

Xiang Ming Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

266
papers

5,107
citations

38
h-index

55
g-index

274
ext. papers

5,856
ext. citations

3.8
avg, IF

6.13
L-index

#	Paper	IF	Citations
266	Modification of physical properties of Ba(Ni _{1/3} Nb _{2/3})O ₃ ceramics through ordered domain engineering. <i>Journal of Materiomics</i> , 2022 ,	6.7	2
265	Magnetoelectric coupling in Sm substituted 0.67BiFeO ₃ - 0.33BaTiO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2022 , 901, 163681	5.7	0
264	Ultra low loss (Mg _{1-x} Cax) ₂ SiO ₄ dielectric ceramics (x=0 to 0.15) for millimeter wave applications. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 2010	3.8	1
263	Improving ϵ' and thermal conductivity of Ba(Zn _{1/3} Nb _{2/3})O ₃ microwave dielectric ceramics by ordered domain engineering. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 4219-4229	3.8	1
262	Symmetry evolution and modulation of multiferroic characteristics in Bi _{1-x} LaxFeO ₃ ceramics. <i>Applied Physics Letters</i> , 2022 , 120, 132904	3.4	0
261	Distortion modes and ferroelectric properties in hybrid improper ferroelectric Sr ₃ (Sn,Zr)2O ₇ ceramics. <i>Journal of Applied Physics</i> , 2022 , 131, 184102	2.5	
260	Ultrafast Dynamics of Domain Walls in Antiferromagnets and Ferrimagnets with Temperatures of Compensation of the Magnetic Moment and Angular Momentum (Brief Review). <i>JETP Letters</i> , 2021 , 114, 215-226	1.2	1
259	Enhanced multiferroic characteristics in hexagonal ScMn _{1-x} FexO ₃ ceramics. <i>Journal of Applied Physics</i> , 2021 , 129, 134101	2.5	
258	Structure evidence of Pna21 phase and field-induced transition of Pna21/R3c in Bi _{1-x} SmxFe _{0.99} Ti _{0.01} O ₃ ceramics. <i>Applied Physics Letters</i> , 2021 , 118, 142904	3.4	1
257	Enhanced hybrid improper ferroelectricity in Fe/Nb cosubstituted Ca ₃ Mn ₂ O ₇ ceramics. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4000-4013	3.8	1
256	Nonlinear variation of resonant frequency with temperature and temperature-dependent ϵ'' in Al ₂ O ₃ /TiO ₂ microwave dielectric composites. <i>Applied Physics Letters</i> , 2021 , 118, 212902	3.4	2
255	Ferroelectric transition and structural modulation in Sr ₂ Na(Nb _{1-x} Tax) ₅ O ₁₅ tungsten bronze ceramics. <i>Journal of Applied Physics</i> , 2021 , 129, 244107	2.5	4
254	Room-temperature multiferroic characteristics and unique vortex domain structures of h-Yb _{1-x} InxFeO ₃ solid solutions. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 6393	3.8	0
253	Greatly enhanced permittivity in BaTiO ₃ -epoxy dielectric composites with improved connectivity of ceramic phase. <i>Journal of Materiomics</i> , 2021 , 7, 1-7	6.7	5
252	Hybrid improper ferroelectricity in A-site cation ordered Li ₂ La ₂ Ti ₃ O ₁₀ ceramic with triple-layer Ruddlesden-Popper structure. <i>Applied Physics Letters</i> , 2021 , 118, 052903	3.4	2
251	On the measured dielectric constant of amorphous boron nitride. <i>Nature</i> , 2021 , 590, E6-E7	50.4	3
250	Preparation and microwave dielectric properties of BPO ₄ ceramics with ultra-low dielectric constant. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 6660-6667	2.1	1

