

# Jan Petzelt

## List of Publications by Year in descending order

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358  
papers

11,275  
citations

26610

56  
h-index

48277

88  
g-index

374  
all docs

374  
docs citations

374  
times ranked

6480  
citing authors

#	ARTICLE	IF	CITATIONS
1	The giant electromechanical response in ferroelectric relaxors as a critical phenomenon. <i>Nature</i> , 2006, 441, 956-959.	13.7	648
2	Dielectric, infrared, and Raman response of undoped SrTiO <sub>3</sub> ceramics: Evidence of polar grain boundaries. <i>Physical Review B</i> , 2001, 64, .	1.1	248
3	Infrared and terahertz studies of polar phonons and magnetodielectric effect in multiferroic BiFeO <sub>3</sub> ceramics. <i>Physical Review B</i> , 2007, 75, .	1.1	241
4	Anomalous broad dielectric relaxation in Bi <sub>1.5</sub> Zn <sub>1.0</sub> Nb <sub>1.5</sub> O <sub>7</sub> pyrochlore. <i>Physical Review B</i> , 2002, 66, .	1.1	193
5	Coexistence of the Phonon and Relaxation Soft Modes in the Terahertz Dielectric Response of Tetragonal $\text{BaTiO}_3$ . <i>Physical Review Letters</i> , 2008, 101, 167402.	2.9	191
6	Grain size and grain boundary-related effects on the properties of nanocrystalline barium titanate ceramics. <i>Journal of the European Ceramic Society</i> , 2006, 26, 2889-2898.	2.8	190
7	Infrared dielectric response of relaxor ferroelectrics. <i>Phase Transitions</i> , 2006, 79, 41-78.	0.6	171
8	Dielectric spectroscopy of Ba(Bi <sub>1/2</sub> W <sub>1/2</sub> )O <sub>3</sub> complex perovskite ceramics: Correlations between ionic parameters and microwave dielectric properties. I. Infrared reflectivity study (1012-1014 Hz). <i>Journal of Applied Physics</i> , 1995, 77, 5341-5350.	1.1	155
9	Dielectric dispersion of the relaxor PLZT ceramics in the frequency range 20 Hz-100 THz. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 497-519.	0.7	155
10	Infrared, Raman and high-frequency dielectric spectroscopy and the phase transitions in Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , 2004, 16, 2719-2731.	0.7	153
11	Symmetry classification and properties of equi-translation structural phase transitions. <i>European Physical Journal D</i> , 1975, 25, 1362-1396.	0.4	147
12	Ferroelectric properties of dense nanocrystalline BaTiO <sub>3</sub> ceramics. <i>Nanotechnology</i> , 2004, 15, 1113-1117.	1.3	140
13	Terahertz dielectric response of cubic $\text{BaTiO}_3$ . <i>Physical Review B</i> , 2008, 77, .	1.1	125
14	Structure of the dielectric spectrum of relaxor ferroelectrics. <i>Journal of the European Ceramic Society</i> , 2001, 21, 1307-1311.	2.8	117
15	Dielectric spectroscopy of paraelectric soft modes. <i>Ferroelectrics</i> , 1987, 73, 101-123.	0.3	116
16	Effect of Doping on the Dielectric Properties of Cerium Oxide in the Microwave and Far-Infrared Frequency Range. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1233-1237.	1.9	116
17	B-site order and infrared reflectivity in A(B <sub>1/2</sub> W <sub>1/2</sub> )O <sub>3</sub> complex perovskite ceramics. <i>Journal of Applied Physics</i> , 1994, 76, 2086-2092.	1.1	114
18	Origin of soft-mode stiffening and reduced dielectric response in SrTiO <sub>3</sub> thin films. <i>Physical Review B</i> , 2002, 66, .	1.1	114

