Lane Martin

List of Publications by Year
in descending order

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251 papers	22,686 citations	13827 67 h-index	9073 144 g-index
262 all docs	262 docs citations	262 times ranked	16814 citing authors

#	Article	IF	Citations
1	A Predictive Theory for Domain Walls in Oxide Ferroelectrics Based on Interatomic Interactions and its Implications for Collective Material Properties. Advanced Materials, 2022, 34, e2106021.	11.1	7
2	Exploring the Pb_{1â”’}_xSr_xHfO₃ System and Potential for High Capacitive Energy Storage Density and Efficiency. Advanced Materials, 2022, 34, e2105967.	11.1	32
3	Electric field control of chirality. Science Advances, 2022, 8, eabj8030.	4.7	35
4	Tunable Nanoscale Evolution and Topological Phase Transitions of a Polar Vortex Supercrystal. Advanced Materials, 2022, 34, e2106401.	11.1	9
5	Observation of solid-state bidirectional thermal conductivity switching in antiferroelectric lead zirconate (PbZrO3). Nature Communications, 2022, 13, 1573.	5.8	25
6	The role of lattice dynamics in ferroelectric switching. Nature Communications, 2022, 13, 1110.	5.8	25
7	Field-induced heterophase state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PbZrO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:n thin films. Physical Review B, 2022, 105, .	3.7	12
8	Effect of substrate clamping on evolution of properties in homovalent and heterovalent relaxor thin films. Physical Review B, 2022, 105, .	3.7	3
9	Thinâ€Film Ferroelectrics. Advanced Materials, 2022, 34, e2108841.	11.1	33
10	Chiral structures of electric polarization vectors quantified by X-ray resonant scattering. Nature Communications, 2022, 13, 1769.	5.8	6
11	Tunable Microwave Conductance of Nanodomains in Ferroelectric PbZr _{0.2} Ti _{0.8} O ₃ Thin Film. Advanced Electronic Materials, 2022, 8, 2100952.	2.6	5
12	Enabling ultra-low-voltage switching in BaTiO3. Nature Materials, 2022, 21, 779-785.	13.3	28
13	Freestanding complex-oxide membranes. Journal of Physics Condensed Matter, 2022, 34, 383001.	0.7	12
14	Local negative permittivity and topological phase transition in polar skyrmions. Nature Materials, 2021, 20, 194-201.	13.3	86
15	Recent Progress on Topological Structures in Ferroic Thin Films and Heterostructures. Advanced Materials, 2021, 33, e2000857.	11.1	84
16	Pyroelectric thin filmsâ€”Past, present, and future. APL Materials, 2021, 9, .	2.2	20
17	Growth mode and strain effect on relaxor ferroelectric domains in epitaxial 0.67Pb(Mg_{1/3}Nb_{2/3})O₃â€“0.33PbTiO₃/SrRuO₃ heterostructures. RSC Advances, 2021, 11, 1222-1232.	1.7	7
18	Epitaxial Ferroelectric Hf_{0.5}Zr_{0.5}O₂ with Metallic Pyrochlore Oxide Electrodes. Advanced Materials, 2021, 33, e2006089.	11.1	26

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19	Local Probe Comparison of Ferroelectric Switching Event Statistics in the Creep and Depinning Regimes in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Pb</mml:mi><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mrow><mml:mi>Zr</mml:mi></mml:mrow><mml:mrow><mml:mn>0.2</mml:mn><mml:m	2.9	13
20	Whirls and swirls of polarization. Science, 2021, 371, 992-993.	6.0	3
21	Correlating Surface Crystal Orientation and Gas Kinetics in Perovskite Oxide Electrodes. Advanced Materials, 2021, 33, e2100977.	11.1	17
22	Vortex Domain Walls in Ferroelectrics. Nano Letters, 2021, 21, 3533-3539.	4.5	34