249	Multiferroic order parameters in rhombic antiferromagnets CrO. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	2
248	Zeolite ceramics with ordered microporous structure and high crystallinity prepared by cold sintering process. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 5521-5528	3.8	0
247	The involvement of Pna21 phase in the multiferroic characteristics of La/Lu co-substituted BiFeO3 ceramics. <i>Applied Physics Letters</i> , 2021 , 119, 112901	3.4	1
246	Theory and application of the vector pair correlation function for real-space crystallographic analysis of order/disorder correlations from STEM images. <i>APL Materials</i> , 2021 , 9, 091110	5.7	1
245	Electric-field-controlled magnetism due to field-induced transition of Pna21/R3c in Bi1-xGdxFeO3 ceramics. <i>Journal of Materiomics</i> , 2021 , 7, 967-975	6.7	1
244	Structure evolution and improved microwave dielectric characteristics in CaTi1-x(Al0.5Nb0.5)xO3 ceramics. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 155435	5.7	5
243	Dense gypsum ceramics prepared by room-temperature cold sintering with greatly improved mechanical properties. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 4689-4693	6	8
242	Enhanced hybrid improper ferroelectricity in Sr3-xBaxSn2O7 ceramics with a Ruddlesden-Popper (RP) structure. <i>Applied Physics Letters</i> , 2020 , 116, 042903	3.4	12
241	Room-temperature-densified H3BO3 microwave dielectric ceramics with ultra-low permittivity and ultra-high Qf value. <i>Journal of Materiomics</i> , 2020 , 6, 233-239	6.7	18
240	Hybrid improper ferroelectricity and pressure-induced enhancement of polarization in Ba3Ce2O7 predicted by a first-principles calculation. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
239	Microwave dielectric properties of SrLa[Ga1-x(Mg0.5Ti0.5)x]O4 and SrLa[Ga1-x(Zn0.5Ti0.5)x]O4 (x=0.2-0.8) ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 790-796	2	4
238	Morphotropic phase boundary (MPB) and enhanced multiferroic characteristics of Bi1-x(Ba0.75Ca0.25)xFe1-xTixO3 ceramics (0.25≤x≤0.35). <i>Journal of Alloys and Compounds</i> , 2020 , 819, 153031	5.7	6
237	Improved hybrid improper ferroelectricity in B-site substituted Ca3Ti2O7 ceramics with a Ruddlesden-Popper structure. <i>Journal of Applied Physics</i> , 2020 , 128, 054102	2.5	8
236	Ba-based complex perovskite ceramics with superior energy storage characteristics. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6389-6399	3.8	6
235	Crossover from normal to relaxor ferroelectric in Sr0.25Ba0.75(Nb1-xTax)2O6 ceramics with tungsten bronze structure. <i>Applied Physics Letters</i> , 2020 , 117, 122902	3.4	3
234	Electrocaloric effect and pyroelectric energy harvesting in diffuse ferroelectric Ba(Ti1-xCex)O3 ceramics. <i>Journal of Electroceramics</i> , 2019 , 43, 106-116	1.5	5
233	Crystal structures, dielectric properties, and phase transition in hybrid improper ferroelectric Sr3Sn2O7-based ceramics. <i>Journal of Applied Physics</i> , 2019 , 125, 044101	2.5	15
232	A-site partially ordered La0.5Y0.5FeO3 and its multiferroic characteristics. <i>Applied Physics Letters</i> , 2019 , 114, 212904	3.4	4

