxial ferroelectric and magnetic nanocomposite thin films. <i>Applied Physics Letters</i> , 2007, 90, 052909.	1.5	77
71	Ultrafast carrier dynamics and radiative recombination in multiferroic BiFeO ₃ . <i>Applied Physics Letters</i> , 2012, 100, .	1.5	77
72	Well-Oriented Silicon Thin Films with High Carrier Mobility on Polycrystalline Substrates. <i>Advanced Materials</i> , 2005, 17, 1527-1531.	11.1	75

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73	Optical tuning and ultrafast dynamics of high-temperature superconducting terahertz metamaterials. <i>Nanophotonics</i> , 2012, 1, 117-123.	2.9	75
74	Novel Electroforming-Free Nanoscaffold Memristor with Very High Uniformity, Tunability, and Density. <i>Advanced Materials</i> , 2014, 26, 6284-6289.	11.1	75
75	Prediction of ferroelectricity in BaTiO ₃ -SrTiO ₃ superlattices with domains. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	74
76	Pressure-induced dramatic changes in organic-inorganic halide perovskites. <i>Chemical Science</i> , 2017, 8, 6764-6776.	3.7	74
77	Multilevel Data Storage Memory Devices Based on the Controlled Capacitive Coupling of Trapped Electrons. <i>Advanced Materials</i> , 2011, 23, 2064-2068.	11.1	73
78	Composite Carbon Nanotube/Silica Fibers with Improved Mechanical Strengths and Electrical Conductivities. <i>Small</i> , 2008, 4, 1964-1967.	5.2	72
79	Computer simulation of ferroelectric domain structures in epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	70
80	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.	1.1	70
81	Regulating off-centering distortion maximizes photoluminescence in halide perovskites. <i>National Science Review</i> , 2021, 8, nwaa288.	4.6	70
82	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.	1.5	69
83	Spectral Evolution in (Ca,Sr)RuO ₃ near the Mott-Hubbard Transition. <i>Physical Review Letters</i> , 1999, 82, 5321-5324.	2.9	69
84	Extremely High Tunability and Low Loss in Nanoscaffold Ferroelectric Films. <i>Nano Letters</i> , 2012, 12, 4311-4317.	4.5	69
85	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.	1.5	68
86	Flux pinning enhancement in ferromagnetic and superconducting thin-film multilayers. <i>Applied Physics Letters</i> , 2003, 82, 778-780.	1.5	68
87	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.	1.5	67
88	Rare earth ion size effects and enhanced critical current densities in Y ₂ Sm ₁ 3Ba ₂ Cu ₃ O _{7-x} coated conductors. <i>Applied Physics Letters</i> , 2005, 86, 032505.	1.5	65
89	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.	1.5	64
90	Leakage mechanisms of self-assembled (BiFeO ₃) _{0.5} :(Sm ₂ O ₃) _{0.5} nanocomposite films. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	64

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91	Epitaxial growth of highly conductive RuO ₂ thin films on (100) Si. Applied Physics Letters, 1996, 68, 1069-1071.	1.5	63
92	Structural and dielectric properties of epitaxial Ba _{1-x} Sr _x TiO ₃ films grown on LaAlO ₃ substrates by polymer-assisted deposition. Applied Physics Letters, 2004, 85, 5007-5009.	1.5	63
93	Effect of tolerance factor and local distortion on magnetic properties of the perovskite manganites. Applied Physics Letters, 1999, 75, 1146-1148.	1.5	61
94	Integration of nonlinear dielectric barium strontium titanate with polycrystalline yttrium iron garnet. Applied Physics Letters, 1999, 74, 1564-1566.	1.5	60
95	Work function of the mixed-valent manganese perovskites. Journal of Applied Physics, 2004, 95, 7971-7975.	1.1	60
96	Improvement in performance of electrically tunable devices based on nonlinear dielectric SrTiO ₃ using a homoepitaxial LaAlO ₃ interlayer. Applied Physics Letters, 1998, 73, 897-899.	1.5	59
97	The microstructure of continuously processed Yb ₂ Cu ₃ O _{7-y} coated conductors with underlying CeO ₂ and ion-beam-assisted yttria-stabilized zirconia buffer layers. Journal of Materials Research, 2000, 15, 1110-1119.	1.2	59
98	Optical property and Stokes shift of Zn _{1-x} Cd _x O thin films depending on Cd content. Journal of Applied Physics, 2006, 99, 066113.	1.1	59
99	Induced Magnetization in $\langle \text{La} \rangle_{0.7} \langle \text{Mn} \rangle_{0.7}$ Physical Review Letters, 2014, 113, 047204.	1.1	59
100	Epitaxial growth and metal-insulator transition of vanadium oxide thin films with controllable phases. Applied Physics Letters, 2012, 101, 071902.	1.5	58
101	Optical band gap of NpO ₂ and PuO ₂ from optical absorbance of epitaxial films. Journal of Applied Physics, 2013, 113, .	1.1	58
102	Influence of deposition rate on the properties of thick YBa ₂ Cu ₃ O _{7-δ} films. Journal of Materials Research, 1997, 12, 2941-2946.	1.2	57
103	Integrated electro-optic lens/scanner in a LiTaO ₃ single crystal. Applied Optics, 1999, 38, 1186.	2.1	55
104	Large-angle electro-optic laser scanner on LiTaO ₃ fabricated by in situ monitoring of ferroelectric-domain micropatterning. Applied Optics, 2001, 40, 6236.	2.1	54
105	Self-Assembled Epitaxial Nanocomposite BaTiO ₃ /NiFe ₂ O ₄ Films Prepared by Polymer-Assisted Deposition. Journal of the American Chemical Society, 2007, 129, 14132-14133.	6.6	54
106	Strain Tuning and Strong Enhancement of Ionic Conductivity in SrZrO ₃ /RE ₂ O ₃ (RE = Sm, Eu, Gd, Dy, and Er) Nanocomposite Films. Advanced Functional Materials, 2015, 25, 4328-4333.	7.8	54
107	Ti-Alloying of BaZrS ₃ Chalcogenide Perovskite for Photovoltaics. ACS Omega, 2020, 5, 18579-18583.	1.6	54
108	Thickness dependence of critical current density in YBa ₂ Cu ₃ O _{7-δ} films with BaZrO ₃ and Y ₂ O ₃ addition. Superconductor Science and Technology, 2009, 22, 085013.	1.8	53