23	Subterahertz collective dynamics of polar vortices. Nature, 2021, 592, 376-380.	13.7	66
24	Electric field control of magnetism: multiferroics and magnetoelectrics. Rivista Del Nuovo Cimento, 2021, 44, 251-289.	2.0	12
25	Lowâ€Voltage Magnetoelectric Coupling in Fe_{0.5}Rh_{0.5}/0.68PbMg_{1/3}Nb_{2/3}O₃â€0.32PbTiO₃ Thinâ€Film Heterostructures. Advanced Functional Materials, 2021, 31, 2105068.	18	8
26	Emergent chirality in a polar meron to skyrmion transition revealed by 4D-STEM. Microscopy and Microanalysis, 2021, 27, 348-350.	0.2	7
27	Frequency-dependent suppression of field-induced polarization rotation in relaxor ferroelectric thin films. Matter, 2021, 4, 2367-2377.	5.0	6
28	Probing Metastable Domain Dynamics via Automated Experimentation in Piezoresponse Force Microscopy. ACS Nano, 2021, 15, 15096-15103.	7.3	6
29	Strainâ€Induced Orbital Contributions to Oxygen Electrocatalysis in Transitionâ€Metal Perovskites. Advanced Energy Materials, 2021, 11, 2102175.	10.2	9
30	Atomic scale crystal field mapping of polar vortices in oxide superlattices. Nature Communications, 2021, 12, 6273.	5.8	13
31	Designing Optimal Perovskite Structure for High Ionic Conduction. Advanced Materials, 2020, 32, e1905178.	11.1	30
32	Light-Induced Currents at Domain Walls in Multiferroic BiFeO₃. Nano Letters, 2020, 20, 145-151.	4.5	36
33	Non-linearity in engineered lead magnesium niobate (PbMg1/3Nb2/3O3) thin films. Journal of Applied Physics, 2020, 128, 194102.	1.1	3
34	Full Control of Polarization in Ferroelectric Thin Films Using Growth Temperature to Modulate Defects. Advanced Electronic Materials, 2020, 6, 2000852.	2.6	13
35	Searching for New Ferroelectric Materials Using High-Throughput Databases: An Experimental Perspective on BiAlO₃ and BiInO₃. Chemistry of Materials, 2020, 32, 7274-7283.	3.2	16
36	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. Advanced Functional Materials, 2020, 30, 2000664.	7.8	50

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37	Toward Intrinsic Ferroelectric Switching in Multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BiFeO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> Physical Review Letters, 2020, 125, 067601.	2.9	37
38	Beyond Substrates: Strain Engineering of Ferroelectric Membranes. Advanced Materials, 2020, 32, e2003780.	11.1	58
39	Beyond Expectation: Advanced Materials Design, Synthesis, and Processing to Enable Novel Ferroelectric Properties and Applications. MRS Advances, 2020, 5, 3453-3472.	0.5	1
40	Piezoresponse amplitude and phase quantified for electromechanical characterization. Journal of Applied Physics, 2020, 128, .	1.1	31
41	Ultralow Voltage Manipulation of Ferromagnetism. Advanced Materials, 2020, 32, e2001943.	11.1	44
42	Manipulating magnetoelectric energy landscape in multiferroics. Nature Communications, 2020, 11, 2836.	5.8	42
43	Integration of amorphous ferromagnetic oxides with multiferroic materials for room temperature magnetoelectric spintronics. Scientific Reports, 2020, 10, 3583.	1.6	16
44	Finite-size effects in lead scandium tantalate relaxor thin films. Physical Review B, 2020, 101, .	1.1	11
45	Ultrahigh capacitive energy density in ion-bombarded relaxor ferroelectric films. Science, 2020, 369, 81-84.	6.0	184
46	Phonon-induced near-field resonances in multiferroic BiFeO3 thin films at infrared and THz wavelengths. Applied Physics Letters, 2020, 116, 071103.	1.5	20
