

# James F Scott

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/952686/publications.pdf>

Version: 2024-02-01

259  
papers

33,480  
citations

19657

61  
h-index

3650

180  
g-index

279  
all docs

279  
docs citations

279  
times ranked

17880  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiferroic and magnetoelectric materials. Nature, 2006, 442, 759-765.	27.8	7,032
2	Ferroelectric Memories. Science, 1989, 246, 1400-1405.	12.6	3,585
3	Applications of Modern Ferroelectrics. Science, 2007, 315, 954-959.	12.6	2,608
4	Physics of thin-film ferroelectric oxides. Reviews of Modern Physics, 2005, 77, 1083-1130.	45.6	1,932
5	Giant Electrocaloric Effect in Thin-Film PbZr <sub>0.95</sub> Ti <sub>0.05</sub> O <sub>3</sub> . Science, 2006, 311, 1270-1271.	12.6	1,424
6	Ferroelectric Memories. Springer Series in Advanced Microelectronics, 2000, , .	0.3	1,264
7	The Physics of Ferroelectric Memories. Physics Today, 1998, 51, 22-27.	0.3	1,147
8	Domain wall nanoelectronics. Reviews of Modern Physics, 2012, 84, 119-156.	45.6	1,018
9	Observation of polar vortices in oxide superlattices. Nature, 2016, 530, 198-201.	27.8	682
10	Observation of a phase transition in multiferroic BiMnO <sub>3</sub> . Nature, 2007, 445, 182-185.	27.8	604
11	Electrocaloric Materials. Annual Review of Materials Research, 2011, 41, 229-240.	9.3	476
12	Switching kinetics of lead zirconate titanate submicron thin-film memories. Journal of Applied Physics, 1988, 64, 787-792.	2.5	423
13	Ferroelectrics go bananas. Journal of Physics Condensed Matter, 2008, 20, 021001.	1.8	417
14	Spin-Canting-Induced Improper Ferroelectricity and Spontaneous Magnetization Reversal in SmFeO <sub>3</sub> . Physical Review Letters, 2011, 107, 117201.	7.8	343
15	Applications of magnetoelectrics. Journal of Materials Chemistry, 2012, 22, 4567.	6.7	308
16	Spin-glass transition in single-crystal BiFeO <sub>3</sub> . Physical Review B, 2008, 77, 040405.	3.2	270
17	Fractal Dimension and Size Scaling of Domains in Thin Films of Multiferroic BiFeO <sub>3</sub> . Physical Review Letters, 2008, 100, 027602.	7.8	270
18	Giant Negative Electrocaloric Effect in Antiferroelectric La-Doped Pb(ZrTi)O <sub>3</sub> Thin Films Near Room Temperature. Advanced Materials, 2015, 27, 3165-3169.	21.0	241

#	ARTICLE	IF	CITATIONS
19	Room-temperature multiferroic magnetoelectrics. <i>NPG Asia Materials</i> , 2013, 5, e72-e72.	7.9	238
20	Ferroelectric memories. <i>Ferroelectrics</i> , 1990, 104, 241-256.	0.6	229
21	Direct and indirect measurements on electrocaloric effect: Recent developments and perspectives. <i>Applied Physics Reviews</i> , 2016, 3, 031102.	11.3	206
22	Radiation effects on ferroelectric thin-film memories: Retention failure mechanisms. <i>Journal of Applied Physics</i> , 1989, 66, 1444-1453.	2.5	202
23	Investigation of the electrocaloric effect in a $\text{PbMg}_{2/3}\text{Nb}_{1/3}\text{O}_3$ - $\text{PbTiO}_3$ relaxor thin film. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	194
24	Temporary formation of highly conducting domain walls for non-destructive read-out of ferroelectric domain-wall resistance switching memories. <i>Nature Materials</i> , 2018, 17, 49-56.	27.5	188
25	Influence of mechanical boundary conditions on the electrocaloric properties of ferroelectric thin films. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	185
26	Structure, dielectric, ferroelectric, and energy density properties of $(1-x)\text{BiZr}_2\text{Ti}_3\text{O}_{12}$ ceramic capacitors for energy storage applications. <i>Journal of Materials Science</i> , 2013, 48, 2151-2157.	3.7	175
27	Polarization relaxation kinetics and $180^\circ$ domain wall dynamics in ferroelectric thin films. <i>Physical Review B</i> , 2001, 65, .	3.2	174
28	Giant polarization in super-tetragonal thin films through interphase strain. <i>Science</i> , 2018, 361, 494-497.	12.6	173
29	Domains in Ferroelectric Nanodots. <i>Nano Letters</i> , 2009, 9, 3359-3364.	9.1	170
30	Vortex ferroelectric domains. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 342201.	1.8	155
31	Orientation dependence of ferroelectric properties of pulsed-laser-ablated $\text{Bi}_{4-x}\text{Nd}_x\text{Ti}_3\text{O}_{12}$ films. <i>Applied Physics Letters</i> , 2003, 83, 2414-2416.	3.3	154
32	Magnetic switching of ferroelectric domains at room temperature in multiferroic PZTFT. <i>Nature Communications</i> , 2013, 4, 1534.	12.8	147
33	Domains within Domains and Walls within Walls: Evidence for Polar Domains in Cryogenic $\text{SrTiO}_3$ . <i>Physical Review Letters</i> , 2013, 111, 247603.	7.8	145
34	Landau theory of domain wall magnetoelectricity. <i>Physical Review B</i> , 2010, 81, .	3.2	131
35	Stability of Polar Vortex Lattice in Ferroelectric Superlattices. <i>Nano Letters</i> , 2017, 17, 2246-2252.	9.1	131
36	Domain Wall Damping and Elastic Softening in $\text{SrTiO}_3$ : Evidence for Polar Twin Walls. <i>Physical Review Letters</i> , 2012, 109, 187601.	7.8	118

