

Ian M Reaney

List of Publications by Year in descending order

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375
papers

20,961
citations

7561

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13365

130
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381
all docs

381
docs citations

381
times ranked

10775
citing authors

#	ARTICLE	IF	CITATIONS
1	A family of oxide ion conductors based on the ferroelectric perovskite Na _{0.5} Bi _{0.5} TiO ₃ . <i>Nature Materials</i> , 2014, 13, 31-35.	13.3	715
2	Dielectric and Structural Characteristics of Ba- and Sr-based Complex Perovskites as a Function of Tolerance Factor. <i>Japanese Journal of Applied Physics</i> , 1994, 33, 3984-3990.	0.8	627
3	Electroceramics for High-Energy Density Capacitors: Current Status and Future Perspectives. <i>Chemical Reviews</i> , 2021, 121, 6124-6172.	23.0	579
4	Microwave Dielectric Ceramics for Resonators and Filters in Mobile Phone Networks. <i>Journal of the American Ceramic Society</i> , 2006, 89, 060428035142006-???	1.9	466
5	Effect of structural changes in complex perovskites on the temperature coefficient of the relative permittivity. <i>Journal of Applied Physics</i> , 1993, 74, 3414-3425.	1.1	397
6	Ultrahigh energy storage density lead-free multilayers by controlled electrical homogeneity. <i>Energy and Environmental Science</i> , 2019, 12, 582-588.	15.6	393
7	Bismuth ferrite-based lead-free ceramics and multilayers with high recoverable energy density. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4133-4144.	5.2	325
8	Orientation of rapid thermally annealed lead zirconate titanate thin films on (111) Pt substrates. <i>Journal of Materials Research</i> , 1994, 9, 2540-2553.	1.2	307
9	Electron diffraction of tilted perovskites. <i>Acta Crystallographica Section B: Structural Science</i> , 2005, 61, 387-399.	1.8	299
10	Crystal chemistry and domain structure of rare-earth doped BiFeO ₃ ceramics. <i>Journal of Materials Science</i> , 2009, 44, 5102-5112.	1.7	290
11	High permittivity and low loss microwave dielectrics suitable for 5G resonators and low temperature co-fired ceramic architecture. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10094-10098.	2.7	271
12	Investigation of Pt/Ti bilayer metallization on silicon for ferroelectric thin film integration. <i>Journal of Applied Physics</i> , 1994, 75, 232-239.	1.1	267
13	Spontaneous (zero-field) relaxor-to ferroelectric phase transition in disordered Pb(Sc _{1/2} Nb _{1/2})O ₃ . <i>Journal of Applied Physics</i> , 1995, 77, 1671-1676.	1.1	265
14	Review of crystal and domain structures in the PbZr _x Ti _{1-x} O ₃ solid solution. <i>Physical Review B</i> , 2005, 72, .	1.1	256
15	Structure-microwave property relations in (Sr _x Ca _(1-x)) _{n+1} Ti _n O _{3n+1} . <i>Journal of the European Ceramic Society</i> , 2001, 21, 1723-1726.	2.8	253
16	Crystal and domain structure of the BiFeO ₃ -PbTiO ₃ solid solution. <i>Journal of Applied Physics</i> , 2003, 94, 3313-3318.	1.1	253
17	Perovskite solar cells: An integrated hybrid lifecycle assessment and review in comparison with other photovoltaic technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 80, 1321-1344.	8.2	240
18	High Energy Storage Density and Large Strain in Bi(Zn _{2/3} Nb _{1/3})O ₃ -Doped BiFeO ₃ -BaTiO ₃ Ceramics. <i>ACS Applied Energy Materials</i> , 2018, 1, 4403-4412.	2.5	229