47	Large Polarization and Susceptibilities in Artificial Morphotropic Phase Boundary PbZr_{1â^'}_xTi_xO₃ Superlattices. Advanced Electronic Materials, 2020, 6, 1901395.	2.6	17
48	Defectâ€Enhanced Polarization Switching in the Improper Ferroelectric LuFeO₃. Advanced Materials, 2020, 32, e2000508.	11.1	25
49	Giant Superelastic Piezoelectricity in Flexible Ferroelectric BaTiO₃ Membranes. ACS Nano, 2020, 14, 5053-5060.	7.3	34
50	To switch or not to switch â€“ a machine learning approach for ferroelectricity. Nanoscale Advances, 2020, 2, 2063-2072.	2.2	12
51	A new era in ferroelectrics. APL Materials, 2020, 8, .	2.2	36
52	The 2019 materials by design roadmap. Journal Physics D: Applied Physics, 2019, 52, 013001.	1.3	236
53	In situ Electric Field Manipulation of Ferroelectric Vortices. Microscopy and Microanalysis, 2019, 25, 1844-1845.	0.2	3
54	Emergence of the Vortex State in Confined Ferroelectric Heterostructures. Advanced Materials, 2019, 31, e1901014.	11.1	37

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55	Revealing ferroelectric switching character using deep recurrent neural networks. Nature Communications, 2019, 10, 4809.	5.8	34
56	Versatile and Highly Efficient Controls of Reversible Topotactic Metalâ€“Insulator Transitions through Proton Intercalation. Advanced Functional Materials, 2019, 29, 1907072.	7.8	28
57	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. Nature Communications, 2019, 10, 3951.	5.8	43
58	Quantifying Intrinsic, Extrinsic, Dielectric, and Secondary Pyroelectric Responses in PbZr_{1â€“x}Ti_xO₃ Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 35146-35154.	4.0	16
59	Platinum nanoparticle induced nanoionic effects on electrical conduction in strontium cerate and zirconate. Journal of Solid State Electrochemistry, 2019, 23, 953-963.	1.2	6
60	New approach to waste-heat energy harvesting: pyroelectric energy conversion. NPG Asia Materials, 2019, 11, .	3.8	78
61	Observation of room-temperature polar skyrmions. Nature, 2019, 568, 368-372.	13.7	417
62	Kinetic control of tunable multi-state switching in ferroelectric thin films. Nature Communications, 2019, 10, 1282.	5.8	47
63	Optical creation of a supercrystal with three-dimensional nanoscale periodicity. Nature Materials, 2019, 18, 377-383.	13.3	105
64	Epitaxial Strain Control of Relaxor Ferroelectric Phase Evolution. Advanced Materials, 2019, 31, e1901060.	11.1	29
65	Enhanced spontaneous polarization in double perovskite Bi₂FeCrO₆ films. Journal of the American Ceramic Society, 2019, 102, 5234-5242.	1.9	19
66	Ferroelectric properties of ion-irradiated bismuth ferrite layers grown via molecular-beam epitaxy. APL Materials, 2019, 7, .	2.2	10
67	Defect-Induced (Dis)Order in Relaxor Ferroelectric Thin Films. Physical Review Letters, 2019, 123, 207602.	2.9	23
68	Enhanced pyroelectric properties of Bi1â^'xLaxFeO3 thin films. APL Materials, 2019, 7, .	2.2	11
69	Electronic Structure and Band Alignment of LaMnO₃/SrTiO₃ Polar/Nonpolar Heterojunctions. Advanced Materials Interfaces, 2019, 6, 1801428.	1.9	22
70	Relaxor Behavior in Ordered Lead Magnesium Niobate (PbMg_{1/3}Nb_{2/3}O₃) Thin Films. Advanced Functional Materials, 2019, 29, 1804258.	7.8	17
71	Understanding the Role of Ferroelastic Domains on the Pyroelectric and Electrocaloric Effects in Ferroelectric Thin Films. Advanced Materials, 2019, 31, e1803312.	11.1	34