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109	Effects of chemical composition on the optical properties of Zn _{1-x} Cd _x O thin films. Applied Physics Letters, 2004, 85, 218-220.	1.5	51
110	Structural and dielectric properties of epitaxial Sm ₂ O ₃ thin films. Applied Physics Letters, 2008, 92, 062905.	1.5	50
111	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. Advanced Functional Materials, 2020, 30, 2000664.	7.8	50
112	Characteristics of conductive SrRuO ₃ thin films with different microstructures. Journal of Materials Research, 1996, 11, 2263-2268.	1.2	49
113	Interfacial coherency and ferroelectricity of BaTiO ₃ /SrTiO ₃ superlattice films. Applied Physics Letters, 2007, 91, 252904.	1.5	49
114	Precise Tuning of (YBa ₂ Cu ₃ O _{7-δ}) _{1-x} :(BaZrO ₃) _x Thin Film Nanocomposite Structures. Advanced Functional Materials, 2014, 24, 5240-5245.	7.8	49
115	Oxygen Vacancy-Tuned Physical Properties in Perovskite Thin Films with Multiple B-site Valance States. Scientific Reports, 2017, 7, 46184.	1.6	49
116	Epitaxial Superconducting $\hat{\Gamma}$ -MoN Films Grown by a Chemical Solution Method. Journal of the American Chemical Society, 2011, 133, 20735-20737.	6.6	48
117	Strain effect on coercive field of epitaxial barium titanate thin films. Applied Physics Letters, 2008, 92, .	1.5	47
118	Epitaxial growth of BiFeO ₃ thin films by LPE and sol-gel methods. Journal of Magnetism and Magnetic Materials, 2004, 283, 415-421.	1.0	46
119	Influence of growth temperature on critical current and magnetic flux pinning structures in YBa ₂ Cu ₃ O _{7-x} . Applied Physics Letters, 2007, 91, 162501.	1.5	46
120	Misfit strain-misfit strain diagram of epitaxial BaTiO ₃ thin films: Thermodynamic calculations and phase-field simulations. Applied Physics Letters, 2008, 93, 232904.	1.5	46
121	Tuning of defects in ZnO nanorod arrays used in bulk heterojunction solar cells. Nanoscale Research Letters, 2012, 7, 655.	3.1	46
122	Obtaining ultimate functionalities in nanocomposites: Design, control, and fabrication. MRS Bulletin, 2015, 40, 719-724.	1.7	46
123	Chalcogenide perovskite BaZrS ₃ thin-film electronic and optoelectronic devices by low temperature processing. Nano Energy, 2021, 85, 105959.	8.2	46
124	Strain relaxation and enhanced perpendicular magnetic anisotropy in BiFeO ₃ :CoFe ₂ O ₄ vertically aligned nanocomposite thin films. Applied Physics Letters, 2014, 104, .	1.5	45
125	High quality epitaxial thin films of actinide oxides, carbides, and nitrides: Advancing understanding of electronic structure of f-element materials. Coordination Chemistry Reviews, 2014, 266-267, 137-154.	9.5	45
126	Chemical Solution Deposition of Epitaxial Carbide Films. Journal of the American Chemical Society, 2010, 132, 2516-2517.	6.6	44