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19	Nano- and Mesoscale Structure of $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$: A TEM Perspective. <i>Advanced Functional Materials</i> , 2012, 22, 3445-3452.	7.8	226
20	Relation between tolerance factor and $\langle T \rangle$ in Aurivillius compounds. <i>Journal of Materials Research</i> , 2001, 16, 3139-3149.	1.2	223
21	Fabrication and characterization of nanoscale, Er^{3+} -doped, ultratransparent oxy-fluoride glass ceramics. <i>Applied Physics Letters</i> , 2002, 81, 1937-1939.	1.5	213
22	Superior energy density through tailored dopant strategies in multilayer ceramic capacitors. <i>Energy and Environmental Science</i> , 2020, 13, 2938-2948.	15.6	212
23	Dramatic Influence of A-Site Nonstoichiometry on the Electrical Conductivity and Conduction Mechanisms in the Perovskite Oxide $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$. <i>Chemistry of Materials</i> , 2015, 27, 629-634.	3.2	210
24	Use of Raman spectroscopy to determine the site occupancy of dopants in BaTiO_3 . <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	209
25	Investigation of a high T_c piezoelectric system: $(1-x)\text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3-x\text{PbTiO}_3$. <i>Journal of Applied Physics</i> , 2004, 95, 3633-3639.	1.1	190
26	Mechanism of enhanced energy storage density in AgNbO_3 -based lead-free antiferroelectrics. <i>Nano Energy</i> , 2021, 79, 105423.	8.2	180
27	High-Figure-of-Merit Thermoelectric La-Doped A-Site-Deficient SrTiO_3 Ceramics. <i>Chemistry of Materials</i> , 2016, 28, 925-935.	3.2	172
28	Temperature dependent, large electromechanical strain in Nd-doped BiFeO_3 - BaTiO_3 lead-free ceramics. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1857-1860.	2.8	167
29	Novel temperature stable high- μ_r microwave dielectrics in the Bi_2O_3 - TiO_2 - V_2O_5 system. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5357-5362.	2.7	166
30	BiFeO_3 - BaTiO_3 : A new generation of lead-free electroceramics. <i>Journal of Advanced Dielectrics</i> , 2018, 08, 1830004.	1.5	166
31	Niobate-based microwave dielectrics suitable for third generation mobile phone base stations. <i>Applied Physics Letters</i> , 2001, 79, 2952-2954.	1.5	164
32	Nd-doped BiFeO_3 ceramics with antipolar order. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	162
33	Structural changes underlying the diffuse dielectric response in AgNbO_3 . <i>Physical Review B</i> , 2009, 79, .	1.1	161
34	Dielectric loss caused by oxygen vacancies in titania ceramics. <i>Journal of the European Ceramic Society</i> , 2009, 29, 419-424.	2.8	155
35	A Crystal-Chemical Framework for Relaxor versus Normal Ferroelectric Behavior in Tetragonal Tungsten Bronzes. <i>Chemistry of Materials</i> , 2015, 27, 3250-3261.	3.2	153
36	Use of Transmission Electron Microscopy for the Characterization of Rapid Thermally Annealed, Solution-Gel, Lead Zirconate Titanate Films. <i>Journal of the American Ceramic Society</i> , 1994, 77, 1209-1216.	1.9	147

