

Michael Lanagan

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169
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5,868
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41
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72
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173
ext. papers

6,749
ext. citations

4.2
avg. IF

5.86
L-index

#	Paper	IF	Citations
169	Homogeneous/Inhomogeneous-Structured Dielectrics and their Energy-Storage Performances. <i>Advanced Materials</i> , 2017 , 29, 1601727	24	615
168	Cold Sintering: A Paradigm Shift for Processing and Integration of Ceramics. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11457-61	16.4	229
167	Nanoparticle, Size, Shape, and Interfacial Effects on Leakage Current Density, Permittivity, and Breakdown Strength of Metal Oxide/Polyolefin Nanocomposites: Experiment and Theory. <i>Chemistry of Materials</i> , 2010 , 22, 1567-1578	9.6	209
166	In Situ Catalytic Encapsulation of Core-Shell Nanoparticles Having Variable Shell Thickness: Dielectric and Energy Storage Properties of High-Permittivity Metal Oxide Nanocomposites. <i>Chemistry of Materials</i> , 2010 , 22, 5154-5164	9.6	172
165	. <i>IEEE Antennas and Propagation Magazine</i> , 2013 , 55, 49-61	1.7	160
164	Dielectric relaxation in Bi ₂ O ₃ /ZnO/Nb ₂ O ₅ cubic pyrochlore. <i>Journal of Applied Physics</i> , 2001 , 89, 4512-4516	1.5	149
163	Cold Sintering Process of Composites: Bridging the Processing Temperature Gap of Ceramic and Polymer Materials. <i>Advanced Functional Materials</i> , 2016 , 26, 7115-7121	15.6	143
162	Microwave Dielectric Properties and Low-Temperature Cofiring of BaTe ₄ O ₉ with Aluminum Metal Electrode. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3419-3422	3.8	142
161	BaTiO ₃ -Based Ceramics for Tunable Microwave Applications. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1082-1087	3.8	119
160	Microstructure and critical current density of zone melt textured YBa ₂ Cu ₃ O _{6+x} . <i>Applied Physics Letters</i> , 1990 , 57, 1455-1457	3.4	116
159	Enhanced energy storage and suppressed dielectric loss in oxide core-shell-polyolefin nanocomposites by moderating internal surface area and increasing shell thickness. <i>Advanced Materials</i> , 2012 , 24, 5946-53	24	114
158	Dielectric behavior and impedance spectroscopy in lead-free BNT/BTN perovskite ceramics for energy storage. <i>Ceramics International</i> , 2016 , 42, 9728-9736	5.1	109
157	Dielectric relaxation in dimethyl sulfoxide/water mixtures studied by microwave dielectric relaxation spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 12207-14	2.8	107
156	Supported metallocene catalysis for in situ synthesis of high energy density metal oxide nanocomposites. <i>Journal of the American Chemical Society</i> , 2007 , 129, 766-7	16.4	106
155	Structure and electrical properties of lead-free Bi _{0.5} Na _{0.5} TiO ₃ -based ceramics for energy-storage applications. <i>RSC Advances</i> , 2016 , 6, 59280-59291	3.7	102
154	Energy-storage properties of Bi _{0.5} Na _{0.5} TiO ₃ -BaTiO ₃ -KNbO ₃ ceramics fabricated by wet-chemical method. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 99-106	6	97
153	Cold sintering process: A new era for ceramic packaging and microwave device development. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 669-677	3.8	96

