

Marin Alexe

List of Publications by Year in descending order

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347
papers

16,698
citations

13087

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19169

118
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359
docs citations

359
times ranked

12603
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic-scale study of electric dipoles near charged and uncharged domain walls in ferroelectric films. <i>Nature Materials</i> , 2008, 7, 57-61.	13.3	467
2	Role of domain walls in the abnormal photovoltaic effect in BiFeO ₃ . <i>Nature Communications</i> , 2013, 4, .	5.8	461
3	NANO-phase SBT-family ferroelectric memories. <i>Integrated Ferroelectrics</i> , 1998, 21, 1-14.	0.3	425
4	Reversible electrical switching of spin polarization in multiferroic tunnel junctions. <i>Nature Materials</i> , 2012, 11, 289-293.	13.3	403
5	Direct Observation of Continuous Electric Dipole Rotation in Flux-Closure Domains in Ferroelectric Pb(Zr,Ti)O ₃ . <i>Science</i> , 2011, 331, 1420-1423.	6.0	382
6	Tip-enhanced photovoltaic effects in bismuth ferrite. <i>Nature Communications</i> , 2011, 2, .	5.8	375
7	Impact of misfit dislocations on the polarization instability of epitaxial nanostructured ferroelectric perovskites. <i>Nature Materials</i> , 2004, 3, 87-90.	13.3	347
8	Photovoltaics with Ferroelectrics: Current Status and Beyond. <i>Advanced Materials</i> , 2016, 28, 5153-5168.	11.1	330
9	Nanoshell tubes of ferroelectric lead zirconate titanate and barium titanate. <i>Applied Physics Letters</i> , 2003, 83, 440-442.	1.5	290
10	Individually addressable epitaxial ferroelectric nanocapacitor arrays with near Tb inch ² density. <i>Nature Nanotechnology</i> , 2008, 3, 402-407.	15.6	270
11	Flexo-photovoltaic effect. <i>Science</i> , 2018, 360, 904-907.	6.0	262
12	Metal-ferroelectric-metal heterostructures with Schottky contacts. I. Influence of the ferroelectric properties. <i>Journal of Applied Physics</i> , 2005, 98, 124103.	1.1	258
13	Piezoresponse force microscopy and nanoferroic phenomena. <i>Nature Communications</i> , 2019, 10, 1661.	5.8	252
14	Direct imaging of the spatial and energy distribution of nucleation centres in ferroelectric materials. <i>Nature Materials</i> , 2008, 7, 209-215.	13.3	250
15	Intrinsic Ferroelectric Properties of Strained Tetragonal PbZr _{0.2} Ti _{0.8} O ₃ Obtained on Layer-by-Layer Grown, Defect-Free Single-Crystalline Films. <i>Advanced Materials</i> , 2006, 18, 1657-1661.	11.1	248
16	Structural and optical characteristics of bismuth oxide thin films. <i>Surface Science</i> , 2002, 507-510, 480-485.	0.8	243
17	Ferroelectric polarization-leakage current relation in high quality epitaxial Pb(Zr,Ti)O ₃ films. <i>Physical Review B</i> , 2007, 75, .	1.1	227
18	A photoferroelectric material is more than the sum of its parts. <i>Nature Materials</i> , 2012, 11, 260-260.	13.3	219