231	Structure and microwave dielectric characteristics of $\text{Sr}_2[\text{Ti}_{1-x}(\text{Al}_{0.5}\text{Nb}_{0.5})_x]\text{O}_4$ ($x=0.50$) ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6137-6146	3.8	9
230	Hybrid improper ferroelectricity and possible ferroelectric switching paths in $\text{Sr}_3\text{Hf}_2\text{O}_7$. <i>Journal of Applied Physics</i> , 2019 , 125, 114105	2.5	10
229	Cold sintering and microwave dielectric properties of dense HfO_2 -II ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5934-5940	3.8	13
228	Aging effect and metastable ferroelectric state in $\text{Ba}_4\text{Eu}_2(\text{Ti}_{0.9}\text{Zr}_{0.1})_4\text{Ta}_6\text{O}_{30}$ tetragonal tungsten bronze ceramic. <i>Applied Physics Letters</i> , 2019 , 114, 082902	3.4	1
227	Conductive, dielectric and magnetic properties of Y-substituted LaFeO_3 ceramics. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 665-672	5.7	9
226	$\text{Ba}_4\text{R}_2\text{Sn}_4\text{Nb}_6\text{O}_{30}$ (R = La, Nd, Sm) lead-free relaxors with filled tungsten bronze structure. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4721-4729	3.8	12
225	Effects of water content during cold sintering process of NaCl ceramics. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 352-357	5.7	15
224	Improved dielectric strength and energy storage density in $\text{Ba}_{6-x}\text{La}_{8+2x}\text{Ti}_{18}\text{O}_{54}$ ($x=0.5, 2/3, \text{ and } 0.75$) ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 1192-1200	3.8	3
223	Effects of structural transition on microwave dielectric properties of $\text{Sr}_3(\text{Ti}_{1-x}\text{Sn}_x)_2\text{O}_7$ ceramics. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 4794-4799	6	12
222	Ferroelectricity and magnetoelectric coupling in hexagonal $\text{Lu}_{0.5}\text{In}_{0.5}\text{FeO}_3$ ceramics. <i>Journal of Applied Physics</i> , 2019 , 126, 164101	2.5	7
221	$(\text{Sr}_{1-x}\text{Ca}_x)_2\text{TiO}_4$ microwave dielectric ceramics with R-P structure ($x=0\sim 0.15$). <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 2040-2046	2	5
220	Symmetry Modulation and Enhanced Multiferroic Characteristics in $\text{Bi}_{1-x}\text{Nd}_x\text{FeO}_3$ Ceramics. <i>Advanced Functional Materials</i> , 2019 , 29, 1806399	15.6	21
219	Preparation and microwave dielectric properties of B_2O_3 bulk. <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 2047-2052	2	7
218	Energy storage properties in $\text{Ba}_5\text{LaTi}_3\text{Ta}_7\text{O}_{30}$ tungsten bronze ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3438-3447	3.8	8
217	High-performance $(1-x)(0.2\text{B}_2\text{O}_3\cdot 0.8\text{SiO}_2)_x\text{TiO}_2$ ($x=0.025\sim 0.1$) glass matrix composites for microwave substrate applications. <i>Journal of Alloys and Compounds</i> , 2019 , 774, 706-709	5.7	7
216	A thermodynamic potential, energy storage performances, and electrocaloric effects of $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ single crystals. <i>Applied Physics Letters</i> , 2018 , 112, 102901	3.4	32
215	Structural and dielectric characteristics of $\text{Ba}_3\text{Ln}_3\text{Ti}_5\text{Nb}_5\text{O}_{30}$ (Ln = La, Nd, Sm) filled tungsten bronze ceramics. <i>Journal of Applied Physics</i> , 2018 , 123, 124106	2.5	2
214	Electric-field-induced phase transition and pinched P-E hysteresis loops in Pb-free ferroelectrics with a tungsten bronze structure. <i>NPG Asia Materials</i> , 2018 , 10, 71-81	10.3	24