#	ARTICLE	IF	CITATIONS
37	Flux Closure Vortexlike Domain Structures in Ferroelectric Thin Films. <i>Physical Review Letters</i> , 2010, 104, 207602.	7.8	116
38	Symmetries and multiferroic properties of novel room-temperature magnetoelectrics: Lead iron tantalate $\leftrightarrow$ lead zirconate titanate (PFT/PZT). <i>AIP Advances</i> , 2011, 1, .	1.3	110
39	Raman spectroscopy of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> . <i>Ferroelectrics, Letters Section</i> , 1986, 6, 147-152.	1.0	109
40	Switching kinetics in KNO <sub>3</sub> ferroelectric thin film memories. <i>Journal of Applied Physics</i> , 1987, 61, 5467-5470.	2.5	109
41	Room-temperature single phase multiferroic magnetoelectrics: Pb(Fe, M) <sub>x</sub> (Zr, Ti) <sub>(1-x)</sub> O <sub>3</sub> [M = Ta, Nb]. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	105
42	Is CdCr <sub>2</sub> S <sub>4</sub> a multiferroic relaxor?. <i>Nature</i> , 2007, 448, E4-E5.	27.8	101
43	Correlation of dielectric, electrical and magnetic properties near the magnetic phase transition temperature of cobalt zinc ferrite. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 210-218.	2.8	96
44	Ferroelectric domain wall memory with embedded selector realized in LiNbO <sub>3</sub> single crystals integrated on Si wafers. <i>Nature Materials</i> , 2020, 19, 1188-1194.	27.5	92
45	The $\lambda$ Transition in BiFeO <sub>3</sub> : A Powder Neutron Diffraction Study. <i>Advanced Functional Materials</i> , 2010, 20, 2116-2123.	14.9	90
46	Multiferroic magnetoelectric fluorides: why are there so many magnetic ferroelectrics?. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 113202.	1.8	89
47	Raman spectroscopy of single-domain multiferroic $\text{BiFeO}_3$ . <i>Physical Review B</i> , 2010, 81, .	3.2	88
48	Giant Room-Temperature Elastocaloric Effect in Ferroelectric Ultrathin Films. <i>Advanced Materials</i> , 2014, 26, 6132-6137.	21.0	86
49	Prominent electrochromism through vacancy-order melting in a complex oxide. <i>Nature Communications</i> , 2012, 3, 799.	12.8	85
50	Multiferroic Pb(Fe <sub>0.66</sub> W <sub>0.33</sub> ) <sub>0.80</sub> Ti <sub>0.20</sub> O <sub>3</sub> thin films: A room-temperature relaxor ferroelectric and weak ferromagnetic. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	81
51	Dielectric anomalies due to grain boundary conduction in chemically substituted BiFeO <sub>3</sub> . <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	78
52	Magnetic control of large room-temperature polarization. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 382204.	1.8	77
53	Wall thickness dependence of the scaling law for ferroic stripe domains. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 022201.	1.8	76
54	Ferroelectric polarization switching with a remarkably high activation energy in orthorhombic GaFeO <sub>3</sub> thin films. <i>NPG Asia Materials</i> , 2016, 8, e242-e242.	7.9	72

#	ARTICLE	IF	CITATIONS
55	Maxwell-Wagner space charge effects on the Pb(Zr,Ti)O <sub>3</sub> ∕CoFe <sub>2</sub> O <sub>4</sub> multilayers. Applied Physics Letters, 2007, 91, .	3.3	71
56	Studies of Phase Transitions and Magnetoelectric Coupling in PFN-CZFO Multiferroic Composites. Journal of Physical Chemistry C, 2016, 120, 1936-1944.	3.1	71
57	Analysis of quasielastic light scattering inLiNbO <sub>3</sub> nearTC. Physical Review B, 1985, 32, 6787-6792.	3.2	70
58	Surface phase transitions in BiFeO <sub>3</sub> below room temperature. Physical Review B, 2012, 85, .	3.2	70
59	Raman spectroscopy of submicron KNO <sub>3</sub> films. II. Fatigue and space charge effects. Journal of Applied Physics, 1988, 64, 1547-1551.	2.5	66
60	Observation of spin-glass-like behavior in SrRuO <sub>3</sub> thin films. Physical Review B, 2009, 79, .	3.2	64
61	Thickness independence of true phase transition temperatures in barium strontium titanate films. Journal of Applied Physics, 2004, 96, 555-562.	2.5	63
62	Switching Dynamics in Ferroelectric Thin Films: An Experimental Survey. Integrated Ferroelectrics, 2002, 48, 59-68.	0.7	61
63	Mesoscopic model of a system possessing both relaxor ferroelectric and relaxor ferromagnetic properties. Physical Review B, 2009, 79, .	3.2	61
64	Models for the frequency dependence of coercive field and the size dependence of remanent polarization in ferroelectric thin films. Integrated Ferroelectrics, 1996, 12, 71-81.	0.7	60
65	Subpicosecond Processes of Ferroelectric Domain Switching from Field and Temperature Experiments. Advanced Functional Materials, 2012, 22, 192-199.	14.9	59
66	The Nature of Magnetoelectric Coupling in Pb(Zr,Ti)O <sub>3</sub> ∕Pb(Fe,Ta)O <sub>3</sub> . Advanced Materials, 2015, 27, 6068-6073.	21.0	58
67	Negative differential resistivity in ferroelectric thin-film current-voltage relationships. Integrated Ferroelectrics, 1994, 4, 85-92.	0.7	57
68	High-field conduction in barium titanate. Applied Physics Letters, 2005, 86, 152903.	3.3	57
69	Some strategies for improving caloric responses with ferroelectrics. APL Materials, 2016, 4, 064109.	5.1	57
70	Phonon anomalies and phonon-spin coupling in oriented PbFe <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> . Physical Review B, 2016, 93, 104107.	3.2	54
71	Clock-model description of incommensurate ferroelectric films and of nematic-liquid-crystal films. Physical Review B, 1986, 34, 1815-1819.	3.2	52
72	Structural Phase Transitions in BiFeO <sub>3</sub> . Advanced Materials, 2010, 22, 2106-2107.	21.0	52

