

Roger W Whatmore

List of Publications by Year in descending order

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178
papers

8,591
citations

66343

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88
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all docs

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docs citations

181
times ranked

5293
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant Electrocaloric Effect in Thin-Film PbZr _{0.95} Ti _{0.05} O ₃ . Science, 2006, 311, 1270-1271.	12.6	1,424
2	Pyroelectric devices and materials. Reports on Progress in Physics, 1986, 49, 1335-1386.	20.1	903
3	Giant electrocaloric effect in the thin film relaxor ferroelectric 0.9PbMg _{1/3} Nb _{2/3} O ₃ –0.1PbTiO ₃ near room temperature. Applied Physics Letters, 2006, 89, 242912.	3.3	341
4	Ferroelectric materials for thermal IR detectors. Ferroelectrics, 1987, 76, 351-367.	0.6	203
5	Investigation of the electrocaloric effect in a PbMg _{2/3} Nb _{1/3} O ₃ -PbTiO ₃ relaxor thin film. Applied Physics Letters, 2009, 95, .	3.3	194
6	Pyroelectric ceramics and devices for thermal infra-red detection and imaging. Ferroelectrics, 1991, 118, 241-259.	0.6	164
7	A neutron diffraction investigation into the rhombohedral phases of the perovskite series. Journal of Physics Condensed Matter, 1998, 10, 6251-6269.	1.8	161
8	Next-generation electrocaloric and pyroelectric materials for solid-state electrothermal energy interconversion. MRS Bulletin, 2014, 39, 1099-1111.	3.5	155
9	Magnetic Field-Induced Ferroelectric Switching in Multiferroic Aurivillius Phase Thin Films at Room Temperature. Journal of the American Ceramic Society, 2013, 96, 2339-2357.	3.8	154
10	Low temperature crystallization of lead zirconate titanate thin films by a sol-gel method. Journal of Applied Physics, 1999, 85, 7355-7361.	2.5	153
11	Ferroelectric nanoparticles, wires and tubes: synthesis, characterisation and applications. Journal of Materials Chemistry C, 2013, 1, 2618.	5.5	153
12	Structural phase transitions in lead zirconate. Journal of Physics C: Solid State Physics, 1979, 12, 1505-1519.	1.5	141
13	Thin-film bulk acoustic resonators and filters using ZnO and lead-zirconium-titanate thin films. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 769-778.	4.6	139
14	Lithium tetraborate: a new temperature-compensated SAW substrate material. Electronics Letters, 1981, 17, 11.	1.0	138
15	Liquid-phase sintering of PZT ceramics. Journal of the European Ceramic Society, 2000, 20, 2039-2045.	5.7	136
16	A TEM study of ordering in the perovskite, Pb(Sc _{1/2} Ta _{1/2})O ₃ . Journal of Materials Science, 1986, 21, 4456-4462.	3.7	135
17	Improved ferroelectric and pyroelectric properties in Mn-doped lead zirconate titanate thin films. Journal of Applied Physics, 2003, 94, 5228.	2.5	119
18	Ferroelectric domain configurations in a modified-PZT ceramic. Journal of Materials Science, 1987, 22, 925-931.	3.7	118