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37	BiVO ₄ based high <i>k</i> microwave dielectric materials: a review. Journal of Materials Chemistry C, 2018, 6, 9290-9313.	2.7	139
38	Ultrahigh energy density in short-range tilted NBT-based lead-free multilayer ceramic capacitors by nanodomain percolation. Energy Storage Materials, 2021, 38, 113-120.	9.5	139
39	BaTiO ₃ -Based Ceramics for Tunable Microwave Applications. Journal of the American Ceramic Society, 2004, 87, 1082-1087.	1.9	132
40	Raman spectroscopy of B-site order-disorder in CaTiO ₃ -based microwave ceramics. Journal of the European Ceramic Society, 2003, 23, 2653-2659.	2.8	131
41	Environmental life cycle assessment and techno-economic analysis of triboelectric nanogenerators. Energy and Environmental Science, 2017, 10, 653-671.	15.6	130
42	Novel BaTiO ₃ -Based, Ag/Pd-Compatible Lead-Free Relaxors with Superior Energy Storage Performance. ACS Applied Materials & Interfaces, 2020, 12, 43942-43949.	4.0	130
43	Raman spectroscopy of CaTiO ₃ -based perovskite solid solutions. Journal of Materials Research, 2004, 19, 488-495.	1.2	128
44	Coupling between octahedral tilting and ferroelectric order in tetragonal tungsten bronze-structured dielectrics. Applied Physics Letters, 2006, 89, 122908.	1.5	125
45	Angular dispersion of oblique phonon modes in BiFeO ₃ micro-Raman scattering. Physical Review B, 2011, 83, .	1.1	123
46	BaTiO ₃ -Bi(Li _{0.5} Ta _{0.5})O ₃ , Lead-Free Ceramics, and Multilayers with High Energy Storage Density and Efficiency. ACS Applied Energy Materials, 2018, 1, 5016-5023.	2.5	123
47	A High-Temperature Capacitor Dielectric Based on K _{0.5} Na _{0.5} NbO ₃ -Bi _{1/2} Na _{1/2} TiO ₃ . Journal of the American Ceramic Society, 2012, 95, 3519-3524.	1.9	121
48	Displacive Phase Transitions and Magnetic Structures in Nd-Substituted BiFeO ₃ . Chemistry of Materials, 2011, 23, 2166-2175.	3.2	120
49	BaTiO ₃ -Bi(Zn _{1/2} Sc _{1/2})O ₃ Ceramics for High-Temperature Capacitor Applications. Journal of the American Ceramic Society, 2012, 95, 3554-3561.	1.9	120
50	Reorientation of magnetic dipoles at the antiferroelectric-paraelectric phase transition of BiFeO ₃ . Physical Review B, 2010, 81, .	1.1	117
51	Integrated hybrid life cycle assessment and supply chain environmental profile evaluations of lead-based (lead zirconate titanate) versus lead-free (potassium sodium niobate) piezoelectric ceramics. Energy and Environmental Science, 2016, 9, 3495-3520.	15.6	116
52	High Quality Factor, Ultralow Sintering Temperature Li ₆ B ₄ O ₉ Microwave Dielectric Ceramics with Ultralow Density for Antenna Substrates. ACS Sustainable Chemistry and Engineering, 2018, 6, 11138-11143.	3.2	115
53	B-site order and infrared reflectivity in A(B TM B [̄])O ₃ complex perovskite ceramics. Journal of Applied Physics, 1994, 76, 2086-2092.	1.1	114
54	Fatigue resistant lead-free multilayer ceramic capacitors with ultrahigh energy density. Journal of Materials Chemistry A, 2020, 8, 11414-11423.	5.2	114