#	ARTICLE	IF	CITATIONS
73	Room temperature multiferroic properties of Pb(Fe <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> â€“Co <sub>0.65</sub> Zn <sub>0.35</sub> Fe <sub>2</sub> O <sub>4</sub> composites. Journal of Applied Physics, 2013, 114, .	2.5	52
74	Ferroelectric switching and scale invariant avalanches in $\text{BaTiO}_3$ . Physical Review Materials, 2019, 3, .	2.4	52
75	Phase transitions in ferroelectric thin films. Phase Transitions, 1991, 30, 107-110.	1.3	51
76	Landau Theory of Ferroelectric Domain Walls in Magnetoelectrics. Ferroelectrics, 2008, 375, 122-131.	0.6	51
77	Magnetic effects on dielectric and polarization behavior of multiferroic heterostructures. Applied Physics Letters, 2010, 96, 072904.	3.3	51
78	Effect of electrode resistance on dielectric and transport properties of multiferroic superlattice: A Impedance spectroscopy study. AIP Advances, 2012, 2, .	1.3	51
79	Soft modes in ferroelastic LaP <sub>5</sub> O <sub>14</sub> and NdP <sub>5</sub> O <sub>14</sub> . Solid State Communications, 1976, 18, 111-113.	1.9	50
80	Td10: Ferroelectric thin films in integrated microelectronic devices. Ferroelectrics, 1992, 133, 47-60.	0.6	49
81	Thickness dependence of D.C. leakage current in lead zirconate-titanate (PZT) memories. Ferroelectrics, 1992, 135, 163-168.	0.6	49
82	Perimeter effect in very small ferroelectrics. Applied Physics Letters, 2003, 82, 436-438.	3.3	49
83	Domains in three-dimensional ferroelectric nanostructures: theory and experiment. Journal of Physics Condensed Matter, 2007, 19, 132201.	1.8	47
84	In-plane strain control of the magnetic remanence and cation-charge redistribution in CoFe <sub>2</sub> O <sub>4</sub> thin film grown on a piezoelectric substrate. Physical Review B, 2010, 81, .	3.2	47
85	Phase transition and enhanced magneto-dielectric response in BiFeO <sub>3</sub> -DyMnO <sub>3</sub> multiferroics. Journal of Applied Physics, 2015, 117, .	2.5	45
86	Structural transformations and physical properties of $(\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3)_{1-x}(\text{BaTiO}_3)_x$ solid solutions near a morphotropic phase boundary. Journal of Physics Condensed Matter, 2019, 31, 075401.	1.8	43
87	Shape-induced phase transition of domain patterns in ferroelectric platelets. Physical Review B, 2011, 84, .	3.2	44
88	Self-Similar Nested Flux Closure Structures in a Tetragonal Ferroelectric. Nano Letters, 2013, 13, 2553-2557.	9.1	44
89	Local Electrical Imaging of Tetragonal Domains and Field-Induced Ferroelectric Twin Walls in Conducting $\text{SrTiO}_3$ . Physical Review Letters, 2016, 116, 257601.	7.8	43
90	Near-room temperature relaxor multiferroic. Applied Physics Letters, 2010, 97, .	3.3	42

#	ARTICLE	IF	CITATIONS
91	Manipulating Ferroelectric Domains in Nanostructures Under Electron Beams. Physical Review Letters, 2013, 111, 165702.	7.8	42
92	Hierarchical Domain Structure and Extremely Large Wall Current in Epitaxial BiFeO <sub>3</sub> Thin Films. Advanced Functional Materials, 2018, 28, 1801725.	14.9	41
93	Nanoscale ordering and multiferroic behavior in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_2\text{O}_{12}$ . Physical Review B, 2010, 82, .	3.2	39
94	Electric control of magnon frequencies and magnetic moment of bismuth ferrite thin films at room temperature. Applied Physics Letters, 2011, 99, 062504.	3.3	39
95	Anomalous change in leakage and displacement currents after electrical poling on lead-free ferroelectric ceramics. Applied Physics Letters, 2015, 107, .	3.3	39
96	Experimental evidence of electronic polarization in a family of photo-ferroelectrics. RSC Advances, 2017, 7, 12842-12855.	3.6	39
97	Light scattering study of phase transitions in ferroelectric tris-sarcosine calcium chloride and its brominated isomorphs. Ferroelectrics, 1981, 39, 1163-1166.	0.6	38
98	Lee et al. Reply. Physical Review Letters, 2012, 108, .	7.8	38
99	Exploring Vertex Interactions in Ferroelectric Flux-Closure Domains. Nano Letters, 2014, 14, 4230-4237.	9.1	38
100	Analysis of quasielastic light scattering in LiTaO <sub>3</sub> near TC. Physical Review B, 1986, 34, 1880-1883.	3.2	37
101	Process optimization and characterization of device worthy sol-gel based PZT for ferroelectric memories. Ferroelectrics, 1990, 112, 329-351.	0.6	37
102	Compositional engineering of BaTiO <sub>3</sub> /(Ba,Sr)TiO <sub>3</sub> ferroelectric superlattices. Journal of Applied Physics, 2013, 114, .	2.5	37
103	Depletion width in SrTiO <sub>3</sub> and Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> films. Ferroelectrics, 1999, 232, 25-34.	0.6	36
104	Skyrmion model of nano-domain nucleation in ferroelectrics and ferromagnets. Journal of Physics Condensed Matter, 2006, 18, L71-L79.	1.8	36
105	Control of domain configuration in artificial BaTiO <sub>3</sub> /(Ba,Sr)TiO <sub>3</sub> superlattices. Applied Physics Letters, 2012, 101, 162901.	3.2	36
106	Negative differential resistivity and positive temperature coefficient of resistivity effect in the diffusion-limited current of ferroelectric thin-film capacitors. Journal of Physics Condensed Matter, 2004, 16, L515-L521.	1.8	35
107	Nucleation, growth, and control of ferroelectric-ferroelastic domains in thin polycrystalline films. Physical Review B, 2012, 86, .	3.2	35
108	Photoluminescence and time-resolved spectroscopy in multiferroic BiFeO <sub>3</sub> : Effects of electric fields and sample aging. Applied Physics Letters, 2013, 102, 222901.	3.3	35