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19	Lattice Dynamics and Central-Mode Phenomena in the Dielectric Response of Ferroelectrics and Related Materials. <i>Ferroelectrics</i> , 2004, 308, 131-192.	0.3	113
20	Dielectric spectroscopy of Ba(B <sub>1/2</sub> A <sup>TM</sup> B <sub>1/2</sub> )O <sub>3</sub> complex perovskite ceramics: Correlations between ionic parameters and microwave dielectric properties. II. Studies below the phonon eigenfrequencies (102â€“1012Hz). <i>Journal of Applied Physics</i> , 1995, 77, 5351-5364.	1.1	106
21	High frequency dielectric properties of A <sub>5</sub> B <sub>4</sub> O <sub>15</sub> microwave ceramics. <i>Journal of Applied Physics</i> , 2001, 89, 3900-3906.	1.1	106
22	Submillimetre and infrared response of microwave materials: extrapolation to microwave properties. <i>Materials Chemistry and Physics</i> , 2003, 79, 175-180.	2.0	105
23	Lattice dynamics in PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> . <i>Physical Review B</i> , 2004, 70, .	1.1	102
24	Changes of infrared and Raman spectra induced by structural phase transitions. I. General considerations. <i>Journal of Physics C: Solid State Physics</i> , 1976, 9, 1571-1586.	1.5	100
25	Dielectric spectroscopy of MgTiO <sub>3</sub> -based ceramics in the 109â€“1014Hz region. <i>Journal of Materials Science</i> , 1993, 28, 5894-5900.	1.7	96
26	Soft and central mode behaviour in PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> relaxor ferroelectric. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 3965-3974.	0.7	91
27	Broad-band dielectric response of PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> relaxor ferroelectrics: Single crystals, ceramics and thin films. <i>Journal of the European Ceramic Society</i> , 2006, 26, 2867-2875.	2.8	91
28	Origin of the “Waterfall” Effect in Phonon Dispersion of Relaxor Perovskites. <i>Physical Review Letters</i> , 2003, 91, 107602.	2.9	90
29	Magnetodielectric effect and optic soft mode behaviour in quantum paraelectric EuTiO <sub>3</sub> ceramics. <i>Europhysics Letters</i> , 2007, 80, 27002.	0.7	88
30	Dielectric spectra of some ceramics for microwave applications in the range of 1010â€“1014Hz. <i>Ferroelectrics</i> , 1989, 93, 77-85.	0.3	87
31	Central-Peak Components and Polar Soft Mode in Relaxor PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> Crystals. <i>Ferroelectrics</i> , 2004, 298, 23-30.	0.3	87
32	Raman and AFM piezoresponse study of dense BaTiO <sub>3</sub> nanocrystalline ceramics. <i>Journal of the European Ceramic Society</i> , 2005, 25, 3059-3062.	2.8	85
33	Changes of refractive indices of crystals induced by structural phase transitions. <i>Physica Status Solidi A</i> , 1979, 55, 11-40.	1.7	84
34	Symmetry and lattice-dynamic aspects of structural phase transitions in (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> MnCl <sub>4</sub> and related compounds. <i>Journal of Physics and Chemistry of Solids</i> , 1975, 36, 1005-1014.	1.9	83
35	Broad-band dielectric spectroscopy analysis of relaxational dynamics in Mn-doped SrTiO <sub>3</sub> ceramics. <i>Physical Review B</i> , 2006, 73, .	1.1	81
36	Dielectric and light scattering spectroscopy of incommensurate phases in crystals. <i>Phase Transitions</i> , 1981, 2, 155-229.	0.6	74