152	Alkali-free glass as a high energy density dielectric material. <i>Materials Letters</i> , 2009 , 63, 1245-1248	3.3	95
151	Microwave dielectric properties of BaO \cdot TeO ₂ binary compounds. <i>Materials Letters</i> , 2007 , 61, 1827-1831	3.3	93
150	Preparation and characterization of dielectric glass-ceramics in Na ₂ O \cdot PbO \cdot Nb ₂ O ₅ BiO ₂ system. <i>Materials Letters</i> , 2005 , 59, 2821-2826	3.3	85
149	Nonlinear dielectric ceramics and their applications to capacitors and tunable dielectrics. <i>IEEE Electrical Insulation Magazine</i> , 2011 , 27, 43-55	2.1	82
148	Crystal structure of the compound Bi ₂ Zn ₂ /3Nb ₄ /3O ₇ . <i>Journal of Materials Research</i> , 2002 , 17, 1406-1411	1.5	76
147	Improved Energy Storage Properties Accompanied by Enhanced Interface Polarization in Annealed Microwave-Sintered BST. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3212-3222	3.8	71
146	Substantial Recoverable Energy Storage in Percolative Metallic Aluminum-Polypropylene Nanocomposites. <i>Advanced Functional Materials</i> , 2013 , 23, 3560-3569	15.6	70
145	Structural and Dielectric Properties in (1-x)BaTiO ₃ -xBi(Mg _{1/2} Ti _{1/2})O ₃ Ceramics (0.1 \leq x \leq 0.5) and Potential for High-Voltage Multilayer Capacitors. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2197-2202	2.8	70
144	Electrical properties and relaxation behavior of Bi _{0.5} Na _{0.5} TiO ₃ -BaTiO ₃ ceramics modified with NaNbO ₃ . <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2469-2477	6	68
143	Correlation between infrared phonon modes and dielectric relaxation in Bi ₂ O ₃ -nO \cdot Nb ₂ O ₅ cubic pyrochlore. <i>Applied Physics Letters</i> , 2002 , 81, 4404-4406	3.4	63
142	Cold sintering process of Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ solid electrolyte. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2123-2135	3.8	62
141	Broadband dielectric characterization of TiO ₂ ceramics sintered through microwave and conventional processes. <i>Ceramics International</i> , 2013 , 39, 299-306	5.1	58
140	Microwave processing of electroceramic materials and devices. <i>Journal of Electroceramics</i> , 2009 , 22, 125-130	1.3	58
139	Barium/Lead-Rich High Permittivity Glass-Ceramics for Capacitor Applications. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 784-788	3.8	58
138	Phase formation and reactions in the Bi ₂ O ₃ -nO \cdot Nb ₂ O ₅ -Ag pyrochlore system. <i>Journal of Materials Research</i> , 2001 , 16, 1460-1464	2.5	57
137	Phase Relations and Dielectric Properties in the Bi ₂ O ₃ -nO \cdot Ta ₂ O ₅ System. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2557-2562	3.8	55
136	FDTD study of resonance Processes in metamaterials. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 1477-1487	4.1	53
135	Crystal Structure and Microwave Dielectric Properties of Alkaline-Earth Hafnates, AHFO ₃ (A=Ba, Sr, Ca). <i>Journal of the American Ceramic Society</i> , 2008 , 91, 893-901	3.8	48