#	ARTICLE	IF	CITATIONS
109	Room temperature multiferroic effects in superlattice nanocapacitors. Applied Physics Letters, 2010, 97, 252902.	3.3	34
110	Phonon spectroscopy near phase transition temperatures in multiferroic $\text{BiFeO}_3$ thin films. Physical Review B, 2010, 81, .	3.2	34
111	Thickness dependent functional properties of $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3/\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ heterostructures. Journal of Applied Physics, 2013, 114, .	2.5	34
112	Towards multicaloric effect with ferroelectrics. Physical Review B, 2016, 94, .	3.2	33
113	Fabrication and characterization of the multiferroic birelaxor $\text{lead-iron-tungstate/lead-zirconate-titanate}$ . Journal of Applied Physics, 2010, 108, .	2.5	32
114	Ultrafast Switching in Avalanche-Driven Ferroelectrics by Supersonic Kink Movements. Advanced Functional Materials, 2017, 27, 1700367.	14.9	32
115	Magnon Raman spectroscopy and in-plane dielectric response in $\text{BiFeO}_3$ : Relation to the Polomska transition. Physical Review B, 2012, 85, .	3.2	31
116	Implementing Room-Temperature Multiferroism by Exploiting Hexagonal-Orthorhombic Morphotropic Phase Coexistence in $\text{LuFeO}_3$ Thin Films. Advanced Materials, 2016, 28, 7430-7435.	21.0	31
117	Ferroelectrics, multiferroics and artifacts: Lozenge-shaped hysteresis and things that go bump in the night. Materials Today, 2018, 21, 553-562.	14.2	31
118	Polarization switching characteristics of $\text{BiFeO}_3$ thin films epitaxially grown on Pt/MgO at a low temperature. Applied Physics Letters, 2009, 95, 242902.	3.3	30
119	Effect of thickness on dielectric, ferroelectric, and optical properties of Ni substituted $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ thin films. Journal of Applied Physics, 2015, 118, .	2.5	30
120	Weak ferromagnetism and ferroelectricity in $\text{K}_3\text{Fe}_5\text{F}_{15}$ . Journal of Applied Physics, 2008, 103, .	2.5	28
121	Switching of Ferroelectrics Without Domains. Advanced Materials, 2010, 22, 5315-5317.	21.0	28
122	Photovoltaic effect in a wide-area semiconductor-ferroelectric device. Applied Physics Letters, 2011, 99, .	3.3	28
123	In-plane dielectric and magnetoelectric studies of $\text{BiFeO}_3$ . Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1207-1212.	1.8	28
124	Prospects for Ferroelectrics: 2012-2022. ISRN Materials Science, 2013, 2013, 1-24.	1.0	28
125	Superdomain dynamics in ferroelectric-ferroelastic films: Switching, jamming, and relaxation. Applied Physics Reviews, 2017, 4, 041104.	11.3	28
126	Room-temperature relaxor ferroelectricity and photovoltaic effects in tin titanate directly deposited on a silicon substrate. Physical Review B, 2018, 97, .	3.2	28