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37	Millimeter-wavelength spectroscopy of the ferroelectric phase transition in tris-sarcosine calcium chloride [(CH <sub>3</sub> NHCH <sub>2</sub> COOH) <sub>3</sub> CaCl <sub>2</sub> ]. <i>Physical Review B</i> , 1983, 28, 255-261.	1.1	73
38	Room temperature surface piezoelectricity in SrTiO <sub>3</sub> ceramics via piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	73
39		1.1	72
40	Percolation effect, thermodynamic properties of AgI and interface phases in AgI-Al <sub>2</sub> O <sub>3</sub> composites. <i>Solid State Ionics</i> , 2000, 127, 253-267.	1.3	70
41	Far infrared properties of the pseudoproper ferroelectric ammonium sulfate. <i>Ferroelectrics</i> , 1973, 6, 225-234.	0.3	69
42	Infrared and Raman activity of soft modes in the incommensurate structure. <i>Journal of Physics C: Solid State Physics</i> , 1978, 11, 4827-4835.	1.5	69
43	Relaxor-like behavior of BaTiO <sub>3</sub> crystals from acoustic emission study. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	69
44	Polar phonon mixing in magnetoelectric EuTiO <sub>3</sub> . <i>European Physical Journal B</i> , 2009, 71, 429-433.	0.6	68
45	Dielectric Grain-Size Effect in High-Permittivity Ceramics. <i>Ferroelectrics</i> , 2010, 400, 117-134.	0.3	68
46	Broadband dielectric response of Ba(Zr,Ti)O <sub>3</sub> ceramics: From incipient via relaxor and diffuse up to classical ferroelectric behavior. <i>Physical Review B</i> , 2012, 86, .	1.1	66
47	A Raman spectral characterization of ceramics in the system ZrO <sub>2</sub> -TiO <sub>2</sub> . <i>Journal of Materials Science</i> , 1993, 28, 2273-2276.	1.7	65
48	Incipient ferroelectricity of water molecules confined to nano-channels of beryl. <i>Nature Communications</i> , 2016, 7, 12842.	5.8	65
49	Infrared and Raman spectroscopy of [Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ] <sub>0.92</sub> [PbTiO <sub>3</sub> ] <sub>0.08</sub> and [Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ] <sub>0.71</sub> [PbTiO <sub>3</sub> ] <sub>0.29</sub> single crystals. <i>Journal of Applied Physics</i> , 2003, 93, 933-939.	1.1	63
50	Infrared and broadband dielectric spectroscopy of PZN-PMN-PSN relaxor ferroelectrics: Origin of two-component relaxation. <i>Physical Review B</i> , 2006, 74, .	1.1	63
51	Far Infrared Reflectivity of SbSI. <i>Physica Status Solidi (B): Basic Research</i> , 1969, 36, 321-333.	0.7	62
52	Relationship between microwave and lattice vibration properties in Ba(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -based microwave dielectric ceramics. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 1980-1986.	1.3	61
53	Far infrared dielectric dispersion in Sb <sub>2</sub> S <sub>3</sub> , Bi <sub>2</sub> S <sub>3</sub> and Sb <sub>2</sub> Se <sub>3</sub> single crystals. <i>Ferroelectrics</i> , 1973, 5, 59-68.	0.3	60
54	Broadband dielectric response and grain-size effect in K <sub>0.5</sub> Na <sub>0.5</sub> NbO <sub>3</sub> ceramics. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	58

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55	Fano resonance and dipolar relaxation in lead-free relaxors. Nature Communications, 2014, 5, 5100.	5.8	57
56	Structure of Ba(Y+31/2Ta+51/2)O3 and its dielectric properties in the range 102â€“1014Hz, 20â€“600 K. Journal of Applied Physics, 1994, 76, 5864-5873.	1.1	56
57	Anisotropic Dielectric Function in Polar Nanoregions of Relaxor Ferroelectrics. Physical Review Letters, 2006, 96, 027601.	2.9	56
58	Highly tunable SrTiO3âˆ•DyScO3 heterostructures for applications in the terahertz range. Applied Physics Letters, 2007, 91, .	1.5	56
59	Far infrared spectroscopy and origin of microwave losses in low-loss ceramics far infrared spectroscopy in low loss ceramics. Ferroelectrics, 1993, 150, 89-102.	0.3	55
60	Polar phonons and central mode in antiferroelectric PbZrO3 ceramics. Journal of Physics Condensed Matter, 2001, 13, 2677-2689.	0.7	55
61	Composition dependence of the lattice vibrations in Sr <sub>n+1</sub> Ti <sub>n</sub> O <sub>3n+1</sub> Ruddlesdenâ€“Popper homologous series. Journal of the European Ceramic Society, 2003, 23, 2639-2645.	2.8	55
62	Temperature dependence of infrared-active phonons in CaTiO3: A combined spectroscopic and first-principles study. Physical Review B, 2002, 66, .	1.1	54
63	Frequency-independent dielectric losses (1/fnoise) in PLZT relaxors at low temperatures. Journal of Physics Condensed Matter, 2003, 15, 6017-6030.	0.7	54
64	Infrared and dielectric spectroscopy of the relaxor ferroelectric Sr0.61Ba0.39Nb2O6. Journal of Physics Condensed Matter, 2005, 17, 653-666.	0.7	54
65	Properties of rubidium nitrate in ion-conducting RbNO3-Al2O3 nanocomposites. Solid State Ionics, 1996, 90, 201-207.	1.3	53
66	Dielectric properties of microwave ceramics investigated by infrared and submillimetre spectroscopy. Ferroelectrics, 1996, 176, 145-165.	0.3	53
67	Infrared and microwave dielectric response of the disordered antiferroelectric Ag(Ta,Nb)O3 system. Ferroelectrics, 1999, 223, 235-246.	0.3	52
68	Ferroelastic phase in SrBi2Ta2O9 and study of the ferroelectric phase-transition dynamics. Applied Physics Letters, 2002, 81, 1056-1058.	1.5	52
69	Far infrared and submillimetre dielectric dispersion in ferroelectric PbHPO4 and PbHAsO4. Ferroelectrics, 1978, 21, 387-389.	0.3	51
70	Lattice dynamics and dielectric response of undoped, soft and hard PbZr <sub>0.42</sub> Ti <sub>0.58</sub> O <sub>3</sub> . Phase Transitions, 2010, 83, 917-930.	0.6	50
71	Broadband dielectric and conductivity spectroscopy of inhomogeneous and composite conductors. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2259-2271.	0.8	50
72	Broadband dielectric spectroscopy of phonons and polar nanoclusters in $\text{PbMg}_{1-x}\text{Pb}_{x}\text{O}_3$ . Physical Review B, 2009, 79, .	1.1	48