134	Converse flexoelectric coefficient f_{1212} in bulk $\text{Ba}_{0.67}\text{Sr}_{0.33}\text{TiO}_3$. <i>Applied Physics Letters</i> , 2014 , 104, 232902	3.4	45
133	Flexible Glass for High Temperature Energy Storage Capacitors. <i>Energy Technology</i> , 2013 , 1, 313-318	3.5	44
132	Crystallization Kinetics and Phase Development of $\text{PbO}(\text{BaO} \cdot \text{SrO})_{1-x}\text{Nb}_2\text{O}_5\text{B}_2\text{O}_3\text{Bi}_2\text{O}_3$ -Based Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3037-3042	3.8	44
131	Microwave Dielectric Properties of Antiferroelectric Lead Zirconate. <i>Journal of the American Ceramic Society</i> , 1988 , 71, 311-316	3.8	44
130	High energy density capacitor using coal tar pitch derived nanoporous carbon/ MnO_2 electrodes in aqueous electrolytes. <i>Journal of Power Sources</i> , 2011 , 196, 2380-2386	8.9	43
129	Influence of Nonstoichiometry on Extrinsic Electrical Conduction and Microwave Dielectric Loss of $\text{BaCo}_{1/3}\text{Nb}_{2/3}\text{O}_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 4087-4095	3.8	41
128	Zone melt texturing of $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ with silver additions. <i>Physica C: Superconductivity and Its Applications</i> , 1990 , 167, 343-347	1.3	39
127	Integration Concepts for the Fabrication of LTCC Structures. <i>International Journal of Applied Ceramic Technology</i> , 2005 , 2, 514-520	2	38
126	Low-temperature dielectric relaxation in the pyrochlore $(\text{Bi}_{3/4}\text{Zn}_{1/4})_2(\text{Zn}_{1/4}\text{Ta}_{3/4})_2\text{O}_7$ compound. <i>Applied Physics Letters</i> , 2002 , 80, 4807-4809	3.4	38
125	Broadband Dielectric Characterization of Aluminum Oxide (Al_2O_3). <i>Journal of Microelectronics and Electronic Packaging</i> , 2008 , 5, 2-7	0.9	38
124	Dielectric Breakdown of Thinned $\text{BaO}(\text{Al}_2\text{O}_3\text{B}_2\text{O}_3\text{Bi}_2\text{O}_3)$ Glass. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2346-2351	3.8	36
123	Crystallization kinetics and dielectric properties of nanocrystalline lead strontium barium niobates. <i>Journal of Materials Research</i> , 2005 , 20, 438-446	2.5	36
122	Structure and Microwave Dielectric Properties of $\text{Ca}_{1-x}\text{Y}_x\text{Ti}_{1-x}\text{Al}_x\text{O}_3$ (CYTA) Ceramics. <i>Journal of Materials Research</i> , 2005 , 20, 2391-2399	2.5	36
121	Dielectric relaxation and microwave dielectric properties of Bi_2O_3 - ZnO - Ta_2O_5 ceramics. <i>Journal of Materials Research</i> , 2002 , 17, 1502-1506	2.5	35
120	Lithium Thiophosphate Glasses and Glass-Ceramics as Solid Electrolytes: Processing, Microstructure, and Properties. <i>International Journal of Applied Glass Science</i> , 2013 , 4, 414-425	1.8	34
119	Sustainable high capacitance at high frequencies: metallic aluminum-polypropylene nanocomposites. <i>ACS Nano</i> , 2013 , 7, 396-407	16.7	34
118	Permittivity and performance of dielectric pads with sintered ceramic beads in MRI: early experiments and simulations at 3 T. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 269-75	4.4	34
117	Radiofrequency field enhancement with high dielectric constant (HDC) pads in a receive array coil at 3.0T. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 38, 435-40	5.6	34

116	Contrasting energy efficiency in various ceramic sintering processes. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1018-1029	6	32
115	Defect structure-electrical property relationship in Mn-doped calcium strontium titanate dielectric ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4638-4648	3.8	30
114	Cold Sintering: A Paradigm Shift for Processing and Integration of Ceramics. <i>Angewandte Chemie</i> , 2016 , 128, 11629-11633	3.6	30
113	Crystallization Kinetics and Dielectric Properties of Fresnoite BaO \cdot 1/2TiO \cdot 2BiO \cdot 2 Glass \cdot Ceramics. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2642-2647	3.8	30
112	Microwave synthesis of nano-sized barium titanate. <i>Materials Letters</i> , 2008 , 62, 2551-2553	3.3	30
111	Structure and Microwave Dielectric Properties of (Zn \cdot 1 \cdot Cox)TiO \cdot 3 Ceramics. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1874-1878	3.8	29
110	Deep UV Ablation of PMMA Resists. <i>Japanese Journal of Applied Physics</i> , 1983 , 22, L67-L69	1.4	29
109	Dielectric Behavior of the Relaxor Pb(Mg \cdot 1/3Nb \cdot 2/3)O \cdot 3 \cdot PbTiO \cdot 3 Solid-Solution System in the Microwave Region. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 481-483	3.8	27
108	High-Field Dielectric Properties of Oriented Poly(vinylidene fluoride-co-hexafluoropropylene): Structure \cdot Dielectric Property Relationship and Implications for Energy Storage Applications. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1356-1368	4.3	26
107	Thermally Stable Low-Loss Polymer Dielectrics Enabled by Attaching Cross-Linkable Antioxidant to Polypropylene. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14154-14164	9.5	25
106	Atomistic-scale insights into the crosslinking of polyethylene induced by peroxides. <i>Polymer</i> , 2019 , 183, 121901	3.9	25
105	Microwave Sintering Study of NiCuZn Ferrite Ceramics and Devices. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 86-92	1.4	25
104	Two-port transmission line technique for dielectric property characterization of polymer electrolyte membranes. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13551-9	3.4	22
103	Low-temperature sintering and microwave dielectric properties of CaTi \cdot 1 \cdot (Fe \cdot 0.5Nb \cdot 0.5)xO \cdot 3 ceramics with B \cdot 2O \cdot 3 addition. <i>Materials Research Bulletin</i> , 2006 , 41, 1385-1391	5.1	22
102	Transmission electron microscopy investigation of Bi \cdot 2O \cdot 3 \cdot nO \cdot 1 \cdot Nb \cdot 2O \cdot 5 pyrochlore and related phases. <i>Materials Letters</i> , 2002 , 57, 414-419	3.3	22
101	Abnormal high voltage resistivity of polyvinylidene fluoride and implications for applications in high energy density film capacitors. <i>Applied Physics Letters</i> , 2018 , 113, 193903	3.4	22
100	Thermal annealing effects on the energy storage properties of BST ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3550-3557	3.8	21
99	High Q calcium titanate cylindrical dielectric resonators for magnetic resonance microimaging. <i>Journal of Magnetic Resonance</i> , 2009 , 200, 349-53	3	21