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19	A Re-investigation of the Crystal Structure of the Perovskite PbZrO ₃ by X-ray and Neutron Diffraction. Acta Crystallographica Section B: Structural Science, 1997, 53, 135-142.	1.8	116
20	Sol-gel PZT and Mn-doped PZT thin films for pyroelectric applications. Journal Physics D: Applied Physics, 2001, 34, 2296-2301.	2.8	115
21	Structural development in the early stages of annealing of sol-gel prepared lead zirconate titanate thin films. Journal of Applied Physics, 1999, 86, 1662-1669.	2.5	102
22	Studies of the ferroelectric domain configuration and polarization of rhombohedral PZT ceramics. Journal of Physics Condensed Matter, 2000, 12, 323-337.	1.8	100
23	Tricritical behaviour in PbZr _x Ti _{1-x} O ₃ solid solutions. Journal of Physics C: Solid State Physics, 1978, 11, 3089-3102.	1.5	96
24	Lead scandium tantalate for thermal detector applications. Ferroelectrics, 1990, 106, 387-392.	0.6	95
25	Ferroelectric materials for thermal ir sensors state-of-the-art and perspectives. Ferroelectrics, 1990, 104, 269-283.	0.6	94
26	Direct imaging of travelling Rayleigh waves by stroboscopic X-ray topography. Nature, 1982, 299, 44-46.	27.8	90
27	PST thin films for electrocaloric coolers. Journal Physics D: Applied Physics, 2011, 44, 165407.	2.8	90
28	Title is missing!. Journal of Materials Science Letters, 1998, 17, 1157-1159.	0.5	78
29	Pyroelectric Arrays: Ceramics and Thin Films. Journal of Electroceramics, 2004, 13, 139-147.	2.0	70
30	A TEM and neutron diffraction study of the local structure in the rhombohedral phase of lead zirconate titanate. Journal of Physics Condensed Matter, 1998, 10, 1767-1786.	1.8	68
31	Injection and controlled motion of conducting domain walls in improper ferroelectric Cu-Cl boracite. Nature Communications, 2017, 8, 15105.	12.8	68
32	Pyroelectric ceramics in the lead zirconate-lead titanate-lead iron niobate system. Ferroelectrics, 1981, 35, 155-160.	0.6	66
33	Microstructural characterization of sol-gel lead-zirconate-titanate thin films. Journal of Applied Physics, 1998, 83, 2202-2208.	2.5	65
34	Investigation into the Crystal Structure of the Perovskite Lead Hafnate, PbHfO ₃ . Acta Crystallographica Section B: Structural Science, 1998, 54, 18-28.	1.8	64
35	Structure modification of $\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)_2\text{O}_7$ piezoelectric ceramic/polymer composites through dielectrophoresis. Journal Physics D: Applied Physics, 2005, 38, 175-182.	2.8	64
36	Nanoscale Ferroelectric and Piezoelectric Properties of Sb ₂ S ₃ Nanowire Arrays. Nano Letters, 2012, 12, 868-872.	9.1	61

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37	e31,fdetermination for PZT films using a conventional 'd33' meter. Journal Physics D: Applied Physics, 2001, 34, 1456-1460.	2.8	60
38	The growth of ferroelectric oxides by MOCVD. Ferroelectrics, 1989, 91, 181-192.	0.6	57
39	Pyroelectric ceramics and thin films for uncooled thermal imaging. Ferroelectrics, 2000, 236, 259-279.	0.6	50
40	Using the surface spontaneous depolarization field of ferroelectrics to direct the assembly of virus particles. Applied Physics Letters, 2004, 85, 3537-3539.	3.3	45
41	Ferroelectric precursor behavior in TaO _{0.5} Bi ₂ O ₇ ferroelectric thin films. Applied Physics Letters, 2004, 85, 3537-3539.	3.2	45
42	Nanotechnology "what is it? Should we be worried?". Occupational Medicine, 2006, 56, 295-299.	1.4	44
43	Properties of Bi ₄ Ti ₃ O ₁₂ (Na _{1/2} Bi _{1/2})TiO ₃ Piezoelectric Ceramics. Japanese Journal of Applied Physics, 2002, 41, 7127-7130.	1.5	40
44	Room temperature ferroelectric and magnetic investigations and detailed phase analysis of Aurivillius phase Bi ₅ Ti ₃ Fe _{0.7} Co _{0.3} O ₁₅ thin films. Journal of Applied Physics, 2012, 112, .	2.5	40
45	High performance, conducting pyroelectric ceramics. Ferroelectrics, 1983, 49, 201-210.	0.6	37
46	Development of residual stress in sol-gel derived Pb(Zr,Ti)O ₃ films: An experimental study. Journal of Applied Physics, 2008, 103, 084101.	2.5	37
47	Porous, Functionally Gradient Pyroelectric Materials. Journal of the American Ceramic Society, 2007, 90, 137-142.	3.8	36
48	The structural and piezoresponse properties of <i>c</i> -axis-oriented Aurivillius phase Bi ₅ Ti ₃ FeO ₁₅ thin films deposited by atomic vapor deposition. Applied Physics Letters, 2012, 101, .	3.3	36
49	Sputtered lead scandium tantalate thin films: Pb ⁴⁺ in B sites in the perovskite structure. Journal of Applied Physics, 1997, 82, 5686-5694.	2.5	35
50	Characterisation of PZT thin film micro-actuators using a silicon micro-force sensor. Sensors and Actuators A: Physical, 2007, 133, 35-44.	4.1	34
51	Pyroelectric response of lead zirconate titanate thin films on silicon: Effect of thermal stresses. Journal of Applied Physics, 2013, 114, .	2.5	34
52	Direct visualization of magnetic field induced magnetoelectric switching in multiferroic aurivillius phase thin films. Journal of the American Ceramic Society, 2017, 100, 975-987.	3.8	34
53	3 piezoelectric composites for large area hydrophones. Ferroelectrics, 1989, 93, 169-176.	0.6	33
54	Fabrication and modeling of high-frequency PZT composite thick film membrane resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1255-1261.	3.0	32