#	ARTICLE	IF	CITATIONS
127	Non-Polar and Complementary Resistive Switching Characteristics in Graphene Oxide devices with Gold Nanoparticles: Diverse Approach for Device Fabrication. Scientific Reports, 2019, 9, 15103.	3.3	28
128	Hyper-Raman spectra and frequency dependence of soft mode damping in SrTiO <sub>3</sub> . Journal of Raman Spectroscopy, 1983, 14, 276-283.	2.5	27
129	Ferroelectric and photovoltaic properties of transition metal doped Pb(Zr <sub>0.14</sub> Ti <sub>0.56</sub> Ni <sub>0.30</sub> )O <sub>3-<math>\delta</math></sub> thin films. AIP Advances, 2014, 4, .	1.3	27
130	Raman spectroscopy of structural phase transitions in Ag <sub>26</sub> I <sub>18</sub> W <sub>4</sub> O <sub>16</sub> . Journal of Chemical Physics, 1978, 69, 4984-4989.	3.0	26
131	Acoustic-phonon dispersion at incommensurate phase transitions. Ferroelectrics, 1983, 47, 33-56.	0.6	26
132	Probing the ferroelectric phase transition through Raman spectroscopy in Pb(Fe <sub>2</sub> W <sub>1</sub> ) <sub>2</sub> Ti <sub>2</sub> O <sub>3</sub> thin films. Applied Physics Letters, 2007, 90, 262907.	3.3	26
133	New cryogenic phase transitions in SrSnO <sub>3</sub> . Journal of Physics Condensed Matter, 2010, 22, 095901.	1.8	26
134	Charge control of antiferromagnetism at PbZr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> /La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> interface. Applied Physics Letters, 2014, 104, .	3.3	26
135	Unipolar resistive switching in planar Pt/BiFeO <sub>3</sub> /Pt structure. AIP Advances, 2015, 5, .	1.3	25
136	High-Symmetry Polarization Domains in Low-Symmetry Ferroelectrics. Nano Letters, 2014, 14, 6931-6935.	9.1	24
137	A review of ferroelectric switching. Ferroelectrics, 2016, 503, 117-132.	0.6	24
138	Elastic and Anelastic Properties of Ferroelectric SrTi <sub>18</sub> O <sub>3</sub> in the kHz-MHz Regime. Physical Review Letters, 2011, 106, 105502.	7.8	23
139	Palladium-based ferroelectrics and multiferroics: Theory and experiment. Physical Review B, 2017, 95, .	3.2	23
140	Brillouin spectroscopy of the incommensurate-commensurate phase transition in barium sodium niobate. Phase Transitions, 1986, 6, 175-233.	1.3	22
141	Quantum criticality in a uniaxial organic ferroelectric. Journal of Physics Condensed Matter, 2015, 27, 395901.	1.8	22
142	Elastic and magnetoelastic relaxation behaviour of multiferroic (ferromagnetic + ferroelectric +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 Condensed Matter, 2015, 27, 285901.	1.8	22
143	Evidence of strong magneto-dielectric coupling and enhanced electrical insulation at room temperature in Nd and Mn co-doped bismuth ferrite. Journal of Applied Physics, 2017, 122, .	2.5	22
144	Study of physical properties of integrated ferroelectric/ferromagnetic heterostructures. Journal of Applied Physics, 2010, 107, .	2.5	21

#	ARTICLE	IF	CITATIONS
145	Electrical studies of Barkhausen switching noise in ferroelectric PZT: Critical exponents and temperature dependence. <i>Physical Review Materials</i> , 2019, 3, .	2.4	21
146	Studies of optical damage in lithium niobate in the presence of thermal gradients. <i>Ferroelectrics</i> , 1985, 64, 215-219.	0.6	20
147	New phase transitions in ceramic $\text{SrSnO}_3$ : Raman scattering analysis and differential thermal analysis. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 055210.	1.8	20
148	There's no place like Ohm: conduction in oxide thin films. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 142202.	1.8	20
149	Polarization vortex domains induced by switching electric field in ferroelectric films with circular electrodes. <i>Physical Review B</i> , 2014, 90, .	3.2	20
150	Raman spectra of high-temperature incommensurate and superlattice phases of $\text{K}_2\text{Fe}_4$ . <i>Ferroelectrics</i> , 1987, 74, 309-316.	0.6	19
151	Effects of poling, and implications for metastable phase behavior in barium strontium titanate thin film capacitors. <i>Applied Physics Letters</i> , 2004, 85, 5010-5012.	3.3	19
152	Perturbed polariton spectra in optically damaged $\text{LiNbO}_3$ . <i>Ferroelectrics, Letters Section</i> , 1985, 3, 89-96.	1.0	18
153	Raman spectroscopy and dielectric Studies of multiple phase transitions in $\text{ZnO:Ni}$ . <i>Applied Physics Letters</i> , 2008, 92, .	3.3	18
154	Searching for new ferroelectrics and multiferroics: A user's point of view. <i>Npj Computational Materials</i> , 2015, 1, .	8.7	18
155	Non-equilibrium defects and the statics and dynamics of incommensurate crystals. <i>Ferroelectrics</i> , 1986, 66, 11-23.	0.6	17
156	Temporal dependence of thermal self-focusing in ferroelectric $\text{Ba}_2\text{NaNb}_5\text{O}_{15}$ and $\text{Ce}_3:\text{Sr}_x\text{Ba}_{1-x}\text{Nb}_2\text{O}_6$ . <i>Ferroelectrics</i> , 1991, 120, 115-129.	0.6	17
157	Optical bistability in lead magnesium niobate ceramics: An integrated photonic flow-rate/pressure gauge based upon thermal focussing and convection. <i>Integrated Ferroelectrics</i> , 1992, 1, 71-88.	0.7	17
158	Magnetic properties of multiferroic $\text{K}_3\text{Cr}_2\text{Fe}_3\text{F}_{15}$ . <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	17
159	Influence of epitaxial strain on elastocaloric effect in ferroelectric thin films. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	17
160	Lead palladium titanate: A room-temperature multiferroic. <i>Physical Review B</i> , 2017, 96, .	3.2	17
161	Positive temperature coefficient of resistivity and negative differential resistivity in lead iron tungstate-lead zirconate titanate. <i>Applied Physics Letters</i> , 2009, 94, 212903.	3.3	16
162	Leading the Way to Lead-Free. <i>ChemPhysChem</i> , 2010, 11, 341-343.	2.1	16