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127	Microstructural and magnetic properties of (La _{0.7} Sr _{0.3} MnO ₃) _{0.7} :(Mn ₃ O ₄) _{0.3} nanocomposite thin films. Journal of Applied Physics, 2011, 109, .	1.1	44
128	Chemical Quantification of Atomic-Scale EDS Maps under Thin Specimen Conditions. Microscopy and Microanalysis, 2014, 20, 1782-1790.	0.2	43
129	Strong perpendicular exchange bias in epitaxial La _{0.7} Sr _{0.3} MnO ₃ :BiFeO ₃ nanocomposite films through vertical interfacial coupling. Nanoscale, 2015, 7, 13808-13815.	2.8	43
130	Heteroepitaxial growth of highly conductive metal oxide RuO ₂ thin films by pulsed laser deposition. Applied Physics Letters, 1995, 67, 1677-1679.	1.5	42
131	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. Applied Physics Letters, 2002, 81, 4571-4573.	1.5	42
132	Domain stability of PbTiO ₃ thin films under anisotropic misfit strains: Phase-field simulations. Journal of Applied Physics, 2008, 104, .	1.1	42
133	Interfacial Strain-Induced Oxygen Disorder as the Cause of Enhanced Critical Current Density in Superconducting Thin Films. Advanced Functional Materials, 2009, 19, 835-841.	7.8	42
134	Strain-Induced Ferromagnetism and Magnetoresistance in Epitaxial Thin Films of LaCoO ₃ Prepared by Polymer-Assisted Deposition. Chemistry of Materials, 2013, 25, 55-58.	3.2	42
135	Transport and magnetism correlations in thin-film ferromagnetic oxides. Journal of Applied Physics, 1996, 79, 4535.	1.1	41
136	Influence of interfacial dislocations on hysteresis loops of ferroelectric films. Journal of Applied Physics, 2008, 104, .	1.1	41
137	Facile Synthesis and Electrical Properties of Silver Wires through Chemical Reduction by Polyaniline. Journal of Physical Chemistry C, 2010, 114, 22147-22154.	1.5	41
138	Textured metastable VO ₂ (B) thin films on SrTiO ₃ substrates with significantly enhanced conductivity. Applied Physics Letters, 2014, 104, .	1.5	41
139	Microstructure of SrTiO ₃ buffer layers and its effects on superconducting properties of YBa ₂ Cu ₃ O _{7-δ} coated conductors. Journal of Materials Research, 2004, 19, 1869-1875.	1.2	40
140	Plasma hydrogenation of strained Si ⁻ /SiGe ⁻ /Si heterostructure for layer transfer without ion implantation. Applied Physics Letters, 2005, 87, 091902.	1.5	40
141	Coexistence of bi-stable memory and mono-stable threshold resistance switching phenomena in amorphous NbO _x films. Applied Physics Letters, 2012, 100, .	1.5	40
142	Perpendicular Exchange-Biased Magnetotransport at the Vertical Heterointerfaces in La _{0.7} Sr _{0.3} MnO ₃ :NiO Nanocomposites. ACS Applied Materials & Interfaces, 2015, 7, 21646-21651.	4.0	40
143	Surface and interface properties of ferroelectric BaTiO ₃ thin films on Si using RuO ₂ as an electrode. Journal of Materials Research, 1994, 9, 2561-2565.	1.2	39
144	Photovoltaic response and dielectric properties of epitaxial anatase-TiO ₂ films grown on conductive La _{0.5} Sr _{0.5} CoO ₃ electrodes. Applied Physics Letters, 2001, 79, 2797-2799.	1.5	39

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145	Epitaxial nature and anisotropic dielectric properties of (Pb,Sr)TiO ₃ thin films on NdGaO ₃ substrates. Applied Physics Letters, 2005, 86, 142902.	1.5	39
146	Strong room temperature magnetism in highly resistive strained thin films of BiFe _{0.5} Mn _{0.5} O ₃ . Applied Physics Letters, 2011, 98, .	1.5	39
147	Self-Assembled Magnetic Metallic Nanopillars in Ceramic Matrix with Anisotropic Magnetic and Electrical Transport Properties. ACS Applied Materials & Interfaces, 2016, 8, 20283-20291.	4.0	39
148	Recent progress in continuously processed IBAD MgO template meters for HTS applications. Physica C: Superconductivity and Its Applications, 2002, 382, 43-47.	0.6	38
149	Coherent optical and acoustic phonon generation correlated with the charge-ordering phase transition in La ^{1-x} CaxMnO ₃ . Physical Review B, 2005, 71, .	1.1	38
150	A modified Landau-Devonshire thermodynamic potential for strontium titanate. Applied Physics Letters, 2010, 96, .	1.5	38
151	Room Temperature Ferrimagnetism and Ferroelectricity in Strained, Thin Films of BiFe _{0.5} Mn _{0.5} O ₃ . Advanced Functional Materials, 2014, 24, 7478-7487.	7.8	38
152	Magnetic, electronic, and optical properties of double perovskite Bi ₂ FeMnO ₆ . APL Materials, 2017, 5, .	2.2	38
153	Control of epitaxial growth for SrBi ₂ Ta ₂ O ₉ thin films. Applied Physics Letters, 1998, 72, 665-667.	1.5	37
154	Effects of Organic Self-assembled Polymer and Metal Phthalocyanine Multilayers on the Surface Photovoltaic Properties of Indium Tin Oxide and Titanium Oxide. Chemistry of Materials, 2002, 14, 1159-1165.	3.2	37
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