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19	Template-Assisted Large-Scale Ordered Arrays of ZnO Pillars for Optical and Piezoelectric Applications. <i>Small</i> , 2006, 2, 561-568.	5.2	209
20	Vortex Polarization States in Nanoscale Ferroelectric Arrays. <i>Nano Letters</i> , 2009, 9, 1127-1131.	4.5	197
21	Artificial Optoelectronic Synapses Based on Ferroelectric Field-Effect Enabled 2D Transition Metal Dichalcogenide Memristive Transistors. <i>ACS Nano</i> , 2020, 14, 746-754.	7.3	190
22	Multiferroic Iron Oxide Thin Films at Room Temperature. <i>Advanced Materials</i> , 2014, 26, 4645-4652.	11.1	172
23	Polarization imprint and size effects in mesoscopic ferroelectric structures. <i>Applied Physics Letters</i> , 2001, 79, 242-244.	1.5	167
24	Electroresistance effects in ferroelectric tunnel barriers. <i>Physical Review B</i> , 2010, 82, .	1.1	167
25	Physical aspects of ferroelectric semiconductors for photovoltaic solar energy conversion. <i>Physics Reports</i> , 2016, 653, 1-40.	10.3	166
26	Room-Temperature Ferroelectric Resistive Switching in Ultrathin $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ Films. <i>ACS Nano</i> , 2011, 5, 6032-6038.	7.3	156
27	Vortex ferroelectric domains. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 342201.	0.7	155
28	Patterning and switching of nanosize ferroelectric memory cells. <i>Applied Physics Letters</i> , 1999, 75, 1793-1795.	1.5	151
29	Short-circuit photocurrent in epitaxial lead zirconate-titanate thin films. <i>Journal of Applied Physics</i> , 2007, 101, 064109.	1.1	149
30	Ferroelectric Switching in Multiferroic Magnetite (Fe_3O_4) Thin Films. <i>Advanced Materials</i> , 2009, 21, 4452-4455.	11.1	148
31	Ferroelectric epitaxial nanocrystals obtained by a self-patterning method. <i>Applied Physics Letters</i> , 2003, 83, 2211-2213.	1.5	143
32	Metal-ferroelectric-metal structures with Schottky contacts. II. Analysis of the experimental current-voltage and capacitance-voltage characteristics of $\text{Pb}(\text{Zr,Ti})\text{O}_3$ thin films. <i>Journal of Applied Physics</i> , 2005, 98, 124104.	1.1	141
33	Multilevel charge storage in silicon nanocrystal multilayers. <i>Applied Physics Letters</i> , 2005, 87, 202110.	1.5	138
34	Piezoelectric and pyroelectric effects induced by interface polar symmetry. <i>Nature</i> , 2020, 584, 377-381.	18.7	136
35	Quantitative ferroelectric characterization of single submicron grains in Bi-layered perovskite thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2000, 70, 261-267.	1.1	134
36	Patterning and switching of nano-size ferroelectric memory cells. <i>Scripta Materialia</i> , 2001, 44, 1175-1179.	2.6	131

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37	Coupled Ultrafast Lattice and Polarization Dynamics in Ferroelectric Nanolayers. <i>Physical Review Letters</i> , 2007, 98, 257601.	2.9	115
38	Functional Perovskites “ From Epitaxial Films to Nanostructured Arrays. <i>Advanced Functional Materials</i> , 2008, 18, 3892-3906.	7.8	113
39	Contact resonances in voltage-modulated force microscopy. <i>Applied Physics Letters</i> , 2003, 83, 338-340.	1.5	112
40	Light-Induced Reversible Control of Ferroelectric Polarization in BiFeO_3 . <i>Advanced Materials</i> , 2018, 30, e1704908.	11.1	112
41	Switching properties of self-assembled ferroelectric memory cells. <i>Applied Physics Letters</i> , 1999, 75, 1158-1160.	1.5	111
42	Flexible Quasi-Two-Dimensional CoFe_2O_4 Epitaxial Thin Films for Continuous Strain Tuning of Magnetic Properties. <i>ACS Nano</i> , 2017, 11, 8002-8009.	7.3	111
43	Self-patterning nano-electrodes on ferroelectric thin films for gigabit memory applications. <i>Applied Physics Letters</i> , 1998, 73, 1592-1594.	1.5	104
44	Tunnel electroresistance in junctions with ultrathin ferroelectric $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ barriers. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	96
45	Ferroelectric-like hysteresis loop in nonferroelectric systems. <i>Applied Physics Letters</i> , 2005, 87, 112903.	1.5	95
46	Magnetolectric Coupling in Ordered Arrays of Multilayered Heteroepitaxial $\text{BaTiO}_3/\text{CoFe}_2\text{O}_4$ Nanodots. <i>Nano Letters</i> , 2011, 11, 3202-3206.	4.5	94
47	Settling the “Dead Layer” Debate in Nanoscale Capacitors. <i>Advanced Materials</i> , 2009, 21, 4911-4914.	11.1	93
48	Electrostatic-free piezoresponse force microscopy. <i>Scientific Reports</i> , 2017, 7, 41657.	1.6	90
49	The influence of the top-contact metal on the ferroelectric properties of epitaxial ferroelectric $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ thin films. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	89
50	Nanoscale properties of thin twin walls and surface layers in piezoelectric WO_3 . <i>Applied Physics Letters</i> , 2010, 96, .	1.5	89
51	Low temperature silicon dioxide by thermal atomic layer deposition: Investigation of material properties. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	86
52	Microstructure and Properties of Well-Ordered Multiferroic $\text{Pb}(\text{Zr,Ti})\text{O}_3/\text{CoFe}_2\text{O}_4$ Nanocomposites. <i>ACS Nano</i> , 2010, 4, 1099-1107.	7.3	86
53	Effect of a Single Dislocation in a Heterostructure Layer on the Local Polarization of a Ferroelectric Layer. <i>Physical Review Letters</i> , 2009, 102, 117601.	2.9	81
54	Skin Layer of BiFeO_3 Crystals. <i>Physical Review Letters</i> , 2011, 106, 236101.	2.9	79