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55	Classification of transition temperature behavior in ferroelectric $\text{PbTiO}_3\text{-Bi}(\text{Me}\epsilon^2\text{Me}\epsilon^3)\text{O}_3$ solid solutions. <i>Journal of Applied Physics</i> , 2006, 99, 024106.	1.1	112
56	Collective dynamics underpins Rayleigh behavior in disordered polycrystalline ferroelectrics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7219-7224.	3.3	112
57	Dielectric and structural studies of $\text{Ba}_2\text{MTi}_2\text{Nb}_3\text{O}_{15}$ (BMTNO15, $\text{M}=\text{Bi}^{3+}, \text{La}^{3+}, \text{Nd}^{3+}, \text{Sm}^{3+}, \text{Gd}^{3+}$) tetragonal tungsten bronze-structured ceramics. <i>Journal of Applied Physics</i> , 2007, 101, 104114.	1.1	110
58	Effect of Nb Doping on the Microstructure of Sol-Gel-Derived PZT Thin Films. <i>Journal of the American Ceramic Society</i> , 1995, 78, 1513-1520.	1.9	109
59	Structure-property relationships of low sintering temperature scheelite-structured $(1-x)\text{TiO}_2\text{-xCaO}$ ferroelectric ceramics. <i>Chemistry C</i> , 2017, 5, 2695-2701.	2.7	109
60	Vacancy ordering in reduced barium titanate. <i>Applied Physics Letters</i> , 2004, 84, 4650-4652.	1.5	108
61	High strain (0.4%) $\text{Bi}(\text{Mg}_{2/3}\text{Nb}_{1/3})\text{O}_3\text{-BaTiO}_3\text{-BiFeO}_3$ lead-free piezoelectric ceramics and multilayers. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5428-5442.	1.9	106
62	On the temperature coefficient of resonant frequency in microwave dielectrics. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001, 81, 501-510.	0.7	103
63	Investigation of relaxors that transform spontaneously into ferroelectrics. <i>Ferroelectrics</i> , 1994, 151, 343-348.	0.3	101
64	Origin of the large electrostrain in $\text{BiFeO}_3\text{-BaTiO}_3$ based lead-free ceramics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21254-21263.	5.2	101
65	Current Understanding of Structure-Processing-Property Relationships in $\text{BaTiO}_3\text{-Bi}(\text{M})\text{O}_3$ Dielectrics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2849-2870.	1.9	99
66	Local structure, pseudosymmetry, and phase transitions in $\text{Na}_x\text{Bi}_{1-x}\text{TiO}_3$ ferroelectric ceramics. <i>Physical Review B</i> , 2013, 87, .	1.1	97
67	Polar order and diffuse scatter in $\text{Ba}(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3$ ceramics. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	95
68	Composition and temperature dependence of structure and piezoelectricity in $(1-x)\text{K}_y\text{Na}_{1-y}\text{NbO}_3\text{-x}(\text{Bi}_{1/2}\text{Na}_{1/2})\text{ZrO}_3$ lead-free ceramics. <i>Journal of the American Ceramic Society</i> , 2017, 100, 627-637.	1.9	93
69	Optimising dopants and properties in BiMeO_3 ($\text{Me} = \text{Al}, \text{Ga}, \text{Sc}, \text{Y}, \text{Mg}_{2/3}\text{Nb}_{1/3}, \text{Zn}_{2/3}\text{Nb}_{1/3}, \text{Zn}_{1/2}\text{Ti}_{1/2}$) lead-free $\text{BaTiO}_3\text{-BiFeO}_3$ based ceramics for actuator applications. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4220-4231.	2.8	92
70	Ti Doping to Reduce Conductivity in $\text{Bi}_{0.85}\text{Nd}_{0.15}\text{FeO}_3$ Ceramics. <i>Advanced Functional Materials</i> , 2011, 21, 3737-3743.	7.8	87
71	Cold-Sintered Temperature Stable $\text{Na}_{0.5}\text{Bi}_{0.5}\text{MoO}_4\text{-Li}_2\text{MoO}_4$ Microwave Composite Ceramics. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2438-2444.	3.2	86
72	Are lead-free piezoelectrics more environmentally friendly?. <i>MRS Communications</i> , 2017, 7, 1-7.	0.8	84