72	Pyroelectric energy conversion with large energy and power density in relaxor ferroelectric thin films. Nature Materials, 2018, 17, 432-438.	13.3	198

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73	Strain-Driven Nanoscale Phase Competition near the Antipolarâ€“Nonpolar Phase Boundary in Bi_{0.7}La_{0.3}FeO₃ Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 14914-14921.	4.0	8
74	Reducing Coercive-Field Scaling in Ferroelectric Thin Films via Orientation Control. ACS Nano, 2018, 12, 4736-4743.	7.3	47
75	Subtractive fabrication of ferroelectric thin films with precisely controlled thickness. Nanotechnology, 2018, 29, 155302.	1.3	7
76	Chemical Phenomena of Atomic Force Microscopy Scanning. Analytical Chemistry, 2018, 90, 3475-3481.	3.2	20
77	Emergent chirality in the electric polarization texture of titanate superlattices. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 915-920.	3.3	121
78	Electronic Transport and Ferroelectric Switching in Ionâ€Bombarded, Defectâ€Engineered BiFeO₃ Thin Films. Advanced Materials Interfaces, 2018, 5, 1700991.	1.9	29
79	Experimental Demonstration of Ferroelectric Spiking Neurons for Unsupervised Clustering. , 2018, , .		55
80	Complex strain evolution of polar and magnetic order in multiferroic BiFeO3 thin films. Nature Communications, 2018, 9, 3764.	5.8	40
81	Ultrafast collective oxygen-vacancy flow in Ca-doped BiFeO3. NPG Asia Materials, 2018, 10, 943-955.	3.8	21
82	Perspective: Emergent topologies in oxide superlattices. APL Materials, 2018, 6, 100901.	2.2	28
83	Nanoscale Electrochemical Phenomena of Polarization Switching in Ferroelectrics. ACS Applied Materials & Interfaces, 2018, 10, 38217-38222.	4.0	18
84	Phase Coexistence of Ferroelectric Vortices and Classical a1/a2 Domains in PbTiO3/SrTiO3 Superlattices.. Microscopy and Microanalysis, 2018, 24, 1638-1639.	0.2	2
85	Nonstoichiometry, structure, and properties of Ba_{1â^'x}TiO_ythin films. Journal of Materials Chemistry C, 2018, 6, 10751-10759.	2.7	16
86	Ambipolar ferromagnetism by electrostatic doping of a manganite. Nature Communications, 2018, 9, 1897.	5.8	51
87	Intrinsic Two-Dimensional Ferroelectricity with Dipole Locking. Physical Review Letters, 2018, 120, 227601.	2.9	322
88	Machine Detection of Enhanced Electromechanical Energy Conversion in PbZr_{0.2}Ti_{0.8}O₃ Thin Films. Advanced Materials, 2018, 30, e1800701.	11.1	23
89	Resonant domain-wall-enhanced tunable microwave ferroelectrics. Nature, 2018, 560, 622-627.	13.7	82
90	Electronic and Polar Properties of Vanadate Compounds Stabilized by Epitaxial Strain. Chemistry of Materials, 2018, 30, 5870-5877.	3.2	8

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91	Reply to â€œComment on â€˜Ultrafast terahertz-field-driven ionic response in ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi> ' â€. Physical Review B, 2018, 97, .	1.1	1
92	Local control of defects and switching properties in ferroelectric thin films. Physical Review Materials, 2018, 2, .	0.9	34
93	Pyroelectric and electrocaloric effects in ferroelectric silicon-doped hafnium oxide thin films. Physical Review Materials, 2018, 2, .	0.9	26
94	Stability of Polar Vortex Lattice in Ferroelectric Superlattices. Nano Letters, 2017, 17, 2246-2252.	4.5	131
95	The role of ceramic and glass science research in meeting societal challenges: Report from an <scp>NSF</scp>â€sponsored workshop. Journal of the American Ceramic Society, 2017, 100, 1777-1803.	1.9	23