98	Effect of oxygen treatment on structure and electrical properties of Mn-doped Ca _{0.6} Sr _{0.4} TiO ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2534-2540	6	20
97	Thermal poling of alkaline earth boroaluminosilicate glasses with intrinsically high dielectric breakdown strength. <i>Journal of Applied Physics</i> , 2012 , 111, 083519	2.5	20
96	Electrode-Limited Dielectric Breakdown of Alkali Free Glass. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 1915-1919	3.8	19
95	Subsolidus phase equilibria of coexisting high-T _c Pb-2223 and 2212 superconductors in the (Bi, Pb)BrTaCu system under 7.5% O ₂ . <i>Journal of Materials Research</i> , 1997 , 12, 2855-2865	2.5	19
94	Bi ₂ O ₃ Solubility of Bi-based Pyrochlores and Related Phases. <i>Journal of Materials Research</i> , 2002 , 17, 1178-1182	2.5	19
93	The effect of imprint on remanent piezoelectric properties and ferroelectric aging of PbZr _{0.52} Ti _{0.48} O ₃ thin films. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5328-5341	3.8	18
92	Dielectric properties of Bi ₂ O ₃ -Nb ₂ O ₅ pyrochlore and zirconolite structure ceramics. <i>Applied Physics Letters</i> , 2003 , 82, 3734-3736	3.4	18
91	Performance of a high T _c superconducting ultralow-loss microwave stripline filter. <i>Applied Physics Letters</i> , 1991 , 58, 977-979	3.4	18
90	Plasma generation by dielectric resonator arrays. <i>Plasma Sources Science and Technology</i> , 2016 , 25, 03LT02	3.5	18
89	Impedance Spectroscopy Studies of Fresnoites in BaO-NiO-Bi ₂ O ₃ System. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 522-530	3.8	17
88	Structure and microwave dielectric properties of (Zn _{1-x} Ni _x)TiO ₃ ceramics. <i>Journal of Materials Research</i> , 2003 , 18, 1067-1072	2.5	16
87	Structure-Property Relationships of BaTi _{1-x} GayNbyO ₃ (0 ≤ x ≤ 0.35) Ceramics. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3055-3062	3.8	16
86	Ionic Conductivity in Sodium-Alkaline Earth-Aluminosilicate Glasses. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1239-1247	3.8	16
85	Improvements of transmit efficiency and receive sensitivity with ultrahigh dielectric constant (uHDC) ceramics at 1.5 T and 3 T. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 2842-2851	4.4	15
84	Control of interfaces on electrical properties of SiO ₂ (2)-Parylene-C laminar composite dielectrics. <i>Journal of Colloid and Interface Science</i> , 2009 , 332, 65-73	9.3	15
83	Energy storage properties of polyimide/BaTiO ₃ nanocomposite films and their breakdown mechanism in a wide content range. <i>Applied Physics Letters</i> , 2019 , 115, 213901	3.4	15
82	Effect of porosity and microstructure on the microwave dielectric properties of rutile. <i>Materials Letters</i> , 2017 , 200, 101-104	3.3	14
81	Enhancement of electrical properties of polyimide films by plasma treatment. <i>Chemical Physics Letters</i> , 2016 , 649, 111-114	2.5	14