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55	Direct atomic scale determination of magnetic ion partition in a room temperature multiferroic material. Scientific Reports, 2017, 7, 1737.	3.3	32
56	Pyroelectric ceramics and thin films for applications in uncooled infra-red sensor arrays. Physica Scripta, 2007, T129, 6-11.	2.5	31
57	Fabrication of Arrays of Lead Zirconate Titanate (PZT) Nanodots via Block Copolymer Self-Assembly. Chemistry of Materials, 2013, 25, 1458-1463.	6.7	31
58	Recent developments in ferroelectrics for infrared detectors. Physica Status Solidi A, 1980, 61, 73-80.	1.7	30
59	Ultrahigh resolution of lead zirconate titanate 30/70 domains as imaged by piezoforce microscopy. Nanotechnology, 2002, 13, 456-459.	2.6	30
60	Room temperature electromechanical and magnetic investigations of ferroelectric Aurivillius phase Bi ₅ Ti ₃ (Fe _x Mn _{1-x})O ₁₅ (x=1 and 0.7) chemical solution deposited thin films. Journal of Applied Physics, 2012, 112, .		30
61	Ferroelectrics, microsystems and nanotechnology. Ferroelectrics, 1999, 225, 179-192.	0.6	29
62	Pyroelectric Materials and Devices. , 2001, , 99-147.		29
63	Comparative measurements of piezoelectric coefficient of PZT films by berlincourt, interferometer, and vibrometer methods. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2287-2293.	3.0	29
64	Piezoresponse force microscopy investigations of Aurivillius phase thin films. Journal of Applied Physics, 2010, 108, 042004.	2.5	29
65	Crystallographic and magnetic identification of secondary phase in orientated Bi ₅ Fe _{0.5} Co _{0.5} Ti ₃ O ₁₅ ceramics. Journal of Applied Physics, 2012, 112, 073919.	2.5	29
66	Surface Roughness Assisted Growth of Vertically Oriented Ferroelectric SbSI Nanorods. Chemistry of Materials, 2012, 24, 3279-3284.	6.7	28
67	Bismuth Self-Limiting Growth of Ultrathin BiFeO ₃ Films. Chemistry of Materials, 2015, 27, 6508-6515.	6.7	28
68	Growth and characterisation of lead zirconate titanate (30/70) on indium tin oxide coated glass for oxide ferroelectric-liquid crystal display application. Integrated Ferroelectrics, 2000, 29, 189-213.	0.7	26
69	The dielectric properties of NiBr and FeI boracite single crystals. Ferroelectrics, 1980, 27, 67-70.	0.6	25
70	TfP258. Physicochemical properties of SOL-GEL derived lead scandium tantalate Pb(Sc _{0.5} Ta _{0.5})O ₃ thin films. Ferroelectrics, 1992, 134, 343-348.	0.6	25
71	100 years of ferroelectricity – A celebration. APL Materials, 2021, 9, .	5.1	25
72	<title>Pyroelectric Ceramic Materials For Uncooled I.R. Detectors</title>. Proceedings of SPIE, 1983, , .	0.8	24