96	Large polarization gradients and temperature-stable responses in compositionally-graded ferroelectrics. Nature Communications, 2017, 8, 14961.	5.8	60
97	Slow Conductance Relaxation in Grapheneâ€“Ferroelectric Field-Effect Transistors. Journal of Physical Chemistry C, 2017, 121, 7542-7548.	1.5	15
98	Direct Measurement of Pyroelectric and Electrocaloric Effects in Thin Films. Physical Review Applied, 2017, 7, .	1.5	54
99	Pressurizing Field-Effect Transistors of Few-Layer MoS₂ in a Diamond Anvil Cell. Nano Letters, 2017, 17, 194-199.	4.5	31
100	Epitaxy on polycrystalline substrates. Science, 2017, 358, 587-588.	6.0	10
101	Electron Accumulation and Emergent Magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LaMnO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub> Heterostructures. Physical Review Letters, 2017, 119, 156801.	2.9	63
102	Orientation-dependent properties of epitaxially strained perovskite oxide thin films: Insights from first-principles calculations. Physical Review B, 2017, 95, .	1.1	22
103	Ferroelectricity in Pb_{1+Î´}ZrO₃ Thin Films. Chemistry of Materials, 2017, 29, 6544-6551.	3.2	32
104	Threeâ€State Ferroelastic Switching and Large Electromechanical Responses in PbTiO₃ Thin Films. Advanced Materials, 2017, 29, 1702069.	11.1	74
105	Phase coexistence and electric-field control of toroidal order in oxide superlattices. Nature Materials, 2017, 16, 1003-1009.	13.3	159
106	Quantification of flexoelectricity in PbTiO3/SrTiO3 superlattice polar vortices using machine learning and phase-field modeling. Nature Communications, 2017, 8, 1468.	5.8	93
107	Thin-film ferroelectric materials and their applications. Nature Reviews Materials, 2017, 2, .	23.3	590
108	Quantitative Mapping of Strain, Polarization, and Octahedral Distortion at unit cell resolution by Scanning Electron Diffraction. Microscopy and Microanalysis, 2017, 23, 434-435.	0.2	0

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109	Differential voltage amplification from ferroelectric negative capacitance. Applied Physics Letters, 2017, 111, .	1.5	36
110	Structural imaging of nanoscale phonon transport in ferroelectrics excited by metamaterial-enhanced terahertz fields. Physical Review Materials, 2017, 1, .	0.9	5
111	Mapping growth windows in quaternary perovskite oxide systems by hybrid molecular beam epitaxy. Applied Physics Letters, 2016, 109, .	1.5	22
112	Single gate p-n junctions in graphene-ferroelectric devices. Applied Physics Letters, 2016, 108, .	1.5	26
113	High Power Density Pyroelectric Energy Conversion in Nanometer-Thick BaTiO₃ Films. Nanoscale and Microscale Thermophysical Engineering, 2016, 20, 137-146.	1.4	20
114	Microwave a.c. conductivity of domain walls in ferroelectric thin films. Nature Communications, 2016, 7, 11630.	5.8	81
115	Interfacial Octahedral Rotation Mismatch Control of the Symmetry and Properties of SrRuO₃. ACS Applied Materials & Interfaces, 2016, 8, 14871-14878.	4.0	59
116	New modalities of strain-control of ferroelectric thin films. Journal of Physics Condensed Matter, 2016, 28, 263001.	0.7	86
117	Nanodomain Engineering in Ferroelectric Capacitors with Graphene Electrodes. Nano Letters, 2016, 16, 6460-6466.	4.5	41
118	Enhanced Electrical Resistivity and Properties via Ion Bombardment of Ferroelectric Thin Films. Advanced Materials, 2016, 28, 10750-10756.	11.1	52