80	Activation energy for alkaline-earth ion transport in low alkali aluminoborosilicate glasses. <i>Applied Physics Letters</i> , 2013 , 102, 082904	3.4	13
79	Corrosion Behavior and Interfacial Resistivity of Bipolar Plate Materials under Molten Carbonate Fuel Cell Cathode Conditions. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 916	3.9	13
78	SWR -Band Complex Permittivity Measurements at High Temperature Using Free-Space Methods. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019 , 9, 1011-1019	1.7	12
77	Impedance analysis of amorphous and polycrystalline tantalum oxide sputtered films. <i>Journal of Materials Research</i> , 2011 , 26, 745-753	2.5	12
76	Effect of Lead Loss and Sheath Structure on Phase Formation and Alignment in (Bi,Pb)2Sr2Ca2Cu3O10+Ag Composite Conductors. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2785-2789	3.8	12
75	Enhanced energy storage properties of thermostable sandwich-structured BaTiO3/polyimide nanocomposites with better controlled interfaces. <i>Materials and Design</i> , 2021 , 197, 109270	8.1	12
74	A new silicon-based photoconductive microwave switch. <i>Microwave and Optical Technology Letters</i> , 2009 , 51, 248-252	1.2	11
73	Synthesis and Electrical Properties of Stabilized Manganese Dioxide (MnO2) Thin-Film Electrodes. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 906-909	3.8	11
72	MnO2 Thin Film Electrodes for Enhanced Reliability of Thin Glass Capacitors. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3270-3279	3.8	10
71	Dielectric Properties and Relaxation in (1-x)BiScO3-xBa(Mg1/3Nb2/3)O3 Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1088-1092	3.8	10
70	The influence of Mn doping on the leakage current mechanisms and resistance degradation behavior in lead zirconate titanate films. <i>Acta Materialia</i> , 2021 , 208, 116680	8.4	10
69	A novel, all-dielectric, microwave plasma generator towards development of plasma metamaterials. <i>Applied Physics Express</i> , 2016 , 9, 116201	2.4	10
68	Polarity dependent DC resistance degradation and electrical breakdown in Nb doped PZT films. <i>APL Materials</i> , 2019 , 7, 120901	5.7	10
67	Microwave properties and structure of LaTiSiBDO glass-ceramics for applications in GHz electronics. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 2137-2142	6	9
66	Chemical structure and mechanical properties of soda lime silica glass surfaces treated by thermal polishing in inert and reactive ambient gases. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2951-2964	2.8	9
65	On the impact of self-clearing on electroactive polymer (EAP) actuators. <i>Smart Materials and Structures</i> , 2017 , 26, 105024	3.4	9
64	Large improvement of RF transmission efficiency and reception sensitivity for human in vivo P MRS imaging using ultrahigh dielectric constant materials at 7T. <i>Magnetic Resonance Imaging</i> , 2017 , 42, 158-163	3.3	9
63	Thermodynamic and Electrical Effects of Residual Carbon in Glass Barium Titanate Composites for MLCC Applications. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2415-2419	3.8	9

62	New approaches for designing microstrip filters utilizing mixed dielectrics. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 644-652	4.1	9
61	The Role of Microstructure on Microwave Dielectric Properties of (Ba,Sr)TiO ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 905-910	3.8	9
60	High throughput synthesis and characterization of the PbnNb ₂ O _{5+n} (0.5). <i>Acta Materialia</i> , 2011 , 59, 220182209 8		
59	Dielectric property measurement using a resonant nonradiative dielectric waveguide structure. <i>IEEE Microwave and Wireless Components Letters</i> , 2005 , 15, 104-106	2.6	8
58	Highly stretchable and mechanically tunable antennas based on three-dimensional liquid metal network. <i>Materials Letters</i> , 2020 , 270, 127727	3.3	7
57	Analysis of Electromagnetic Response of 3-D Dielectric Fractals of Menger Sponge Type. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 1305-1313	4.1	7
56	Dielectric Properties of Microporous Glass in the Microwave Region. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 916-921	3.8	7
55	Combined electronic and thermal breakdown Models for polyethylene and polymer laminates. <i>Materials Letters</i> , 2015 , 141, 14-19	3.3	6
54	State of water in starch-water systems in the gelatinization temperature range as investigated using dielectric relaxation spectroscopy. <i>Carbohydrate Polymers</i> , 2012 , 87, 24-31	10.3	6
53	Combining FDTD simulations with measurements of microstrip ring resonators for characterization of low- and high-K dielectrics at microwaves. <i>Microwave and Optical Technology Letters</i> , 2001 , 29, 21-24	1.2	6
52	Y-Ba-Cu-O film deposition by metal organic chemical vapor deposition on buffered metal substrates. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 1523-1526	1.8	6
51	Dielectric polarizability of alkali and alkaline-earth modified silicate glasses at microwave frequency. <i>Applied Physics Letters</i> , 2020 , 116, 222902	3.4	5
50	A link between p-type electrical conduction and microwave dielectric loss in highly ordered Ba(Co _{1/3} Nb _{2/3})O ₃ ceramics. <i>Journal of Materials Research</i> , 2010 , 25, 1011-1014	2.5	5
49	Effects of interfacial modifications on electrical properties of laminar composite dielectrics. <i>Langmuir</i> , 2010 , 26, 18817-23	4	5
48	Symmetry Matching of Hybrid Modes for Dielectric Metamaterials. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 2835-2841	1.4	5
47	Fabricating superconducting joints between Ag-clad BSCCO conductors. <i>Applied Superconductivity</i> , 1995 , 3, 207-214		5
46	Thermally stimulated depolarization current measurements on degraded lead zirconate titanate films. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 5270-5280	3.8	5
45	Plasma surface modification of P(VDF-TrFE): Influence of surface chemistry and structure on electronic charge injection. <i>Journal of Applied Physics</i> , 2018 , 124, 114102	2.5	5