213	A Novel Room-Temperature Multiferroic System of Hexagonal $\text{Lu}_{1-x}\text{In}_x\text{FeO}_3$. <i>Advanced Functional Materials</i> , 2018 , 28, 1706062	15.6	23
212	From core-shell $\text{Ba}_{0.4}\text{Sr}_{0.6}\text{TiO}_3/\text{SiO}_2$ particles to dense ceramics with high energy storage performance by spark plasma sintering. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4477-4484	13	55
211	Crystal structural evolution and hybrid improper ferroelectricity in Ruddlesden-Popper $\text{Ca}_{3-x}\text{Sr}_x\text{Ti}_2\text{O}_7$ ceramics. <i>Journal of Applied Physics</i> , 2018 , 123, 014101	2.5	20
210	Plastic deformation and effects of water in room-temperature cold sintering of NaCl microwave dielectric ceramics. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4038-4043	3.8	41
209	Structure and microwave dielectric properties of $\text{SrLa}[\text{Al}_{1-x}(\text{Mg}_{0.5}\text{Ti}_{0.5})_x]\text{O}_4$ ($x = 0.2-0.8$) ceramics. <i>Ceramics International</i> , 2018 , 44, 1984-1990	5.1	11
208	Oxygen-deficient tungsten bronze $\text{Sr}_4\text{Sm}_2\text{Ti}_4+2\text{Nb}_6\text{O}_{30}$ - as a temperature-stable dielectric. <i>Ceramics International</i> , 2018 , 44, S238-S241	5.1	
207	CaTiO_3 linear dielectric ceramics with greatly enhanced dielectric strength and energy storage density. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1999-2008	3.8	71
206	Relaxor nature in $\text{Ba}_5\text{RZr}_3\text{Nb}_7\text{O}_{30}$ (R = La, Nd, Sm) tetragonal tungsten bronze new system. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1623-1631	3.8	16
205	Hybrid improper ferroelectricity in B-site substituted $\text{Ca}_3\text{Ti}_2\text{O}_7$: The role of tolerance factor. <i>Applied Physics Letters</i> , 2018 , 113, 242904	3.4	18
204	Ferroelectric transitions and relaxor behavior in $\text{Ba}_4\text{Sm}_2(\text{Ti}_{1-x}\text{Zr}_x)_4\text{Ta}_6\text{O}_{30}$ tungsten bronze ceramics. <i>Journal of Applied Physics</i> , 2018 , 124, 104102	2.5	5
203	Property-structure relationship in lead-free relaxors $\text{Ba}_5\text{RSn}_3\text{Nb}_7\text{O}_{30}$ with tungsten bronze structure. <i>Applied Physics Letters</i> , 2018 , 113, 142902	3.4	6
202	Structural evolution and enhanced microwave dielectric properties in $\text{Sr}^{2+}/\text{Ti}^{4+}$ co-substituted $\text{SrNd}_2\text{Al}_2\text{O}_7$ ceramics. <i>Journal of Alloys and Compounds</i> , 2018 , 758, 25-31	5.7	6
201	Effects of B site ions on the relaxor to normal ferroelectric transition crossover in $\text{Ba}_4\text{Sm}_2\text{Zr}_4(\text{Nb}_x\text{Ta}_{1-x})_6\text{O}_{30}$ tungsten bronze ceramics. <i>Applied Physics Letters</i> , 2018 , 112, 262904	3.4	17
200	Improper electric polarization in simple perovskite oxides with two magnetic sublattices. <i>Nature Communications</i> , 2017 , 8, 14025	17.4	36
199	Readdressing of Magnetoelectric Effect in Bulk BiFeO_3 . <i>Advanced Functional Materials</i> , 2017 , 27, 1604037	15.6	62
198	Ferroelectric and magnetic properties in $(1-x)\text{BiFeO}_3-x(0.5\text{CaTiO}_3-0.5\text{SmFeO}_3)$ ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4045-4057	3.8	16
197	Atomic scale investigation of enhanced ferroelectricity in $(\text{Ba,Ca})\text{TiO}_3$. <i>RSC Advances</i> , 2017 , 7, 22587-22594	3.7	8
196	Effects of oxygen-deficiency on crystal structure, dielectric and ferroelectric properties in $\text{Sr}_5\text{SmTi}_3+2x\text{Nb}_7-x\text{O}_{30}$ with tungsten bronze structure. <i>RSC Advances</i> , 2017 , 7, 27370-27376	3.7	11