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73	Grain-boundary and crack effects on the dielectric response of high-permittivity films and ceramics. <i>Applied Physics Letters</i> , 2002, 81, 4224-4226.	1.5	47
74	Broad-band conductivity and dielectric spectroscopy of composites of multiwalled carbon nanotubes and poly(ethylene terephthalate) around their low percolation threshold. <i>Nanotechnology</i> , 2013, 24, 055707.	1.3	47
75	Symmetry aspect of the phase transitions in boracites. <i>European Physical Journal D</i> , 1971, 21, 1141-1152.	0.4	46
76	Dielectric relaxation in tetragonal tungsten bronze ceramics. <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 471-476.	1.9	44
77	Soft mode behavior in SrTiO <sub>3</sub> /DyScO <sub>3</sub> thin films: Evidence of ferroelectric and antiferrodistortive phase transitions. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	44
78	Far-infrared dielectric response of PbTiO <sub>3</sub> and PbZr <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> thin ferroelectric films. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 4313-4323.	0.7	43
79	New Type of Ferroelectric Soft Mode in Gadolinium Molybdate. <i>Physica Status Solidi (B): Basic Research</i> , 1971, 46, 413-423.	0.7	42
80	Dielectric Spectra of Grainy High-Permittivity Materials. <i>Ferroelectrics</i> , 2004, 303, 137-140.	0.3	42
81	High frequency dielectric properties of CaTiO <sub>3</sub> -based microwave ceramics. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 741-748.	1.3	42
82	Raman spectroscopy and effective dielectric function in PLZT $40 < i > / < i > 60$ . <i>Journal of Physics Condensed Matter</i> , 2008, 20, 345229.	0.7	41
83	Far-infrared spectroscopy of a SrTiO <sub>3</sub> thin film. <i>Ferroelectrics</i> , 1998, 208-209, 413-427.	0.3	40
84	Role of trivalent Sr substituents and Sr vacancies in tetragonal and polar states of SrTiO <sub>3</sub> . <i>Acta Materialia</i> , 2011, 59, 5388-5397.	3.8	40
85	Phase transitions sequence in pyrochlore Cd <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> studied by IR reflectivity. <i>European Physical Journal B</i> , 2001, 19, 9-16.	0.6	39
86	Lattice dynamics and dielectric response of Mg-doped SrTiO <sub>3</sub> ceramics in a wide frequency range. <i>Journal of Applied Physics</i> , 2005, 97, 044104.	1.1	39
87	Changes of infrared and Raman spectra induced by structural phase transitions. II. Examples. <i>Journal of Physics C: Solid State Physics</i> , 1976, 9, 1587-1601.	1.5	38
88	Raman spectroscopy of the zone centre improper ferroelastic transition in ordered complex perovskite ceramic. <i>Solid State Communications</i> , 1995, 94, 899-903.	0.9	38
89	Grain boundary effects on dielectric, infrared and Raman response of SrTiO <sub>3</sub> nanograin ceramics. <i>Journal of the European Ceramic Society</i> , 2006, 26, 2855-2859.	2.8	38
90	Electrical activity of ferroelectric biomaterials and its effects on the adhesion, growth and enzymatic activity of human osteoblast-like cells. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 175403.	1.3	38