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73	Absence of Evidence \neq Evidence of Absence: Statistical Analysis of Inclusions in Multiferroic Thin Films. <i>Scientific Reports</i> , 2015, 4, 5712.	3.3	23
74	The electromechanical and SAW properties of proustite and pyrargyrite. <i>Journal Physics D: Applied Physics</i> , 1982, 15, 1289-1299.	2.8	21
75	Screen Printed PZT Thick Films Using Composite Film Technology. <i>Integrated Ferroelectrics</i> , 2003, 54, 651-658.	0.7	21
76	Direct and converse magnetoelectric effect at resonant frequency in laminar piezoelectric-magnetostrictive composite. <i>Journal of Electroceramics</i> , 2008, 20, 53-58.	2.0	21
77	Electrical conductivity in uranium doped, modified lead zirconate pyroelectric ceramics. <i>Ferroelectrics</i> , 1981, 37, 543-546.	0.6	19
78	Phase Diagram of the $\text{Bi}_4\text{Ti}_3\text{O}_{12}\text{-BaTiO}_3\text{-(Na}_{1/2}\text{Bi}_{1/2})\text{TiO}_3$ System. <i>Journal of the American Ceramic Society</i> , 2005, 88, 3147-3153.	3.8	19
79	Anomalous Motion of Charged Domain Walls and Associated Negative Capacitance in Copper-Chlorine Boracite. <i>Advanced Materials</i> , 2021, 33, e2008068.	21.0	19
80	Pyl11: Pyroelectric properties of thin film lead scandium tantalate. <i>Ferroelectrics</i> , 1992, 133, 35-40.	0.6	18
81	Screen Printed PZT Composite Thick Films. <i>Integrated Ferroelectrics</i> , 2004, 63, 89-92.	0.7	18
82	Atomic vapor deposition of bismuth titanate thin films. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	18
83	Tunable nanoscale structural disorder in Aurivillius phase, $n = 3$ $\text{Bi}_{4-x}\text{Ti}_{3-x}\text{O}_{12}$ thin films and their role in the transformation to $n = 4$, $\text{Bi}_5\text{Ti}_3\text{FeO}_{15}$ phase. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5727-5732.	5.5	18
84	Pyroelectric and photovoltaic properties of Nb-doped PZT thin films. <i>APL Materials</i> , 2021, 9, .	5.1	18
85	Ferroelectric Behavior in Exfoliated 2D Aurivillius Oxide Flakes of Sub-Unit Cell Thickness. <i>Advanced Electronic Materials</i> , 2020, 6, 1901264.	5.1	18
86	High dielectric constant ceramics in the $\text{PbSc}_{0.5}\text{Ta}_{0.5}\text{O}_3\text{-PbZrO}_3$ and $\text{PbSc}_{0.5}\text{Ta}_{0.5}\text{O}_3\text{-PbTiO}_3$ systems. <i>Journal of Materials Science</i> , 1993, 28, 1377-1384.	3.7	17
87	Preparation of Functionally Graded PZT Ceramics Using Tape Casting. <i>Journal of Electroceramics</i> , 2004, 13, 413-415.	2.0	17
88	Pyroelectric effect enhancement in laminate composites under short circuit condition. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	17
89	The electro-elastic and SAW properties of $\text{Sr}_{0.5}\text{Ba}_{0.5}\text{Nb}_2\text{O}_6$. <i>Journal Physics D: Applied Physics</i> , 1982, 15, 2469-2481.	2.8	16
90	A black platinum catalyst/pyroelectric gas sensor. <i>Ferroelectrics</i> , 1984, 54, 211-214.	0.6	16