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55	Emerging Opportunities for 2D Semiconductor/Ferroelectric Transistor Structure Devices. <i>Advanced Materials</i> , 2021, 33, e2005620.	11.1	76
56	Mesoscopic ferroelectric cell arrays prepared by imprint lithography. <i>Applied Physics Letters</i> , 2003, 83, 1827-1829.	1.5	74
57	Metal Membranes with Hierarchically Organized Nanotube Arrays. <i>Chemistry of Materials</i> , 2005, 17, 3325-3327.	3.2	74
58	High-Density Periodically Ordered Magnetic Cobalt Ferrite Nanodot Arrays by Template-Assisted Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , 2009, 19, 3450-3455.	7.8	74
59	Nanostructured Ferroelectrics: Fabrication and Structure-Property Relations. <i>Advanced Materials</i> , 2011, 23, 4599-4613.	11.1	74
60	Ferroelectric nanotubes fabricated using nanowires as positive templates. <i>Applied Physics Letters</i> , 2006, 89, 172907.	1.5	72
61	Coexistence of ferroelectricity and antiferroelectricity in epitaxial PbZrO ₃ films with different orientations. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	71
62	Bi ₄ Ti ₃ O ₁₂ ferroelectric thin film ultraviolet detectors. <i>Applied Physics Letters</i> , 1998, 73, 342-344.	1.5	70
63	Energy Harvesting Using Nanowires?. <i>Advanced Materials</i> , 2008, 20, 4021-4026.	11.1	70
64	Surface phase transitions in BiFeO ₃ below room temperature. <i>Physical Review B</i> , 2012, 85, .	1.1	70
65	Ordered Ferroelectric Lead Titanate Nanocellular Structure by Conversion of Anodic TiO ₂ Nanotubes. <i>Advanced Materials</i> , 2009, 21, 3121-3125.	11.1	69
66	Ultrahigh Density Array of Epitaxial Ferroelectric Nanoislands on Conducting Substrates. <i>Nano Letters</i> , 2010, 10, 2141-2146.	4.5	69
67	Nonlinear Phenomena in Multiferroic Nanocapacitors: Joule Heating and Electromechanical Effects. <i>ACS Nano</i> , 2011, 5, 9104-9112.	7.3	69
68	Non-Conventional Micro- and Nanopatterning Techniques for Electroceramics. , 2004, 12, 69-88.		68
69	Epitaxial thin films of the multiferroic double perovskite Bi ₂ FeCrO ₆ grown on (100)-oriented SrTiO ₃ substrates: Growth, characterization, and optimization. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	68
70	Nucleation-Induced Self-Assembly of Multiferroic BiFeO ₃ -CoFe ₂ O ₄ Nanocomposites. <i>Nano Letters</i> , 2013, 13, 3884-3889.	4.5	68
71	Investigation on switching kinetics in epitaxial Pb(Zr _{0.2} Ti _{0.8})O ₃ ferroelectric thin films: Role of the 90° domain walls. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	66
72	Self-assembled nanoscale ferroelectrics. <i>Journal of Materials Science</i> , 2006, 41, 1-11.	1.7	65