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91	Diffuse scattering in $\text{Pb}(\text{Zr}_{1/3}\text{Nb}_{2/3})\text{O}_3$ with $8\text{\AA}$ $\text{PbTiO}_3$ by quasi-elastic neutron scattering. Journal of Physics Condensed Matter, 2003, 15, 4249-4257.	0.7	37
92	Microwave dielectric relaxation in cubic bismuth based pyrochlores containing titanium. Journal of Applied Physics, 2006, 100, 014105.	1.1	37
93	Broad-band dielectric spectroscopy and ferroelectric soft-mode response in the $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ solid solution. Journal of Physics Condensed Matter, 2009, 21, 474215.	0.7	37
94	Far infrared and millimetre dielectric response of incommensurate and ferroelectric $\text{K}_2\text{SeO}_4$ . Zeitschrift für Physik B Condensed Matter and Quanta, 1979, 33, 369-379.	1.9	35
95	DiP230: Dielectric spectroscopy of some $\text{Ba}(\text{B}^{2+}_{1/2}\text{B}^{3+}_{1/2})\text{O}_3$ complex perovskites in the $10^{11}$ – $10^{14}$ Hz range. Ferroelectrics, 1992, 133, 205-210.	0.3	35
96	Relation between intrinsic microwave and submillimeter losses and permittivity in dielectrics. Solid State Communications, 1993, 87, 1117-1120.	0.9	35
97	Infrared and Raman studies of the dead grain-boundary layers in $\text{SrTiO}_3$ fine-grain ceramics. Journal of Physics Condensed Matter, 2007, 19, 196222.	0.7	35
98	Dynamic Ferroelectricity Like Softening Due to the Conduction in Disordered and Inhomogeneous Systems: Giant Permittivity Phenomena. Ferroelectrics, 2012, 426, 171-193.	0.3	34
99	New type of far-infrared soft mode in ferroelectric gadolinium molybdate. Solid State Communications, 1971, 9, 1485-1488.	0.9	33
100	Brillouin spectroscopic investigations of the ferroelectric phase transition in a Polyvinylidene fluoride / Trifluorethylene copolymer. Colloid and Polymer Science, 1986, 264, 791-797.	1.0	33
101	Inelastic neutron scattering study of the soft phonon branch in deuterated BCCD. Solid State Communications, 1990, 75, 545-549.	0.9	33
102	Broad-band dielectric spectroscopy of $\text{SrTiO}_3$ :Bic ceramics. Physical Review B, 2004, 69, .	1.1	33
103	Broadband Dielectric Spectroscopy of $\text{Ba}(\text{Zr,Ti})\text{O}_3$ : Dynamics of Relaxors and Diffuse Ferroelectrics. Ferroelectrics, 2014, 469, 14-25.	0.3	33
104	Dielectric ordering of water molecules arranged in a dipolar lattice. Nature Communications, 2020, 11, 3927.	5.8	33
105	Dielectric properties of microcomposite ferroelectrics. Phase Transitions, 1999, 67, 725-739.	0.6	32
106	Microwave and infrared dielectric response of monoclinic bismuth zinc niobate based pyrochlore ceramics with ion substitution in A site. Journal of Applied Physics, 2006, 100, 034109.	1.1	32
107	Dielectric relaxation and polar phonon softening in relaxor ferroelectric $\text{PbMg}_{1/3}\text{Ta}_{2/3}\text{O}_3$ . Journal of Applied Physics, 2007, 102, 074106.	1.1	32
108	Far infrared and terahertz spectroscopy of ferroelectric soft modes in thin films: A review. Ferroelectrics, 2016, 503, 19-44.	0.3	32