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73	Antiferroelectrics: History, fundamentals, crystal chemistry, crystal structures, size effects, and applications. Journal of the American Ceramic Society, 2021, 104, 3775-3810.	1.9	83
74	Microwave dielectric solid solution phase in system $BaO \cdot (Ln)_2 \cdot 2O \cdot 3TiO_2$ (Ln = lanthanide). Journal of Applied Physics, 2002, 92, 8201-8207.	1.4	82
75	Tunability of ϵ_r in perovskites and related compounds. Journal of Materials Research, 2002, 17, 2033-2040.	1.2	81
76	Role of Defects in the Ferroelectric Relaxor Lead Scandium Tantalate. Journal of the American Ceramic Society, 1995, 78, 1947-1952.	1.9	80
77	Crystal Structure of the Compound $Bi_{2/3}Zn_{1/3}Nb_{4/3}O_7$. Journal of Materials Research, 2002, 17, 1406-1411.	1.2	79
78	Lead-free (Ba,Sr)TiO ₃ - BiFeO ₃ based multilayer ceramic capacitors with high energy density. Journal of the European Ceramic Society, 2020, 40, 1779-1783.	2.8	79
79	Decomposition of NiMn ₂ O ₄ spinel: an NTC thermistor material. Journal of the European Ceramic Society, 2001, 21, 2145-2148.	2.8	78
80	$BaTiO_3 \cdot Bi(Mg_{2/3}Nb_{1/3})O_3$ Ceramics for High Temperature Capacitor Applications. Journal of the American Ceramic Society, 2016, 99, 2089-2095.	1.9	78
81	Controlling mixed conductivity in $Na_{1/2}Bi_{1/2}TiO_3$ using A-site non-stoichiometry and Nb-donor doping. Journal of Materials Chemistry C, 2016, 4, 5779-5786.	2.7	77
82	Microwave dielectric solid solution phase in system $BaO \cdot (Ln)_2 \cdot O_3 \cdot TiO_2$ (Ln = lanthanide cation). International Materials Reviews, 1998, 43, 205-219.	9.4	76
83	Low permittivity cordierite-based microwave dielectric ceramics for 5G/6G telecommunications. Journal of the European Ceramic Society, 2022, 42, 2820-2826.	2.8	76
84	Hydrothermal Synthesis and Crystal Growth Studies of $BaTiO_3$ Using Ti Nanotube Precursors. Crystal Growth and Design, 2008, 8, 3309-3315.	1.4	74
85	<i>In situ</i> Raman spectroscopy of A-site doped barium titanate. Applied Physics Letters, 2007, 91, .	1.5	72
86	Transmission electron microscopy investigation of the high temperature $BiScO_3 \cdot PbTiO_3$ piezoelectric ceramic system. Journal of Applied Physics, 2003, 93, 9271-9274.	1.1	71
87	Comparison of lead zirconate titanate thin films on ruthenium oxide and platinum electrodes. Journal of Applied Physics, 1994, 75, 1521-1525.	1.1	70
88	Novel water insoluble $(Na_xAg_{2-x})MoO_4$ ($0 \leq x \leq 2$) microwave dielectric ceramics with spinel structure sintered at 410 degrees. Journal of Materials Chemistry C, 2017, 5, 6086-6091.	2.7	68
89	Effects of strontium substitution in Nb-doped PZT ceramics. Journal of the European Ceramic Society, 2001, 21, 1371-1375.	2.8	67
90	Structure-microwave property relations of Ca and Sr titanates. Journal of the European Ceramic Society, 2001, 21, 2629-2632.	2.8	66