#	ARTICLE	IF	CITATIONS
163	Some current problems in perovskite nano-ferroelectrics and multiferroics: kinetically-limited systems of finite lateral size. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 036001.	6.1	16
164	On the Theory of Ferroelectric Susceptibilities. <i>Journal of the Physical Society of Japan</i> , 1989, 58, 4487-4490.	1.6	15
165	Ferroelectric PMN photonic sensors: Adiabatic response. <i>Integrated Ferroelectrics</i> , 1993, 3, 69-80.	0.7	15
166	Lanthanum Gadolinium Oxide: A New Electronic Device Material for CMOS Logic and Memory Devices. <i>Materials</i> , 2014, 7, 2669-2696.	2.9	15
167	Nano- $\epsilon$ Domain Pinning in Ferroelastic $\epsilon$ -Ferroelectrics by Extended Structural Defects. <i>Advanced Functional Materials</i> , 2014, 24, 5567-5574.	14.9	15
168	Tin titanate – the hunt for a new ferroelectric perovskite. <i>Reports on Progress in Physics</i> , 2019, 82, 092501.	20.1	15
169	Magnetic control of ferroelectric interfaces. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 202203.	1.8	14
170	Self-Assembled Highly Uniform ZnO Submicrometer Rods on Metal Grid Grown by Vapor-Liquid-Solid Method. <i>Crystal Growth and Design</i> , 2011, 11, 3642-3647.	3.0	14
171	Origin of ferroelectricity in orthorhombic $\text{LuFeO}_3$ . <i>Physical Review B</i> , 2019, 100, .	3.2	14
172	Electron paramagnetic resonance and Mössbauer study of antiferromagnetic $\text{K}_3\text{Cu}_3\text{Fe}_2\text{F}_{15}$ . <i>Journal of Applied Physics</i> , 2009, 106, 023924.	2.5	13
173	90-degree polarization switching in $\text{BaTiO}_3$ crystals without domain wall motion. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	13
174	Advanced high-k gate dielectric amorphous $\text{LaGdO}_3$ gated metal-oxide-semiconductor devices with sub-nanometer equivalent oxide thickness. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	13
175	Properties of the new electronic device material $\text{LaGdO}_3$ . <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 131-139.	1.5	13
176	A quasielastic light scattering study of the $1q$ to $2q$ transition within the incommensurate phase of $\text{Ba}_2\text{NaNb}_5\text{O}_{15}$ . <i>Journal of Physics Condensed Matter</i> , 1990, 2, 2465-2471.	1.8	12
177	Studies of incommensurate barium sodium niobate. <i>Ferroelectrics</i> , 1990, 104, 85-96.	0.6	12
178	Subpicosecond Domain Switching in Discrete Regions of $\text{Pb}(\text{Zr}_{0.35}\text{Ti}_{0.65})\text{O}_3$ Thick Films. <i>Advanced Functional Materials</i> , 2012, 22, 2148-2153.	14.9	12
179	Flexoelectric spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 331001.	1.8	12
180	Advanced high-k dielectric amorphous $\text{LaGdO}_3$ based high density metal-insulator-metal capacitors with sub-nanometer capacitance equivalent thickness. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	12

#	ARTICLE	IF	CITATIONS
181	Dead layer thickness estimation at the ferroelectric film-metal interface in PZT. Applied Physics Letters, 2019, 114, .	3.3	12
182	Softening behavior of the ferroelectric $A_{1-x}B_x$ near the Curie temperature. Physical Review B, 2009, 80, .	3.2	11
183	Phase diagram and phase transitions in ferroelectric trisarcosine calcium chloride and its brominated isomorphs. Physical Review B, 2011, 83, .	3.2	11
184	Cylinder stress in nanostructures: effect on domains in nanowires, nanotubes, and nano-disks. Journal of Physics Condensed Matter, 2014, 26, 212202.	1.8	11
185	Phase Transitions in the Brominated Ferroelectric Trisarcosine Calcium Chloride. Advanced Materials, 2014, 26, 3860-3866.	21.0	11
186	Quantum percolation phase transition and magnetoelectric dipole glass in hexagonal ferrites. Physical Review B, 2017, 96, .	3.2	11
187	Elastic and anelastic relaxation behaviour of perovskite multiferroics II: $PbZr_{0.53}Ti_{0.47}O_3$ (PZT) $\hat{=}$ $PbFe_{0.5}Ta_{0.5}O_3$ (PFT). Journal of Materials Science, 2017, 52, 285-304.	3.7	11
188	Non-Ohmic Variable-Range Hopping and Resistive Switching in $SrTiO_3$ Domain Walls. Physical Review Letters, 2020, 124, 146601.	7.8	11
189	Nanodomain patterns in ultra-tetragonal lead titanate ( $PbTiO_3$ ). Applied Physics Letters, 2020, 116, .	3.3	11
190	The role of defects in ferroelectric phase transitions. Ferroelectrics, 1981, 36, 375-378.	0.6	10
191	Low temperature properties of incommensurate barium sodium niobate. Ferroelectrics, 1991, 117, 63-75.	0.6	10
192	Theoretical models of ferroelectric-photonic sensors. Integrated Ferroelectrics, 1994, 5, 1-11.	0.7	10
193	Biferroic relaxors. Applied Physics Letters, 2011, 99, 042907.	3.3	10
194	Giant Dielectric Permittivity in Ferroelectric Thin Films: Domain Wall Ping Pong. Scientific Reports, 2015, 5, 14618.	3.3	10
195	Thermal focusing in ferroelectrics near $t_c$ : Effect of conjugate electric fields. Ferroelectrics, 1991, 123, 1-10.	0.6	9
196	Thermal focussing and optical bistability in ferroelectrics. Ferroelectrics, 1993, 143, 149-161.	0.6	9
197	The perfect soft mode: giant phonon instability in a ferroelectric. Journal of Physics Condensed Matter, 2013, 25, 212201.	1.8	9
198	Faceting oscillations in nano-ferroelectrics. Applied Physics Letters, 2014, 105, .	3.3	9