195	SrLa(R _{0.5} Ti _{0.5})O ₄ (R=Mg, Zn) microwave dielectric ceramics with complex K ₂ NiF ₄ -type layered perovskite structure. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2582-2589	3.8	15
194	Crystal structure, ferroelectricity and polar order in a Ba ₄ R ₂ Zr ₄ Nb ₆ O ₃₀ (R = La, Nd, Sm) tetragonal tungsten bronze new system. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4009-4016	7.1	39
193	Sr _{n+1} Ti _n O _{3n+1} (n=1, 2) microwave dielectric ceramics with medium dielectric constant and ultra-low dielectric loss. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 496-500	3.8	27
192	Empirical Evidence for A-Site Order in Perovskites. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 429-442	3.8	5
191	Enhanced energy storage density and its variation tendency in CaZr _x Ti _{1-x} O ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 687-691	5.7	29
190	Origin of the magnetization and compensation temperature in rare-earth orthoferrites and orthochromates. <i>Physical Review B</i> , 2016 , 93,	3.3	43
189	Measurement Error of Temperature Coefficient of Resonant Frequency for Microwave Dielectric Materials by $\text{TE}_{01\delta}$ -Mode Resonant Cavity Method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 3781-3786	4.1	7
188	Dielectric and ferroelectric characteristics of Ba ₄ Pr ₂ Fe ₂ Nb ₈ O ₃₀ tungsten bronze ceramics. <i>Materials Chemistry and Physics</i> , 2016 , 181, 47-53	4.4	14
187	Giant dielectric response with reduced loss in ceramics with nominal composition of La _{1.5} Sr _{0.5} Ni _{0.4} -SiO ₂ . <i>Journal of Electroceramics</i> , 2016 , 37, 73-78	1.5	3
186	Determination of 1:2 Ordered Domain Boundaries in Ba[(Co, Zn, Mg) _{1/3} Nb _{2/3}]O ₃ Dielectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1299-1304	3.8	14
185	Sr ₂ LaAlTiO ₇ : a new Ruddlesden-Popper compound with excellent microwave dielectric properties. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1720-1726	7.1	44
184	Ferroelectric properties and polarization dynamics in Ba ₄ Sm ₂ Ti ₄ Ta ₆ O ₃₀ tungsten bronze ceramics. <i>Applied Physics Letters</i> , 2016 , 108, 152903	3.4	12
183	Structure evolution and piezoelectric properties across the morphotropic phase boundary of Sm-substituted BiFeO ₃ ceramics. <i>Journal of Applied Physics</i> , 2016 , 119, 064104	2.5	35
182	Effect of (Sr _{0.7} Ca _{0.3})TiO ₃ -substitution on structure, dielectric, ferroelectric, and magnetic properties of BiFeO ₃ ceramics. <i>Journal of Applied Physics</i> , 2016 , 119, 204102	2.5	17
181	Structural evolution of SrLaAl _{1-x} (Zn _{0.5} Ti _{0.5}) _x O ₄ ceramics and effects on their microwave dielectric properties. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4684-4691	7.1	75
180	Structure and microwave dielectric characteristics of Sr(La _{1-x} Sm _x) ₂ Al ₂ O ₇ ceramics. <i>RSC Advances</i> , 2016 , 6, 96229-96236	3.7	12
179	Piezoelectric and Dielectric Properties of Multilayered BaTiO ₃ /(Ba,Ca)TiO ₃ /CaTiO ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22309-15	9.5	18
178	Effects of annealing atmospheres on microwave dielectric properties of Ba[(Mg _{1-x} Co _x) _{1/3} Nb _{2/3}]O ₃ ceramics. <i>Materials Research Bulletin</i> , 2015 , 68, 142-149	5.1	4