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91	Early Stages of Crystallization of Sol-Gel-Derived Lead Zirconate Titanate Thin Films. <i>Chemistry of Materials</i> , 2003, 15, 1147-1155.	3.2	66
92	Influence of a Single Grain Boundary on Domain Wall Motion in Ferroelectrics. <i>Advanced Functional Materials</i> , 2014, 24, 1409-1417.	7.8	66
93	Crystal structure and domain wall contributions to the piezoelectric properties of strontium bismuth titanate ceramics. <i>Journal of Applied Physics</i> , 1996, 80, 4223-4225.	1.1	65
94	The osteogenic response of mesenchymal stromal cells to strontium-substituted bioactive glasses. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 619-631.	1.3	64
95	High-temperature $(1-x)\text{BiSc}1-x\text{Fe}1-x\text{O}3-x\text{PbTiO}3$ piezoelectric ceramics. <i>Applied Physics Letters</i> , 2005, 87, 242901.	1.5	63
96	Displacive Ordering Transitions in Perovskite-Like $\text{AgNb}_{1/2}\text{Ta}_{1/2}\text{O}_3$. <i>Chemistry of Materials</i> , 2010, 22, 4987-4995.	3.2	63
97	Continuously controllable optical band gap in orthorhombic ferroelectric $\text{KNbO}_3\text{-BiFeO}_3$ ceramics. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	62
98	Towards revealing key factors in mechanical instability of bioabsorbable Zn-based alloys for intended vascular stenting. <i>Acta Biomaterialia</i> , 2020, 105, 319-335.	4.1	62
99	High Ionic Conductivity with Low Degradation in A-Site Strontium-Doped Nonstoichiometric Sodium Bismuth Titanate Perovskite. <i>Chemistry of Materials</i> , 2016, 28, 5269-5273.	3.2	61
100	Cold sintering of microwave dielectric ceramics and devices. <i>Journal of Materials Research</i> , 2021, 36, 333-349.	1.2	59
101	Crystal Structure, Infrared Spectra, and Microwave Dielectric Properties of Temperature-Stable Zircon-Type $(\text{Y,Bi})\text{VO}_4$ Solid-Solution Ceramics. <i>ACS Omega</i> , 2016, 1, 963-970.	1.6	58
102	High quality factor cold sintered $\text{Li}_2\text{MoO}_4\text{BaFe}_{12}\text{O}_{19}$ composites for microwave applications. <i>Acta Materialia</i> , 2019, 166, 202-207.	3.8	58
103	Circularly Polarized Dielectric-Loaded Antennas: Current Technology and Future Challenges. <i>Advanced Functional Materials</i> , 2008, 18, 2293-2300.	7.8	57
104	Order-disorder behavior in $\text{Ba}(\text{Zn}_{1/3}\text{Ta}_{2/3})\text{O}_3$. <i>Journal of Applied Physics</i> , 2000, 88, 6708-6714.	1.1	56
105	Life cycle assessment and environmental profile evaluation of lead-free piezoelectrics in comparison with lead zirconate titanate. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4922-4938.	2.8	56
106	Enhancement of densification and microwave dielectric properties in LiF ceramics via a cold sintering and post-annealing process. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1726-1729.	2.8	56
107	Composition dependence of the lattice vibrations in $\text{Sr}_{n+1}\text{Ti}_n\text{O}_{3n+1}$ Ruddlesden-Popper homologous series. <i>Journal of the European Ceramic Society</i> , 2003, 23, 2639-2645.	2.8	55
108	Cold-sintered COG Multilayer Ceramic Capacitors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900025.	2.6	55

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109	Direct Integration of Cold Sintered, Temperature-Stable Bi ₂ Mo ₂ O ₉ -K ₂ MoO ₄ Ceramics on Printed Circuit Boards for Satellite Navigation Antennas. Journal of the European Ceramic Society, 2020, 40, 4029-4034.	2.8	52
110	Effects of Octahedral Tilting on the Piezoelectric Properties of Strontium/Barium/Niobium-Doped Soft Lead Zirconate Titanate Ceramics. Journal of the American Ceramic Society, 2002, 85, 2337-2344.	1.9	51
111	Electromechanical strain in Bi _{1/2} (Zn _{1/2} Ti _{1/2})O ₃ -(Bi _{1/2} Na _{1/2})TiO ₃ -(Bi _{1/2} K _{1/2})TiO ₃ solid solutions. Journal of Applied Physics, 2012, 111, .	1.1	51
112	Microwave Dielectric Properties of Gallium-Doped Hexagonal Barium Titanate Ceramics. Journal of the American Ceramic Society, 2003, 86, 511-513.	1.9	50
113	Investigation of high Curie temperature (1-x)BiSc _{1-y} FeyO ₃ -xPbTiO ₃ piezoelectric ceramics. Journal of Applied Physics, 2009, 106, .	1.1	50
114	Temperature stable and fatigue resistant lead-free ceramics for actuators. Applied Physics Letters, 2016, 109, .	1.5	49
115	Molten salt synthesis of MAX phases in the Ti-Al-C system. Journal of the European Ceramic Society, 2018, 38, 4585-4589.	2.8	49
116	Cold sintered CaTiO ₃ -K ₂ MoO ₄ microwave dielectric ceramics for integrated microstrip patch antennas. Applied Materials Today, 2020, 18, 100519.	2.3	48
117	Nucleation and crystallisation of transparent, erbium III-doped, oxyfluoride glass-ceramics. Journal of Non-Crystalline Solids, 2001, 290, 25-31.	1.5	47
118	Raman spectroscopy and microwave properties of CaTiO ₃ -based ceramics. Journal of Applied Physics, 2003, 94, 2948-2956.	1.1	47
119	Domain variance and superstructure across the antiferroelectric/ferroelectric phase boundary in Pb _{1.5-x} La _x (Zr _{0.9} Ti _{0.1})O ₃ . Journal of Materials Research, 2003, 18, 262-271.	1.2	46
120	Low Sintering Temperature Microwave Dielectric Ceramics and Composites Based on Bi ₂ O ₃ -B ₂ O ₃ . Journal of the American Ceramic Society, 2012, 95, 3207-3213.	1.9	46
121	A new relaxor ferroelectric, Ba ₂ LaTi ₂ Nb ₃ O ₁₅ . Journal of Materials Chemistry, 2002, 12, 2609-2611.	6.7	45
122	A new family of ferroelectric tetragonal tungsten bronze phases, Ba ₂ MTi ₂ X ₃ O ₁₅ . Journal of the European Ceramic Society, 2005, 25, 2471-2475.	2.8	45
123	Phase transition and chemical order in the ferroelectric perovskite (1-x)Bi(Mg _{3-4x} W _{1-4x})O ₃ -xPbTiO ₃ solid solution system. Journal of Applied Physics, 2005, 97, 024101.	1.1	45
124	Temperature-dependent crystal structure of ferroelectric Ba ₂ LaTi ₂ Nb ₃ O ₁₅ . Journal of Materials Chemistry, 2005, 15, 798.	6.7	45
125	Cold sintered LiMgPO ₄ based composites for low temperature co-fired ceramic (LTCC) applications. Journal of the American Ceramic Society, 2020, 103, 6237-6244.	1.9	45
126	Low loss Sr _{1-x} CaxLa ₄ Ti ₅ O ₁₇ microwave dielectric ceramics. Materials Research Bulletin, 2011, 46, 1092-1096.	2.7	44