#	ARTICLE	IF	CITATIONS
199	Electron-beam driven relaxation oscillations in ferroelectric nanodisks. Applied Physics Letters, 2015, 107, .	3.3	9
200	Ferrielectricity in the metal-organic ferroelectric tris-sarcosine calcium chloride. Physical Review B, 2017, 95, .	3.2	9
201	Optical, dielectric and magnetic studies of phase transitions in BaMnF <sub>4</sub> . Ferroelectrics, 1985, 63, 127-134.	0.6	8
202	Fractal Dimensions in Switching Kinetics of Ferroelectrics. Ferroelectrics, 2007, 349, 157-162.	0.6	8
203	Holmium hafnate: An emerging electronic device material. Applied Physics Letters, 2015, 106, .	3.3	8
204	Hydrodynamics of domain walls in ferroelectrics and multiferroics: Impact on memory devices. Applied Physics Letters, 2016, 109, .	3.3	8
205	Effect of off-center ion substitution in morphotropic lead zirconate titanate composition. Journal of Applied Physics, 2017, 121, 194102.	2.5	8
206	Studies of Multiferroic Palladium Perovskites. Scientific Reports, 2019, 9, 1685.	3.3	8
207	Room-temperature large magnetoelectricity in a transition metal doped ferroelectric perovskite. Physical Review B, 2021, 104, .	3.2	8
208	Raman scattering investigation of the monoclinic to orthorhombic phase transition in TbP5O14. Journal of Raman Spectroscopy, 1978, 7, 41-42.	2.5	7
209	Raman intensities near second-order transitions. Part II-tris-(sarcosine)calcium chloride. Journal of Raman Spectroscopy, 1990, 21, 761-763.	2.5	7
210	Use of the thermal lens effect at TC= 855K in Ba2NaNb5O15to measure order parameter evolution. Ferroelectrics, 1991, 117, 21-25.	0.6	7
211	Investigation on Room Temperature Multiferroic Bi-Relaxor. Integrated Ferroelectrics, 2011, 131, 110-118.	0.7	7
212	Magnetism in multiferroic Pb <sub>5</sub> Cr <sub>3</sub> F <sub>3</sub> Si:STiO3-Al2O3-Si:SrTiO3 multi-dielectric architecture for metal-insulator-metal capacitor applications. Applied Physics Letters, 2016, 109, 212901.	3.2	7
213	Electrical studies of Barkhausen switching noise in ferroelectric lead zirconate titanate (PZT) and BaTiO <sub>3</sub> : critical exponents and temperature-dependence. Journal of Physics Condensed Matter, 2020, 32, 055403.	3.3	7
214	Polaritons in complex bulk media. Journal of Raman Spectroscopy, 1984, 15, 60-66.	1.8	7
215	Brillouin study of the hexagonal-orthorhombic phase transition in LiKSO4. Journal of Raman Spectroscopy, 1984, 15, 347-349.	2.5	6
216			

#	ARTICLE	IF	CITATIONS
217	Evaluation of critical exponents from raman intensities. Phase Transitions, 1991, 32, 235-239.	1.3	6
218	Statistical theory of fatigue in ferroelectric devices. Integrated Ferroelectrics, 1992, 1, 305-322.	0.7	6
219	Critical exponents for isosymmetric phase transitions in BiFeO <sub>3</sub> . Journal of Physics Condensed Matter, 2011, 23, 022202.	1.8	6
220	Enhanced tunneling electroresistance in Pt/PZT/LSMO ferroelectric tunnel junctions in presence of magnetic field. Integrated Ferroelectrics, 2016, 174, 174-185.	0.7	6
221	The relationship between the ferroelectric phase transition near $T_c = 235$ K in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> and High- $T_c$ superconductivity: Comparison with the polaron theory of pardee and mahan. Phase Transitions, 1990, 22, 69-78.	1.3	5
222	Addendum to "Multiferroic fluorides". Journal of Physics Condensed Matter, 2011, 23, 299401.	1.8	5
223	Overview on the Resistive Switching in TiO <sub>2</sub> Solid Electrolyte. Integrated Ferroelectrics, 2011, 124, 87-96.	0.7	5
224	Folding catastrophes due to viscosity in multiferroic domains: implications for room-temperature multiferroic switching. Journal of Physics Condensed Matter, 2015, 27, 492001.	1.8	5
225	Disorder driven structural and dielectric properties of silicon substituted strontium titanate. Journal of Applied Physics, 2015, 118, .	2.5	5
226	Nonequilibrium ferroelectric-ferroelastic 10 <sup>10</sup> nm nanodomains: wrinkles, period-doubling, and power-law relaxation. Journal of Physics Condensed Matter, 2017, 29, 304001.	1.8	5
227	Predictions of landau theory for magnetoelectric BaMnF <sub>4</sub> . Ferroelectrics, 1981, 36, 293-296.	0.6	4
228	Hysteresis behavior in Raman intensities in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-y</sub> -family superconductors between $T_c$ and $T_c^*$ and $T_c^*$ and $T_c^*$ = 234 K. Phase Transitions, 1990, 22, 151-155.	1.3	4
229	Comparison of the Electrical Properties of ZnO Thin Films on Different Substrates by Pulsed Laser Deposition. Integrated Ferroelectrics, 2012, 133, 9-14.	0.7	4
230	Processing and characterization of improved congruent lithium niobate. AIP Advances, 2018, 8, .	1.3	4
231	Ferroelectric Relaxor Quantum Crystals. Crystals, 2018, 8, 180.	2.2	4
232	Raman spectroscopy of the superionic conductor pyridinium silver iodide (C <sub>5</sub> H <sub>5</sub> NH) Ag <sub>5</sub> I <sub>6</sub> , in the ordered phase. Journal of Chemical Physics, 1981, 74, 3723-3725.	3.0	3
233	Optical phenomena in BaMnF <sub>4</sub> near its phase transition temperatures. Ferroelectrics, 1984, 56, 99-102.	0.6	3
234	Analysis of two-phonon resonances in and Raman spectroscopy of ammonium chloride. Journal of Raman Spectroscopy, 1985, 16, 315-318.	2.5	3