177	Structure and microwave dielectric properties of Ba[(Mg $1-x$ Ni x) $1/3$ Nb $2/3$]O ₃ ceramics. <i>Materials Research Bulletin</i> , 2015 , 72, 291-298	5.1	13
176	Ferroelectric domain structure evolution in Ba(Zr _{0.1} Ti _{0.9})O ₃ /(Ba _{0.75} Ca _{0.25})TiO ₃ heterostructures. <i>RSC Advances</i> , 2015 , 5, 65811-65817	3.7	2
175	Significantly enhanced ferroelectricity and magnetic properties in (Sr _{0.5} Ca _{0.5})TiO ₃ -modified BiFeO ₃ ceramics. <i>Journal of Applied Physics</i> , 2015 , 117, 174101	2.5	9
174	Tailoring the order-disorder transition and microwave dielectric properties of Ba[(Ni _{0.6} Zn _{0.4}) $1/3$ Nb $2/3$]O ₃ ceramics by Mg-substitution. <i>Materials Chemistry and Physics</i> , 2015 , 165, 142-149	4.4	3
173	Incommensurate and commensurate modulations of Ba ₅ R _{Ti} 3Nb ₇ O ₃₀ (R = La, Nd) tungsten bronzes and the ferroelectric domain structures. <i>Journal of Applied Physics</i> , 2015 , 117, 134108	2.5	16
172	Densification and microwave dielectric properties of Ca _{1.15} Sm _{0.85} Al _{0.85} Ti _{0.15} O ₄ ceramics with B ₂ O ₃ addition. <i>Journal of Alloys and Compounds</i> , 2015 , 653, 351-357	5.7	11
171	Microstructures and Microwave Dielectric Properties of Ba((Co _{0.55} Zn _{0.35} Mg _{0.1}) $1/3$ Nb $2/3$)O ₃ -BaZrO ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 520-527	3.8	7
170	Structure and microwave dielectric properties of SrSmAlO ₄ -Sr ₂ TiO ₄ solid solutions. <i>Journal of Electroceramics</i> , 2015 , 34, 114-121	1.5	7
169	Magnetoelectric effects via pentalinear interactions. <i>Physical Review B</i> , 2015 , 92,	3.3	5
168	Structure and Microwave Dielectric Characteristics of Ca[(Ga $1/2$ Nb $1/2$) $1-x$ Ti x]O ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3185-3191	3.8	9
167	Hybrid Improper Ferroelectricity in Multiferroic Superlattices: Finite-Temperature Properties and Electric-Field-Driven Switching of Polarization and Magnetization. <i>Advanced Functional Materials</i> , 2015 , 25, 3626-3633	15.6	37
166	Sr(Ga _{0.5} Nb _{0.5}) $1-x$ Ti x O ₃ Low-Loss Microwave Dielectric Ceramics with Medium Dielectric Constant. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2534-2540	3.8	31
165	Hybrid improper ferroelectricity in Ruddlesden-Popper Ca ₃ (Ti,Mn) ₂ O ₇ ceramics. <i>Applied Physics Letters</i> , 2015 , 106, 202903	3.4	63
164	Evaluation of the 1:2 ordered structure of Ba(B $1/3$ B $2/3$)O ₃ perovskites along various zone axes using transmission electron microscopy. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10755-10760	7.1	6
163	Predicted energetics and properties of rare-earth ferrites films grown on cubic (111)- and hexagonal (0001)-oriented substrates. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 485901	1.8	5
162	Enhanced energy storage density of Ba _{0.4} Sr _{0.6} TiO ₃ -MgO composite prepared by spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1469-1476	6	174
161	B ₂ O ₃ -modified fused silica microwave dielectric materials with ultra-low dielectric constant. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1799-1805	6	38
160	Crystal Structure and Infrared Reflection Spectra of SrLn ₂ Al ₂ O ₇ (Ln = La, Nd, Sm) Microwave Dielectric Ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2015 , 12, E33-E40	2	13