119	Nonstoichiometry, Structure, and Properties of BiFeO₃ Films. Chemistry of Materials, 2016, 28, 5952-5961.	3.2	54
120	Frontiers in strain-engineered multifunctional ferroic materials. MRS Communications, 2016, 6, 151-166.	0.8	17
121	Ultrafast terahertz-field-driven ionic response in ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2016, 94, .	1.1	78
122	Self-Assembled, Nanostructured, Tunable Metamaterials via Spinodal Decomposition. ACS Nano, 2016, 10, 10237-10244.	7.3	47
123	Strain-induced growth instability and nanoscale surface patterning in perovskite thin films. Scientific Reports, 2016, 6, 26075.	1.6	24
124	Observation of polar vortices in oxide superlattices. Nature, 2016, 530, 198-201.	13.7	682
125	Surface Chemically Switchable Ultraviolet Luminescence from Interfacial Two-Dimensional Electron Gas. Nano Letters, 2016, 16, 681-687.	4.5	11
126	Highly mobile ferroelastic domain walls in compositionally graded ferroelectric thin films. Nature Materials, 2016, 15, 549-556.	13.3	98

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127	Asymmetric Response of Ferroelastic Domain-Wall Motion under Applied Bias. ACS Applied Materials & Interfaces, 2016, 8, 2935-2941.	4.0	11
128	X-ray diffraction and spectroscopy of photoinduced ferroic superstructures (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (		0
129	Structural phase diagram and pyroelectric properties of free-standing ferroelectric/non-ferroelectric multilayer heterostructures. Journal of Applied Physics, 2015, 118, .	1.1	4
130	Toward Deterministic Switching in Ferroelectric Systems: Insight Gained from In Situ TEM. Microscopy and Microanalysis, 2015, 21, 1347-1348.	0.2	0
131	Ultrafast Terahertz Gating of the Polarization and Giant Nonlinear Optical Response in BiFeO₃ Thin Films. Advanced Materials, 2015, 27, 6371-6375.	11.1	47
132	Epitaxial growth of highly-crystalline spinel ferrite thin films on perovskite substrates for all-oxide devices. Scientific Reports, 2015, 5, 10363.	1.6	30
133	Visible light carrier generation in co-doped epitaxial titanate films. Applied Physics Letters, 2015, 106, 092901.	1.5	12
134	Magnetically disordered phase in epitaxial iron-deficient<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>thin films. Physical Review B, 2015, 91, .	1.1	15
135	Ferroelectrically driven spatial carrier density modulation in graphene. Nature Communications, 2015, 6, 6136.	5.8	142
136	Complex Evolution of Built-in Potential in Compositionally-Graded PbZr_{1â€“x}Ti_xO₃ Thin Films. ACS Nano, 2015, 9, 7332-7342.	7.3	39
137	Towards reversible control of domain wall conduction in Pb(Zr0.2Ti0.8)O3 thin films. Applied Physics Letters, 2015, 106, .	1.5	33
138	Polarization screening-induced magnetic phase gradients at complex oxide interfaces. Nature Communications, 2015, 6, 6735.	5.8	71
139	Thermal conductance of strongly bonded metal-oxide interfaces. Physical Review B, 2015, 91, .	1.1	65
140	Orientation-dependent structural phase diagrams and dielectric properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">PbZr</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">Ti</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>polydomain. Physical Review B, 2015, 91, .	1.1	37
141	Self-regulated growth of LaVO3 thin films by hybrid molecular beam epitaxy. Applied Physics Letters, 2015, 106, .	1.5	42