#	ARTICLE	IF	CITATIONS
235	Ferroelectric and Dielectric Properties of $\text{BaTiO}_3/\text{Ba}_{0.30}\text{Sr}_{0.70}\text{TiO}_3$ Superlattices. <i>Integrated Ferroelectrics</i> , 2012, 134, 139-145.	0.7	3
236	Antiferroelectric Thin Films: Giant Negative Electrocaloric Effect in Antiferroelectric La-Doped $\text{Pb}(\text{ZrTi})\text{O}_3$ Thin Films Near Room Temperature ( <i>Adv. Mater.</i> 20/2015). <i>Advanced Materials</i> , 2015, 27, 3164-3164.	21.0	3
237	Light scattering from soft modes in $\text{BaM}_2\text{F}_4$ : A new class of antiferroelectric. <i>Ferroelectrics</i> , 1974, 7, 279-281.	0.6	2
238	Brillouin spectroscopy of incommensurate $\text{Ba}_2\text{NaNb}_5\text{O}_{15}$ . <i>Ferroelectrics</i> , 1984, 53, 327-330.	0.6	2
239	Low temperature elastic and dielectric properties of incommensurate barium sodium niobate. <i>Ferroelectrics</i> , 1990, 112, 3-25.	0.6	2
240	Raman spectroscopy of coexisting phases in $\text{TbP}_5\text{O}_{14}$ . <i>Journal of Raman Spectroscopy</i> , 1991, 22, 43-44.	2.5	2
241	May-leonard oscillations in ferroelectric thermal lenses. <i>Integrated Ferroelectrics</i> , 1993, 3, 377-382.	0.7	2
242	Unipolar Resistive Switching and Associated Photoresponse in Sm doped $\text{BiFeO}_3$ Thin Film Grown by RF Sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1577, m1.	0.1	2
243	Contribution to Pyroelectricity from Domain Walls and Substrate Strain. <i>Ferroelectrics</i> , 2014, 472, 19-28.	0.6	2
244	Absence of critical exponents in ferroelectrics: experiments of Hilczer and theory of Levanyuk and Sigov. <i>Phase Transitions</i> , 2016, 89, 645-650.	1.3	2
245	Incommensurate-Commensurate Transition in the Geometric Ferroelectric $\text{LaTaO}_4$ . <i>Advanced Functional Materials</i> , 2020, 30, 2004667.	14.9	2
246	Structural phase transitions in the geometric ferroelectric $\text{LaTaO}_4$ . <i>Physical Review B</i> , 2021, 103, .	3.2	2
247	New results in incommensurate crystals: Kink diffusion and long-period lock-in phases. <i>Journal of Raman Spectroscopy</i> , 1986, 17, 151-154.	2.5	1
248	High-pressure phonon behavior in ammonium halides. <i>Journal of Raman Spectroscopy</i> , 1989, 20, 123-124.	2.5	1
249	Raman spectroscopy of low-temperature phases of $\text{RbAg}_4\text{I}_5$ . <i>Journal of Raman Spectroscopy</i> , 1989, 20, 277-278.	2.5	1
250	Domains Beyond Grain Boundaries: Domains Beyond the Grain Boundary ( <i>Adv. Funct. Mater.</i> 10/2011). <i>Advanced Functional Materials</i> , 2011, 21, 1746-1746.	14.9	1
251	Quantum critical points in ferroelectric relaxors: Stuffed tungsten bronze $\text{K}_3\text{Li}_2\text{Ta}_5\text{O}_{15}$ and lead pyrochlore ( $\text{Pb}_2\text{Nb}_2\text{O}_7$ ). <i>Physical Review Materials</i> , 2018, 2, .	2.4	1
252	Raman scattering from excitons and from photoexcited electrons and holes. <i>Journal of Raman Spectroscopy</i> , 1981, 10, 113-118.	2.5	0

#	ARTICLE	IF	CITATIONS
253	$\hat{\Gamma}$ M = 3 Spin-flip acceptor scattering and zerofield splittings. Journal of Raman Spectroscopy, 1985, 16, 322-325.	2.5	0
254	Tribute to Dr. George W. Taylor for his Vision and Leadership. Ferroelectrics, 2010, 400, xxvii-xxviii.	0.6	0
255	Room temperature novel multiferroic single phase materials: (PbFe <sub>0.5</sub> Ta <sub>0.5</sub> O <sub>3</sub> ) <sub>x</sub> -(PbZr <sub>0.53</sub> Ti <sub>0.47</sub> O <sub>3</sub> ) <sub>1-x</sub> (18/221), 2012, .		
256	Analysis of Leakage Currents through PLD Grown Ultrathin a-LaGdO <sub>3</sub> Based High-k Metal Gate Devices. Materials Research Society Symposia Proceedings, 2013, 1561, 1.	0.1	0
257	Properties of the new electronic device material LaGdO <sub>3</sub> (Phys. Status Solidi B 1/2014). Physica Status Solidi (B): Basic Research, 2014, 251, n/a-n/a.	1.5	0
258	Domain Walls: Ferroelectric Domain Wall Injection (Adv. Mater. 2/2014). Advanced Materials, 2014, 26, 348-348.	21.0	0
259	Ferroelectric Switching: Ultrafast Switching in Avalanche-Driven Ferroelectrics by Supersonic Kink Movements (Adv. Funct. Mater. 21/2017). Advanced Functional Materials, 2017, 27, .	14.9	0