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73	Threading dislocations in epitaxial ferroelectric PbZr _{0.2} Ti _{0.8} O ₃ films and their effect on polarization backswitching. Philosophical Magazine, 2006, 86, 4477-4486.	0.7	64
74	Switching of magnetic anisotropy in epitaxial CoFe ₂ O ₄ thin films induced by SrRuO ₃ buffer layer. Journal Physics D: Applied Physics, 2009, 42, 175006.	1.3	64
75	Persistent Photoconductivity in Strained Epitaxial BiFeO ₃ Thin Films. Nano Letters, 2014, 14, 5224-5228.	4.5	64
76	Artefacts in geometric phase analysis of compound materials. Ultramicroscopy, 2015, 157, 91-97.	0.8	64
77	Controlling Resistance Switching Polarities of Epitaxial BaTiO ₃ Films by Mediation of Ferroelectricity and Oxygen Vacancies. Advanced Electronic Materials, 2015, 1, 1500069.	2.6	64
78	Piezoresponse Scanning Force Microscopy: What Quantitative Information Can We Really Get Out of Piezoresponse Measurements on Ferroelectric Thin Films. Integrated Ferroelectrics, 2002, 44, 113-124.	0.3	63
79	Orientation-dependent potential barriers in case of epitaxial Pt/BiFeO ₃ /SrRuO ₃ capacitors. Applied Physics Letters, 2009, 94, .	1.5	63
80	Substrate influence on the optical and structural properties of pulsed laser deposited BiFeO ₃ epitaxial films. Journal of Applied Physics, 2010, 107, .	1.1	63
81	Local Mapping of Generation and Recombination Lifetime in BiFeO ₃ Single Crystals by Scanning Probe Photoinduced Transient Spectroscopy. Nano Letters, 2012, 12, 2193-2198.	4.5	63
82	Si nanocrystal based memories: Effect of the nanocrystal density. Journal of Applied Physics, 2006, 100, 014310.	1.1	62
83	Epitaxial strain stabilization of a ferroelectric phase in PbZrO ₃ thin films. Physical Review B, 2011, 84, .	1.1	61
84	Crossover of conduction mechanism in Sr ₂ IrO ₄ epitaxial thin films. Applied Physics Letters, 2014, 105, .	1.5	59
85	Direct Evidence for Cation Nonstoichiometry and Cottrell Atmospheres Around Dislocation Cores in Functional Oxide Interfaces. Advanced Materials, 2010, 22, 2430-2434.	11.1	58
86	Non-Kolmogorov-Avrami-Ishibashi Switching Dynamics in Nanoscale Ferroelectric Capacitors. Nano Letters, 2010, 10, 1266-1270.	4.5	58
87	The Nature of Magnetoelectric Coupling in Pb(Zr,Ti)O ₃ /Pb(Fe,Ta)O ₃ . Advanced Materials, 2015, 27, 6068-6073.	11.1	58
88	Polarization curling and flux closures in multiferroic tunnel junctions. Nature Communications, 2016, 7, 13484.	5.8	58
89	Preparation and Elastic Properties of Helical Nanotubes Obtained by Atomic Layer Deposition with Carbon Nanocoils as Templates. Small, 2010, 6, 910-914.	5.2	57
90	Anisotropic Ion Migration and Electronic Conduction in van der Waals Ferroelectric CuInP ₂ S ₆ . Nano Letters, 2021, 21, 995-1002.	4.5	57