159	Dielectric and ferroelectric characteristics of $[(\text{Bi}_{0.5}\text{Na}_{0.5})_{0.94}\text{Ba}_{0.06}]_{1-x}\text{Sr}_x\text{TiO}_3$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 1517-1526	2.1	11
158	Effects of oxygen vacancies on dielectric, electrical, and ferroelectric properties of $\text{Ba}_4\text{Nd}_2\text{Fe}_2\text{Nb}_8\text{O}_{30}$ ceramics. <i>Applied Physics Letters</i> , 2014 , 104, 082912	3.4	45
157	Near room-temperature multiferroic materials with tunable ferromagnetic and electrical properties. <i>Nature Communications</i> , 2014 , 5, 4021	17.4	127
156	Atomistic theory of hybrid improper ferroelectricity in perovskites. <i>Physical Review B</i> , 2014 , 89,	3.3	40
155	Effects of Bi-Substitution on Dielectric and Ferroelectric Properties of Yttrium Iron Garnet Ceramics. <i>Ferroelectrics</i> , 2014 , 458, 25-30	0.6	1
154	Creating multiferroics with large tunable electrical polarization from paraelectric rare-earth orthoferrites. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 472201	1.8	32
153	Contribution of oxygen vacancies to the giant dielectric response in $\text{Sm}_{1.5}\text{Sr}_{0.5}\text{NiO}_4$ ceramics. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 1421-1427	2.6	4
152	Local Structure Evolution in Ba-Substituted $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2880-2884	3.8	3
151	Ferroelectric Transition and Low-Temperature Dielectric Relaxations in Filled Tungsten Bronzes. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 329-338	3.8	67
150	Effects of A1/A2-Sites Occupancy upon Ferroelectric Transition in $(\text{Sr}_x\text{Ba}_{1-x})\text{Nb}_2\text{O}_6$ Tungsten Bronze Ceramics. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 507-512	3.8	38
149	Microwave Dielectric Properties of Fused Silica Prepared by Different Approaches. <i>International Journal of Applied Ceramic Technology</i> , 2014 , 11, 193-199	2	28
148	Giant room-temperature magnetodielectric coupling in spark plasma sintered brownmillerite ceramics. <i>Applied Physics Letters</i> , 2014 , 105, 222906	3.4	15
147	Structure Evolution and Enhanced Microwave Dielectric Characteristics of $(\text{Sr}_{1-x}\text{Ca}_x)\text{La}_2\text{Al}_2\text{O}_7$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3531-3536	3.8	15
146	Effects of chemical and hydrostatic pressures on structural, magnetic, and electronic properties of R_2NiMnO_6 (R=rare earth ion) double perovskites. <i>Physical Review B</i> , 2014 , 90,	3.3	30
145	Frequency-Dependent Qf Value of Microwave Dielectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3041-3043	3.8	11
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143	Characterization of Microstructures and Defects in SrSmAlO_4 -Based Microwave Dielectric Ceramics by TEM. <i>Ferroelectrics</i> , 2014 , 470, 117-125	0.6	2
142	Effects of Postdensification Annealing upon Microstructures and Microwave Dielectric Characteristics in $\text{Ba}((\text{Co}_{0.6x}/2\text{Zn}_{0.4x}/2\text{Mgx})_{1/3}\text{Nb}_{2/3})\text{O}_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3417-3424	3.8	29

141	Synthesis of SrLaAlO ₄ fine ceramic powders by co-precipitation process. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2445-2452	2.1	6
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139	Enhanced dielectric and ferroelectric characteristics in Ca-modified BaTiO ₃ ceramics. <i>AIP Advances</i> , 2013 , 3, 082125	1.5	49
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136	Effects of Postdensification Annealing on Microwave Dielectric Properties of Ba([Mg _{1-x} Co _x] _{1/3} Nb _{2/3})O ₃ Ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2013 , 10, E210-E218	2	11
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131	Dielectric and ferroelectric properties of Ba _{1-x} Sr _x TiO ₃ ceramics: effects of grain size and ferroelectric domain. <i>Advances in Applied Ceramics</i> , 2013 , 112, 270-276	2.3	14
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129	Structure and Microwave Dielectric Characteristics of Solid Solutions in SrNdAlO ₄ -Sr ₂ TiO ₄ System. <i>International Journal of Applied Ceramic Technology</i> , 2013 , 10, E70-E76	2	5
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21	Dielectric Ceramics with Tungsten-bronze Structure in the BaO-Nd ₂ O ₃ -TiO ₂ -Nb ₂ O ₅ System. <i>Journal of Materials Research</i> , 2002 , 17, 1664-1670	2.5	67
20	Sol-gel Preparation of BaTi ₄ O ₉ and Ba ₂ Ti ₉ O ₂₀ . <i>Journal of the American Ceramic Society</i> , 2001 , 84, 669-673		24
19	Dielectric properties of La-substituted Pb _{0.5} Ca _{0.5} [(Mg _{1/3} Nb _{2/3}) _{0.5} Ti _{0.5}]O ₃ ceramics. <i>Journal of Materials Research</i> , 2001 , 16, 2053-2056	2.5	
18	Structures and microwave dielectric properties of Ba _{6-3x} (Nd,Bi) _{8+2x} Ti ₁₈ O _{54x = 2/3} solid solution. <i>Journal of Materials Research</i> , 2001 , 16, 1734-1738	2.5	29
17	Effects of Ca and Sr substitution on dielectric properties in ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2000 , 11, 219-223	2.1	7
16	Modification of Ba ₄ Sm ₂ Ti ₄ Ta ₆ O ₃₀ dielectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2000 , 11, 509-511	2.1	