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91	Sol-gel PZT and Mn-doped PZT thin films for pyroelectric applications. Integrated Ferroelectrics, 2001, 41, 43-50.	0.7	16
92	Transformation dependence of lead zirconate titanate (PZT) as shown by piezoafm surface mapping of SOL-GEL produced pzt on various substrates.. Integrated Ferroelectrics, 2001, 38, 39-47.	0.7	16
93	Interesting Evidence for Template-Induced Ferroelectric Behavior in Ultra-Thin Titanium Dioxide Films Crown on (110) Neodymium Gallium Oxide Substrates. Advanced Functional Materials, 2014, 24, 2844-2851.	14.9	16
94	The dielectric and piezoelectric properties of vinylidene fluoride-trifluoroethylene copolymers. Ferroelectrics, 1987, 76, 383-391.	0.6	15
95	Piezoelectric PZT films for MEMS and their characterization by interferometry. Journal of Electroceramics, 2006, 17, 549-556.	2.0	15
96	Ferroelectric Thin Films for Capacitor and Sensor Applications. , 1995, , 383-397.		15
97	Improvements to pyroelectric ceramics via strontium doping of the lead zirconate-lead iron niobate-lead titanate system. Ferroelectrics, 1991, 118, 93-101.	0.6	14
98	Ferroelectric materials for uncooled thermal imaging. Proceedings of SPIE, 1993, , .	0.8	14
99	Coupling of the remanent polarisation in thin film oxide ferroelectrics with nematic liquid crystals. Journal of Materials Chemistry, 1999, 9, 375-380.	6.7	14
100	The growth and piezoelectric properties of Te ₂ V ₂ O ₉ (for surface acoustic wave device application). Journal Physics D: Applied Physics, 1980, 13, 2143-2149.	2.8	13
101	Low Microphony Pyroelectric Arrays. , 1986, 0588, 44.		13
102	Temperature-dependence of the lattice parameters of nickel-bromine boracite between 25 and 200°C. Phase Transitions, 1981, 2, 85-101.	1.3	12
103	0-3 composite sensitivity. Ferroelectrics, 1990, 109, 217-222.	0.6	12
104	Preparation and properties of PbTiO ₃ and Pb(Sc _{0.5} Ta _{0.5})O ₃ thin films by sol-gel processing. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1991, 38, 672-676.	3.0	12
105	Ferroelectric ceramics and thin films for pyroelectric applications. Integrated Ferroelectrics, 1993, 3, 301-308.	0.7	12
106	Sputtered lead scandium tantalate thin films: crystallization behaviour during post-deposition annealing. Journal Physics D: Applied Physics, 2001, 34, 3121-3129.	2.8	12
107	Mechanical and electromechanical properties of PZT sol-gel thin films measured by nanoindentation. Integrated Ferroelectrics, 2001, 41, 53-62.	0.7	12
108	Quantitative High-Dynamic-Range Electron Diffraction of Polar Nanodomains in Pb ₂ ScTaO ₆ . Advanced Materials, 2019, 31, e1806498.	21.0	12

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109	Nucleation control during the growth of boracite single crystals. <i>Ferroelectrics</i> , 1980, 28, 329-332.	0.6	11
110	An examination of thin film lead scandium tantalum oxide (PST) using piezoAFM. <i>Journal of Materials Science Letters</i> , 2001, 20, 179-181.	0.5	11
111	Piezo- and pyroelectric properties of lead scandium tantalate thin films. <i>Integrated Ferroelectrics</i> , 2001, 35, 209-218.	0.7	11
112	The Effect of Repeated Sol Infiltrations on the Microstructure and Electrical Properties of PZT Composite Sol-Gel Films. <i>Ferroelectrics</i> , 2002, 267, 373-378.	0.6	11
113	A double-beam common path laser interferometer for the measurement of electric field-induced strains of piezoelectric thin films. <i>Review of Scientific Instruments</i> , 2005, 76, 123906.	1.3	11
114	Experimental, analytical, and finite element analyses of nanoindentation of multilayer PZT/Pt/SiO ₂ thin film systems on silicon wafers. <i>Journal of Materials Research</i> , 2006, 21, 409-419.	2.6	11
115	Pyroelectric Properties of Lead Based Ferroelectric thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1993, 310, 53.	0.1	10
116	THE ELECTROMECHANICAL PROPERTIES OF HIGHLY [100] ORIENTED [Pb(Zr _{0.52} Ti _{0.48})O ₃ , PZT] THIN FILMS. <i>Integrated Ferroelectrics</i> , 2006, 80, 77-85.	0.7	10
117	Sputtered lead scandium tantalate thin films: a microstructural study. <i>Journal of Materials Science</i> , 1998, 33, 363-370.	3.7	9
118	Effect of sol infiltrations on electrical properties of PZT. <i>Advances in Applied Ceramics</i> , 2002, 101, 146-148.	0.4	9
119	Flextensional ultrasonic motor using the contour mode of a square piezoelectric plate. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 929-936.	3.0	9
120	Flextensional ultrasonic piezoelectric micro-motor. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 2357-2366.	3.0	9
121	SOL-GEL FABRICATION OF PZT THICK FILMS FOR MEMS. <i>Integrated Ferroelectrics</i> , 2007, 88, 93-102.	0.7	9
122	<i>Ferroelectric Materials</i> . , 2006, , 597-623.		9
123	Characterisation of Pyroelectric Materials. <i>Springer Series in Measurement Science and Technology</i> , 2014, , 65-86.	0.8	9
124	Electrophoretic deposition of ferroelectric thin films. <i>Ferroelectrics</i> , 1996, 187, 57-73.	0.6	8
125	FIB Milled PZT Nanocapacitors Tested Using PFM. <i>Integrated Ferroelectrics</i> , 2004, 61, 223-230.	0.7	8
126	The investigation of key processing parameters in fabrication of Pb(Zr _x Ti _{1-x})O ₃ thick films for MEMS applications. <i>Journal of Electroceramics</i> , 2007, 19, 295-301.	2.0	8