44	High field dielectric properties of clay filled silicone rubber composites. <i>Materials Today Communications</i> , 2020 , 23, 100947	2.5	4
43	Coupled ion redistribution and electronic breakdown in low-alkali boroaluminosilicate glass. <i>Journal of Applied Physics</i> , 2015 , 118, 084101	2.5	4
42	High electric field conduction in low-alkali boroaluminosilicate glass. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 9288-9296	2.1	4
41	DIELECTRIC PROPERTIES OF (Sr _{0.8} Pb _{0.2})TiO ₃ -MgO COMPOSITES AT LOW AND MICROWAVE FREQUENCIES. <i>Integrated Ferroelectrics</i> , 2008 , 104, 90-101	0.8	4
40	Plasma reconfigurable metamaterial using a 6.5 GHz dielectric resonator array. <i>Journal of Applied Physics</i> , 2019 , 126, 203301	2.5	4
39	Development and Experimental Testing of Microstrip Patch Antenna-Inspired RF Probes for 14 T MRI Scanners. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 443-453	4.1	4
38	Toward whole-cortex enhancement with an ultrahigh dielectric constant helmet at 3T. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1123-1134	4.4	4
37	Enhanced mechanical stability of high temperature ultra-thin glass/polymer composite dielectrics. <i>Materials Letters</i> , 2017 , 208, 10-13	3.3	3
36	Improved thermal conductivity and AC dielectric breakdown strength of silicone rubber/BN composites. <i>Composites Part C: Open Access</i> , 2020 , 2, 100023	1.6	3
35	Tunable Ultrahigh Dielectric Constant (tuHDC) Ceramic Technique to Largely Improve RF Coil Efficiency and MR Imaging Performance. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3187-3197	11.7	3
34	Temperature- and Frequency-Dependent Dielectric Properties of Sol-Gel-Derived BaTiO ₃ -NaNbO ₃ Solid Solutions. <i>Journal of Electronic Materials</i> , 2016 , 45, 631-638	1.9	3
33	A study of water sorption effects on the microwave dielectric properties of calcium chloride/silica gel composites. <i>Materials Letters</i> , 2013 , 95, 157-159	3.3	3
32	Phase verification of compact multilayered low temperature co-fired ceramic composite right-/left-handed transmission line. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 1792-1795	1.2	3
31	Improved whole-brain SNR with an integrated high-permittivity material in a head array at 7T. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 1167-1174	4.4	3
30	Glass Dielectrics in Extreme High-Temperature Environment. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 4045-4049	3.8	3
29	Apparatus for controlled microwave exposure of aerosolized pathogens. <i>Review of Scientific Instruments</i> , 2021 , 92, 014707	1.7	3
28	Impedance spectroscopy modeling of lithium borate with silica: A dispersed ionic conductor system. <i>Ceramics International</i> , 2017 , 43, 6796-6806	5.1	2
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