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91	Extrinsic contributions to the apparent thickness dependence of the dielectric constant in epitaxial Pb(Zr,Ti)O ₃ thin films. <i>Physical Review B</i> , 2007, 75, .	1.1	56
92	Spatially Resolved Mapping of Polarization Switching Behavior in Nanoscale Ferroelectrics. <i>Advanced Materials</i> , 2008, 20, 109-114.	11.1	56
93	Spintronic Functionality of BiFeO ₃ Domain Walls. <i>Advanced Materials</i> , 2014, 26, 7078-7082.	11.1	56
94	Flexible Memristors Based on Single-Crystalline Ferroelectric Tunnel Junctions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23313-23319.	4.0	56
95	Enhancement of Local Photovoltaic Current at Ferroelectric Domain Walls in BiFeO ₃ . <i>Scientific Reports</i> , 2017, 7, 43070.	1.6	54
96	100-nm lateral size ferroelectric memory cells fabricated by electron-beam direct writing. <i>Applied Physics A: Materials Science and Processing</i> , 2000, 70, 247-251.	1.1	53
97	Ultrafast magnetostriction and phonon-mediated stress in a photoexcited ferromagnet. <i>Physical Review B</i> , 2008, 78, .	1.1	53
98	Thickness-driven antiferroelectric-to-ferroelectric phase transition of thin PbZrO ₃ layers in epitaxial PbZrO ₃ /Pb(Zr _{0.8} Ti _{0.2})O ₃ multilayers. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	52
99	Microstructure and electrical properties of (120)O-oriented and of (001)O-oriented epitaxial antiferroelectric PbZrO ₃ thin films on (100) SrTiO ₃ substrates covered with different oxide bottom electrodes. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	52
100	Bulk photovoltaic effect in monodomain BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	52
101	Measurement of interface trap states in metal/ferroelectric/silicon heterostructures. <i>Applied Physics Letters</i> , 1998, 72, 2283-2285.	1.5	51
102	Self-patterning of arrays of ferroelectric capacitors: description by theory of substrate mediated strain interactions. <i>Journal of Physics Condensed Matter</i> , 2003, 15, L667-L671.	0.7	51
103	Electric-Field Control of the Orbital Occupancy and Magnetic Moment of a Transition-Metal Oxide. <i>Physical Review Letters</i> , 2015, 115, 157401.	2.9	51
104	Dual-Ferroelectric-Coupling-Engineered Two-Dimensional Transistors for Multifunctional In-Memory Computing. <i>ACS Nano</i> , 2022, 16, 3362-3372.	7.3	51
105	First-Order Reversal Curve Probing of Spatially Resolved Polarization Switching Dynamics in Ferroelectric Nanocapacitors. <i>ACS Nano</i> , 2012, 6, 491-500.	7.3	50
106	BaBi ₄ Ti ₄ O ₁₅ ferroelectric thin films grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 1999, 74, 603-605.	1.5	49
107	Initial growth stages of epitaxial BaTiO ₃ films on vicinal SrTiO ₃ (001) substrate surfaces. <i>Journal of Applied Physics</i> , 2002, 91, 10157.	1.1	48
108	High epitaxial quality Y ₂ O ₃ high- ϵ dielectric on vicinal Si(001) surfaces. <i>Applied Physics Letters</i> , 2002, 81, 3549-3551.	1.5	47