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127	Ferroelectric Materials. Springer Handbooks, 2017, , 1-1.	0.6	7
128	Piezoelectric and Pyroelectric Materials and Their Applications. , 1991, , 283-290.		6
129	DiC17: High dielectric constant ceramics in the $\text{PbSc}_{0.5}\text{Ta}_{0.5}\text{O}_3\text{-PbZrO}_3$ system. Ferroelectrics, 1992, 133, 159-161.	0.6	6
130	Cryogenic electrical studies of manganese-doped lead scandium tantalate thin films: Phase transitions or domain wall dynamics?. AIP Conference Proceedings, 2001, , .	0.4	6
131	On the phase transformation kinetics in lead scandium tantalate thin films. Journal Physics D: Applied Physics, 2003, 36, 3039-3046.	2.8	6
132	Orientation Control of Low Temperature Deposited Sol-Gel PZT52/48 Films. Ferroelectrics, 2005, 318, 41-48.	0.6	6
133	Comment on "Interesting Evidence for Template-Induced Ferroelectric Behavior in Ultra-Thin Titanium Dioxide Films Grown on (110) Neodymium Gallium Oxide Substrates". Advanced Functional Materials, 2016, 26, 642-646.	14.9	6
134	Quasi-indirect measurement of electrocaloric temperature change in $\text{PbSc}_{0.5}\text{Ta}_{0.5}\text{O}_3$ via comparison of adiabatic and isothermal electrical polarization data. APL Materials, 2021, 9, .	5.1	6
135	Growth and characterization of $\text{PbZr}_x\text{Ti}_{1-x}\text{O}_3$ single crystals. Ferroelectrics, 1976, 13, 497-500.	0.6	5
136	The dependence of microstructure and superconducting phase formation on post-sintering cool-rate of $\text{BiCaSrCu}_2\text{O}_x$ ceramic. Superconductor Science and Technology, 1989, 2, 132-139.	3.5	5
137	Thin ferroelectric films for thermal detector applications. Integrated Ferroelectrics, 1992, 1, 363-378.	0.7	5
138	Low temperature formation of sol-gel derived ferroelectric lead zirconate titanate ($\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$, $x = 0.3$) thin films. European Physical Journal Special Topics, 1998, 08, Pr9-79-Pr9-82.	0.2	5
139	Local Fredericksz transitions at a nematic liquid crystal/thin film oxide ferroelectric interface. Liquid Crystals, 1999, 26, 601-604.	2.2	5
140	High Frequency PZT Composite Thick Film Resonators. Integrated Ferroelectrics, 2004, 63, 27-33.	0.7	5
141	Pyroelectric Crystals, Ceramics, and Thin Films for IR Sensors. , 2021, , 139-150.		5
142	Monoclinic domain populations and enhancement of piezoelectric properties in a PZT single crystal at the morphotropic phase boundary. Physical Review B, 2022, 105, .	3.2	5
143	Effect of alloying platinum bottom electrode with silver: In relation to CSD processing of PZT thin films. Integrated Ferroelectrics, 2000, 29, 251-271.	0.7	4
144	Thick PZT Micro-Features Obtained by Direct Patterning of Photosensitive Precursor Solution. Integrated Ferroelectrics, 2003, 54, 585-593.	0.7	4