142	180Â° Ferroelectric Stripe Nanodomains in BiFeO₃ Thin Films. Nano Letters, 2015, 15, 6506-6513.	4.5	58
143	A Novel, Layered Phase in Tiâ€Rich SrTiO₃ Epitaxial Thin Films. Advanced Materials, 2015, 27, 861-868.	11.1	9
144	Ferroelectric polarization reversal via successive ferroelastic transitions. Nature Materials, 2015, 14, 79-86.	13.3	216

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145	Emerging Multiferroic Memories. , 2014, , 103-166.		10
146	Effects of Nonequilibrium Growth, Nonstoichiometry, and Film Orientation on the Metal-to-Insulator Transition in NdNiO₃ Thin Films. ACS Applied Materials & Interfaces, 2014, 6, 22436-22444.	4.0	50
147	Single Crystal Rare-earth Scandate Perovskites Analyzed Using X-ray Photoelectron Spectroscopy: 3. GdScO3(110). Surface Science Spectra, 2014, 21, 149-156.	0.3	4
148	An Introduction to Single Crystal Perovskites and Single Crystal Rare-Earth Scandate Perovskites Analyzed Using X-ray Photoelectron Spectroscopy. Surface Science Spectra, 2014, 21, 84-86.	0.3	3
149	Single Crystal Perovskites Analyzed Using X-ray Photoelectron Spectroscopy: 4. (LaAlO3)0.3(Sr2TaAlO6)0.7(001). Surface Science Spectra, 2014, 21, 112-121.	0.3	1
150	Single Crystal Perovskites Analyzed Using X-ray Photoelectron Spectroscopy: 2. YAlO3(110). Surface Science Spectra, 2014, 21, 95-102.	0.3	2
151	Single Crystal Perovskites Analyzed Using X-ray Photoelectron Spectroscopy: 1. SrTiO3(001). Surface Science Spectra, 2014, 21, 87-94.	0.3	11
152	Single Crystal Perovskites Analyzed Using X-ray Photoelectron Spectroscopy: 3. LaAlO3(001). Surface Science Spectra, 2014, 21, 103-111.	0.3	2
153	High-frequency thermal-electrical cycles for pyroelectric energy conversion. Journal of Applied Physics, 2014, 116, .	1.1	37
154	Secondary effects in wide frequency range measurements of the pyroelectric coefficient of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ba</mml:mi><mml:mrow><mml:mn>0.6</mml:mn></mm xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PbZr</mml:mi><mml:mrow><mml:mn>0.2</mml:mn></m Physical Review B, 2014, 90, .	1.1	20
155	Enhanced electrocaloric and pyroelectric response from ferroelectric multilayers. Applied Physics Letters, 2014, 105, .	1.5	40
156	Effect of â€œsymmetry mismatchâ€•on the domain structure of rhombohedral BiFeO3 thin films. Applied Physics Letters, 2014, 104, .	1.5	62
157	Tunability of conduction at the LaAlO3/SrTiO3 heterointerface: Thickness and compositional studies. Applied Physics Letters, 2014, 105, 121610.	1.5	13
158	Tuning Susceptibility via Misfit Strain in Relaxed Morphotropic Phase Boundary PbZr_{1â€x}Ti_xO₃ Epitaxial Thin Films. Advanced Materials Interfaces, 2014, 1, 1400098.	1.9	16
159	Single Crystal Perovskites Analyzed Using X-ray Photoelectron Spectroscopy: 5. NdGaO3(110). Surface Science Spectra, 2014, 21, 122-130.	0.3	2
160	Single Crystal Rare-earth Scandate Perovskites Analyzed Using X-ray Photoelectron Spectroscopy: 2. NdScO3(110). Surface Science Spectra, 2014, 21, 140-148.	0.3	3
161	Single Crystal Rare-earth Scandate Perovskites Analyzed Using X-ray Photoelectron Spectroscopy: 4. TbScO3(110). Surface Science Spectra, 2014, 21, 157-164.	0.3	3
162	Single Crystal Rare-earth Scandate Perovskites Analyzed Using X-ray Photoelectron Spectroscopy: 5. DyScO3(110). Surface Science Spectra, 2014, 21, 165-172.	0.3	3

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