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109	Increased ferroelastic domain mobility in ferroelectric thin films and its use in nano-patterned capacitors. <i>Nanotechnology</i> , 2006, 17, 3154-3159.	1.3	47
110	Optical properties of epitaxial BiFeO ₃ thin films grown on LaAlO ₃ . <i>Applied Physics Letters</i> , 2015, 106, 012908.	1.5	46
111	Nanoscale switching behavior of epitaxial SrBi ₂ Ta ₂ O ₉ films deposited by pulsed laser deposition. <i>Applied Physics Letters</i> , 2000, 76, 106-108.	1.5	45
112	GaAs on Si heterostructures obtained by He and/or H implantation and direct wafer bonding. <i>Journal of Applied Physics</i> , 2003, 94, 7820.	1.1	45
113	Polarization reversal and capacitance-voltage characteristic of epitaxial Pb(Zr,Ti)O ₃ layers. <i>Applied Physics Letters</i> , 2005, 86, 192902.	1.5	45
114	Direct observation of polar tweed in LaAlO ₃ . <i>Scientific Reports</i> , 2016, 6, 27193.	1.6	45
115	Atomically Smooth p-Doped Silicon Nanowires Catalyzed by Aluminum at Low Temperature. <i>ACS Nano</i> , 2011, 5, 1313-1320.	7.3	44
116	Ferroelectric Lead Zirconate Titanate and Barium Titanate Nanotubes. <i>Integrated Ferroelectrics</i> , 2003, 59, 1513-1520.	0.3	42
117	Growth, structure, and properties of all-epitaxial ferroelectric (Bi,La) ₄ Ti ₃ O ₁₂ •Pb(Zr _{0.4} Ti _{0.6})O ₃ •(Bi,La) ₄ Ti ₃ O ₁₂ trilayered thin films on SrRuO ₃ -covered SrTiO ₃ (011) substrates. <i>Applied Physics Letters</i> , 2005, 86, 082906.	1.5	42
118	Effects on surface morphology of epitaxial Y ₂ O ₃ layers on Si (001) after postgrowth annealing. <i>Thin Solid Films</i> , 2004, 468, 303-309.	0.8	41
119	High-resolution electron energy-loss spectroscopy of BaTiO ₃ •SrTiO ₃ multilayers. <i>Physical Review B</i> , 2005, 71, .	1.1	41
120	Switching kinetics in epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	41
121	Fabrication and characterization of extended arrays of Ag ₂ S/Ag nanodot resistive switches. <i>Applied Physics Letters</i> , 2011, 98, 243109.	1.5	41
122	Elastic coupling between 90° twin walls and interfacial dislocations in epitaxial ferroelectric perovskites: A quantitative high-resolution transmission electron microscopy study. <i>Physical Review B</i> , 2005, 72, .	1.1	40
123	Finite element method calculations of ZnO nanowires for nanogenerators. <i>Applied Physics Letters</i> , 2008, 92, 122904.	1.5	40
124	Interfacial strain effects in epitaxial multiferroic heterostructures of PbZr _x Ti _{1-x} O ₃ •La _{0.7} Sr _{0.3} MnO ₃ grown by pulsed-laser deposition. <i>Applied Physics Letters</i> , 2008, 92, 152506.	1.5	38
125	Magnetite (Fe ₃ O ₄): a new variant of relaxor multiferroic?. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 086007.	0.7	38
126	Four-state ferroelectric spin-valve. <i>Scientific Reports</i> , 2015, 5, 9749.	1.6	38