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145	Sol-Gel Derived Lead Zirconate Titanate Thick Films and Their Improved Pyroelectric Properties. Integrated Ferroelectrics, 2004, 64, 207-216.	0.7	4
146	STRESS-INDUCED PHASE FORMATION OF PZT 52/48 THIN FILMS. Integrated Ferroelectrics, 2007, 88, 85-92.	0.7	4
147	Single point diamond turning of ferroelectric materials. Ferroelectrics, 1999, 228, 229-239.	0.6	3
148	Growth and characterisation of lead zirconate titanate (30/70) thin films using TiO ₂ seeding for oxide ferroelectric-liquid crystal display application. Ferroelectrics, 2001, 256, 159-174.	0.6	3
149	Growth Stages of Sol-Gel Derived PZT(30/70) on Pt/Ti/SiO ₂ as Shown by SPM (PFM and Topography). Integrated Ferroelectrics, 2002, 46, 87-94.	0.7	3
150	Comparative microstructure and electrical property studies of lead scandium tantalate thin films as prepared by LDCVD, sol-gel and sputtering techniques. Journal Physics D: Applied Physics, 2003, 36, 270-279.	2.8	3
151	Development Aspects of an Integrated Pyroelectric Array Incorporating a Thin PZT Film and Radiation Collectors. Integrated Ferroelectrics, 2004, 63, 93-97.	0.7	3
152	Influence of MgO on the Structural and Electrical Properties of Bi ₄ Ti ₃ O ₁₂ . Integrated Ferroelectrics, 2004, 62, 193-197.	0.7	3
153	Fabrication of PZT Composite Thick Films for High Frequency Membrane Resonators. Journal of Electroceramics, 2004, 13, 267-270.	2.0	3
154	Pyroelectric Arrays Using Ceramics and Thin Films Integrated Radiation Collectors: Design Fabrication and Testing. Ferroelectrics, 2005, 318, 11-22.	0.6	3
155	Recent Advances in Pyroelectric Ceramics and Thin Films for Applications in Uncooled Infra-Red Sensor Arrays. Advances in Science and Technology, 2006, 45, 2503.	0.2	3
156	Order-disorder, ferroelasticity and mobility of domain walls in multiferroic Cu ²⁺ Cl boracite. Journal of Physics Condensed Matter, 2021, 33, 095402.	1.8	3
157	Electronic ceramics. Physics in Technology, 1988, 19, 58-66.	0.2	2
158	Low temperature sol gel deposition of PST (Pb(Sc _{0.5} Ta _{0.5})O ₃) thin films. Ferroelectrics, 1999, 228, 53-60.	0.6	2
159	The influence of particle size of acetic acid modified PZT precursor solution on the crystallization and electrical properties of sol-gel processed PZT thin films. Integrated Ferroelectrics, 1999, 23, 215-228.	0.7	2
160	Travelling wave ultrasonic motor using the B ₀₈ /flexural mode of a circular membrane. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 683-690.	3.0	2
161	A Model of Phase Transition Kinetics in Lead Scandium Tantalate Thin Films. Integrated Ferroelectrics, 2003, 58, 1347-1357.	0.7	2
162	Kinetics of Phase Transformations in Lead Scandium Tantalate Thin Films. Integrated Ferroelectrics, 2004, 60, 87-94.	0.7	2

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163	An Introduction to Ferroelectric Ceramics and their Applications. , 1991, , 223-254.		2
164	Passive Properties of 3-1-1 Piezoelectric Composites. Japanese Journal of Applied Physics, 1985, 24, 448.	1.5	2
165	High Frequency Thin Film Acoustic Ferroelectric Resonators. Materials Research Society Symposia Proceedings, 2000, 655, 171.	0.1	1
166	Effects of Pulsed Electric Fields on a Nematic Device with a Ferroelectric Ceramic Substrate. Molecular Crystals and Liquid Crystals, 2001, 368, 9-15.	0.3	1
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