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109	Dielectric Response of Soft Modes in Ferroelectric Thin Films. <i>Ferroelectrics</i> , 2003, 288, 169-185.	0.3	31
110	Grain-size effect in BaTiO <sub>3</sub> ceramics: study by far infrared spectroscopy. <i>Phase Transitions</i> , 2006, 79, 361-373.	0.6	31
111	Mechanisms of the Effect of Dopants and P(O <sub>2</sub> ) on the Improper Ferroelastic Phase Transition in SrTiO <sub>3</sub> . <i>Chemistry of Materials</i> , 2007, 19, 6471-6477.	3.2	31
112	Study of the ferroelectric phase transition in germanium telluride using time-domain terahertz spectroscopy. <i>Physical Review B</i> , 2011, 84, .	1.1	31
113	Electrode effects in dielectric spectroscopy measurements on (Nb+In) co-doped TiO <sub>2</sub> . <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	31
114	Far-infrared soft-mode behavior in PbSc <sub>1/2</sub> Ta <sub>1/2</sub> O <sub>3</sub> thin films. <i>Journal of Applied Physics</i> , 2005, 98, 074103.	1.1	30
115	In-Plane and Out-of-Plane Ferroelectric Instabilities in Epitaxial SrTiO <sub>3</sub> Films. <i>Physical Review Letters</i> , 2006, 96, 157602.	2.9	30
116	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{BaZr} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.5 \langle \text{mml:mathvariant="normal"} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle :$ Lead-free relaxor ferroelectric or dipolar glass. <i>Physical Review B</i> , 2016, 93, .	1.1	30
117	Polar optic phonons in SbSI-type single crystals. <i>Ferroelectrics</i> , 1973, 5, 219-228.	0.3	29
118	Time-resolved terahertz transmission spectroscopy of dielectrics. <i>Ferroelectrics</i> , 2000, 239, 79-86.	0.3	29
119	Relaxor-like behavior of lead-free Sr <sub>2</sub> LaTi <sub>2</sub> Nb <sub>3</sub> O <sub>15</sub> ceramics with tetragonal tungsten bronze structure. <i>Journal of Applied Physics</i> , 2007, 101, 054115.	1.1	29
120	Infrared dielectric response of ordered and disordered ferroelectric Pb(Sc <sub>1/2</sub> Ta <sub>1/2</sub> )O <sub>3</sub> ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1998, 55, 86-94.	1.7	28
121	FIR and near-millimetre dielectric response of SrTiO <sub>3</sub> , BaTiO <sub>3</sub> and BST films and ceramics. <i>Journal of the European Ceramic Society</i> , 2003, 23, 2627-2632.	2.8	28
122	Broadband dielectric spectroscopy of (1-x)BiScO <sub>3</sub> -xPbTiO <sub>3</sub> piezoelectrics. <i>Applied Physics Letters</i> , 2003, 83, 1605-1607.	1.5	27
123	Dynamics of the phase transitions in Bi-layered ferroelectrics with Aurivillius structure: Dielectric response in the terahertz spectral range. <i>Physical Review B</i> , 2006, 74, .	1.1	27
124	Soft Mode Behavior in Cubic and Tetragonal BaTiO <sub>3</sub> Crystals and Ceramics: Review on the Results of Dielectric Spectroscopy. <i>Ferroelectrics</i> , 2008, 375, 156-164.	0.3	27
125	Enhancement of tetragonality and role of strontium vacancies in heterovalent doped SrTiO <sub>3</sub> . <i>Applied Physics Letters</i> , 2011, 98, .	1.5	27
126	Lattice dynamics and dielectric spectroscopy of BZT and NBT lead-free perovskite relaxors - comparison with lead-based relaxors. <i>Phase Transitions</i> , 2015, 88, 320-332.	0.6	27



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127	Dielectric spectra of a new relaxor ferroelectric system Ba <sub>2</sub> LnTi <sub>2</sub> Nb <sub>3</sub> O <sub>15</sub> (Ln=La, Nd). Journal of the European Ceramic Society, 2005, 25, 3069-3073.	2.8	26
128	Electro-optic properties of KNN/STO lead-free ceramics. Journal Physics D: Applied Physics, 2005, 38, 679-681.	1.3	26
129	Ferroelectric phase transition in polycrystalline KTaO <sub>3</sub> thin film revealed by terahertz spectroscopy. Applied Physics Letters, 2011, 99, .	1.5	26
130	Large Area Single Crystalline Nanocone Arrays of an Organic Charge Transfer Complex: Controlling Growth, Characterization, and Applications. Small, 2011, 7, 1412-1415.	5.2	26
131	Dielectric Dispersion in Trisarcosine Calcium Chloride (TSCC). Physica Status Solidi (B): Basic Research, 1986, 136, 435-442.	0.7	25
132	Far infrared and submillimetre studies of the ferroelectric phase transition in (VF <sub>2</sub> -F <sub>3</sub> E) copolymers. Phase Transitions, 1988, 12, 305-336.	0.6	25
133	Optical Phonons and Ferroelectric Phase Transition in the LaGeO <sub>5</sub> Crystal. Physica Status Solidi (B): Basic Research, 1999, 214, 423-439.	0.7	25
134	Soft mode behaviour in improper ferroelectrics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1971, 35, 209-210.	0.9	24
135	Vibrational spectroscopy and soft-mode behavior in Rochelle salt. Physical Review B, 1995, 51, 14998-15007.	1.1	24
136	Grain Boundary and Size Effect on the Dielectric, Infrared and Raman Response of SrTiO <sub>3</sub> Nanograin Ceramics. Ferroelectrics, 2008, 363, 227-244.	0.3	24
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