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127	Structure and properties of epitaxial ferroelectric $\text{PbZr}_{0.4}\text{Ti}_{0.6}\text{O}_3/\text{PbZr}_{0.6}\text{Ti}_{0.4}\text{O}_3$ superlattices grown on SrTiO_3 (001) by pulsed laser deposition. <i>Applied Physics Letters</i> , 2007, 90, 072909.	1.5	37
128	Studies of the Room-Temperature Multiferroic $\text{Pb}(\text{Fe}_{0.5}\text{Ta}_{0.5})_{0.4}(\text{Zr}_{0.53}\text{Ti}_{0.47})_{0.6}\text{O}_3$: Resonant Ultrasound Spectroscopy, Dielectric, and Magnetic Phenomena. <i>Advanced Functional Materials</i> , 2014, 24, 2993-3002.	7.8	37
129	Higher-order electromechanical response of thin films by contact resonance piezoresponse force microscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 2309-2322.	1.7	36
130	Polarization fatigue and frequency-dependent recovery in $\text{Pb}(\text{Zr,Ti})\text{O}_3$ epitaxial thin films with SrRuO_3 electrodes. <i>Applied Physics Letters</i> , 2006, 88, 102908.	1.5	36
131	Space charge contribution to the apparent enhancement of polarization in ferroelectric bilayers and multilayers. <i>Applied Physics Letters</i> , 2007, 91, 022911.	1.5	36
132	Low-temperature layer splitting of (100) GaAs by He+H coimplantation and direct wafer bonding. <i>Applied Physics Letters</i> , 2003, 82, 2413-2415.	1.5	35
133	Topological domain states and magnetoelectric properties in multiferroic nanostructures. <i>National Science Review</i> , 2019, 6, 684-702.	4.6	35
134	Electronic Origin and Tailoring of Photovoltaic Effect in BiFeO_3 Single Crystals. <i>Advanced Electronic Materials</i> , 2015, 1, 1500139.	2.6	34
135	Ferroelectric-semiconductor heterostructures obtained by direct wafer bonding. <i>Applied Physics Letters</i> , 1997, 70, 3416-3418.	1.5	32
136	Low temperature GaAs/Si direct wafer bonding. <i>Electronics Letters</i> , 2000, 36, 677.	0.5	32
137	Piezoresponse scanning force microscopy: What quantitative information can we really get out of piezoresponse measurements on ferroelectric thin films. <i>Integrated Ferroelectrics</i> , 2001, 38, 23-29.	0.3	32
138	Well-ordered large-area arrays of epitaxial ferroelectric $(\text{Bi,Lu})_4\text{Ti}_3\text{O}_{12}$ nanostructures fabricated by gold nanotube-membrane lithography. <i>Applied Physics Letters</i> , 2005, 86, 152906.	1.5	32
139	Piezoelectric response hysteresis in the presence of ferroelastic 90° domain walls. <i>Applied Physics Letters</i> , 2007, 90, 012908.	1.5	32
140	Nanodomains and nanometer-scale disorder in multiferroic bismuth ferrite single crystals. <i>Acta Materialia</i> , 2015, 82, 356-368.	3.8	32
141	Photovoltaic and flexible deep ultraviolet wavelength detector based on novel $\text{In}^2\text{-Ga}_2\text{O}_3/\text{muscovite}$ heteroepitaxy. <i>Scientific Reports</i> , 2020, 10, 16098.	1.6	32
142	Thickness effect in $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ ferroelectric thin films grown by pulsed laser deposition. <i>Applied Surface Science</i> , 2006, 252, 4549-4552.	3.1	31
143	Ferroelectric incommensurate spin crystals. <i>Nature</i> , 2022, 602, 240-244.	13.7	30
144	Capacitance tuning in antiferroelectric-ferroelectric $\text{PbZr}_{0.3}\text{Ti}_{0.7}\text{O}_3$ epitaxial multilayers. <i>New Journal of Physics</i> , 2008, 10, 013003.	1.2	29

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145	Origin of tunnel electroresistance effect in PbTiO_3 -based multiferroic tunnel junctions. <i>Physical Review B</i> , 2015, 92, .	1.1	29
146	Optical properties of epitaxial BiFeO_3 thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 1217-1220.	1.1	28
147	Strain-gradient mediated local conduction in strained bismuth ferrite films. <i>Nature Communications</i> , 2019, 10, 2791.	5.8	28
148	Dual gate control of bulk transport and magnetism in the spin-orbit insulator SrIr_2O_4 . <i>Physical Review B</i> , 2015, 91, .	1.1	27
149	Oxidation behavior of AlN substrate at low temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2002, 13, 131-137.	1.1	26
150	Wafer-scale integration of GaAs optoelectronic devices with standard Si integrated circuits using a low-temperature bonding procedure. <i>Applied Physics Letters</i> , 2002, 81, 5099-5101.	1.5	24
151	Strain propagation in nanolayered perovskites probed by ultrafast x-ray diffraction. <i>Physical Review B</i> , 2006, 73, .	1.1	24
152	Nanodomain faceting in ferroelectrics. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 425222.	0.7	24
153	BaTiO_3 ferrite composites with magnetocapacitance and hard/soft magnetic properties. <i>Phase Transitions</i> , 2013, 86, 670-680.	0.6	24
154	Tailoring the interfacial magnetic anisotropy in multiferroic field-effect devices. <i>Physical Review B</i> , 2014, 90, .	1.1	24
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