15	Synthesis of Ba _{6-3x} Nd _{8+2x} Ti ₁₈ O ₅₄ ceramic powders via citric acid precursor. <i>Journal of Materials Science: Materials in Electronics</i> , 2000 , 11, 633-636	2.1	7
14	Dielectric ceramics in the BaO-Sm ₂ O ₃ -TiO ₂ -Ta ₂ O ₅ quaternary system. <i>Journal of Materials Research</i> , 2000 , 15, 125-129	2.5	38
13	Characterization of CaTiO ₃ -modified Pb(Mg _{1/3} Nb _{2/3})O ₃ dielectrics. <i>Journal of Applied Physics</i> , 2000 , 87, 2516-2519	2.5	8
12	Temperature-stable dielectric ceramics in Ba ₄ Nd ₂ Ti ₄ Ta ₆ O ₃₀ /(La _{0.1} Bi _{0.9}) ₂ Ti ₂ O ₇ biphas system. <i>Journal of Materials Research</i> , 1999 , 14, 3375-3378	2.5	5
11	Ba ₄ Nd ₂ Ti ₄ Ta ₆ O ₃₀ dielectric ceramics modified by Bi substitution for Nd. <i>Journal of Materials Science: Materials in Electronics</i> , 1999 , 10, 483-486	2.1	5
10	Dielectric ceramics of Ba _{6-3x} Nd _{8+2x} (Zr,Ti) ₁₈ O ₅₄ . <i>Ferroelectrics</i> , 1999 , 233, 271-277	0.6	8
9	Composite piezoelectric ceramics in the PZT-SrBi ₂ Ta ₂ O ₉ system. <i>Journal of Materials Science: Materials in Electronics</i> , 1997 , 8, 147-150	2.1	4
8	Dielectric characteristics of composite ceramics in the Ba(Mg _{1/3} Ta _{2/3})O ₃ -BaO □Nd ₂ O ₃ □5TiO ₂ system. <i>Journal of Materials Science</i> , 1996 , 31, 4853-4857	4.3	2
7	Dielectric characteristics of Ba(Mg _{1/3} Ta _{2/3})O ₃ ceramics sintered at low temperatures. <i>Journal of Materials Science: Materials in Electronics</i> , 1996 , 7, 369	2.1	5
6	Effects of NaF upon sintering temperature of Ba(Mg _{1/3} Ta _{2/3})O ₃ dielectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 1996 , 7, 427	2.1	6
5	Crystallization characteristics of LiNbO ₃ derived from sol-gel. <i>Journal of Materials Science: Materials in Electronics</i> , 1996 , 7, 51	2.1	3
4	Dielectric composite ceramics in Ba(Mg _{1/3} Ta _{2/3})O ₃ -BaONd ₂ O ₃ 5TiO ₂ system. <i>Journal of Materials Science Letters</i> , 1995 , 14, 1041-1042		7
3	Review of experimental progress of hybrid improper ferroelectricity in layered perovskite oxides. <i>Journal Physics D: Applied Physics</i> ,	3	2
2	Structure and microwave dielectric characteristics of Hf _{1-x} Ti _x O ₂ ceramics. <i>Journal of the American Ceramic Society</i> ,	3.8	1
1	Ordered domain engineering and physical property modification of Ba(Co _{1/3} Nb _{2/3})O ₃ complex perovskite ceramics. <i>Journal of the American Ceramic Society</i> ,	3.8	4