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127	Local stabilisation of polar order at charged antiphase boundaries in antiferroelectric (Bi _{0.85} Nd _{0.15})(Ti _{0.1} Fe _{0.9})O ₃ . APL Materials, 2013, 1, .	2.2	44
128	Formation of apatite layers on modified canasite glass-ceramics in simulated body fluid. Journal of Biomedical Materials Research Part B, 2002, 59, 473-480.	3.0	43
129	DiP256: The temperature coefficient of the relative permittivity of complex perovskites and its relation to structural transformations. Ferroelectrics, 1992, 133, 217-222.	0.3	42
130	Ordering and quality factor in 0.95BaZn _{1/3} Ta _{2/3} O ₃ â€“0.05SrGa _{1/2} Ta _{1/2} O ₃ production resonators. Journal of the European Ceramic Society, 2003, 23, 3021-3034.	2.8	42
131	Structure of the nanocrystals in oxyfluoride glass ceramics. Applied Physics Letters, 2003, 83, 467-469.	1.5	42
132	High frequency dielectric properties of CaTiO ₃ -based microwave ceramics. Journal Physics D: Applied Physics, 2005, 38, 741-748.	1.3	42
133	Domain Wall Motion Across Various Grain Boundaries in Ferroelectric Thin Films. Journal of the American Ceramic Society, 2015, 98, 1848-1857.	1.9	42
134	Novel water-assisting low firing MoO ₃ microwave dielectric ceramics. Journal of the European Ceramic Society, 2019, 39, 2374-2378.	2.8	42
135	Dielectric and structural characteristics of perovskites and related materials as a function of tolerance factor. Ferroelectrics, 1999, 228, 23-38.	0.3	41
136	Kinetic Study of the Static Hydrothermal Synthesis of BaTiO ₃ Using Titanate Nanotubes Precursors. Crystal Growth and Design, 2011, 11, 3358-3365.	1.4	40
137	Temperature dependent piezoelectric response and strainâ€“electric-field hysteresis of rare-earth modified bismuth ferrite ceramics. Journal of Materials Chemistry C, 2016, 4, 7859-7868.	2.7	40
138	Fatigue, rejuvenation and self-restoring in ferroelectric thin films. Integrated Ferroelectrics, 1995, 9, 293-316.	0.3	39
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