

# Dae Su Kim

## List of Publications by Citations

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143  
papers

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45  
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149  
ext. papers

2,999  
ext. citations

3.8  
avg, IF

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L-index

#	Paper	IF	Citations
143	Effect of CuO on the Sintering Temperature and Piezoelectric Properties of (Na <sub>0.5</sub> K <sub>0.5</sub> )NbO <sub>3</sub> Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 2374-2377	3.8	126
142	Microstructure and Piezoelectric Properties of (1-x)(Na <sub>0.5</sub> K <sub>0.5</sub> )NbO <sub>3</sub> -xLiNbO <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 1812-1816	3.8	94
141	Synthesis of BaCu(B <sub>2</sub> O <sub>5</sub> ) Ceramics and their Effect on the Sintering Temperature and Microwave Dielectric Properties of Ba(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 3124-3128	3.8	90
140	Effect of Zn/Si Ratio on the Microstructural and Microwave Dielectric Properties of Zn <sub>2</sub> SiO <sub>4</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 3127-3130	3.8	88
139	Effect of ZnO and CuO on the Sintering Temperature and Piezoelectric Properties of a Hard Piezoelectric Ceramic. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 921-925	3.8	82
138	Microstructure and Microwave Dielectric Properties of Ba(Zn <sub>1/3</sub> Ta <sub>2/3</sub> )O <sub>3</sub> Ceramics with ZrO <sub>2</sub> Addition. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 85, 165-168	3.8	77
137	Synthesis and Microwave Dielectric Properties of MgSiO <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 2747-2750	3.8	76
136	Sintering Behavior of Lead-Free (K,Na)NbO <sub>3</sub> -Based Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 2033-2038	3.8	73
135	Formation Process and Microwave Dielectric Properties of the R <sub>2</sub> V <sub>2</sub> O <sub>7</sub> (R=Ba, Sr, and Ca) Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 3092-3094	3.8	69
134	Microstructure and piezoelectric properties of the CuO-added (Na <sub>0.5</sub> K <sub>0.5</sub> )(Nb <sub>0.97</sub> Sb <sub>0.03</sub> )O <sub>3</sub> lead-free piezoelectric ceramics. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 034103	2.5	67
133	Synthesis and Microwave Dielectric Properties of Re <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> (Re: Nd, Sm, Eu, Dy, Yb, and Y) Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 641-644	3.8	64
132	Microstructure and Piezoelectric Properties of 0.95(Na <sub>0.5</sub> K <sub>0.5</sub> )NbO <sub>3</sub> -0.05SrTiO <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 1946-1949	3.8	62
131	Crystal structure and microwave dielectric properties of La(Mg <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> ceramics. <i>Journal of Materials Science Letters</i> , <b>2000</b> , 19, 131-134		61
130	Effect of MnO <sub>2</sub> on the Piezoelectric Properties of the 0.75Pb(Zr <sub>0.47</sub> Ti <sub>0.53</sub> )O <sub>3</sub> -0.25Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 2537-2540	3.8	54
129	Synthesis of ZnxCd <sub>1-x</sub> Se (0 ≤ x ≤ 1) alloyed nanowires for variable-wavelength photodetectors. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2386		54
128	Superhydrophobic and antireflective nanograss-coated glass for high performance solar cells. <i>Nano Research</i> , <b>2014</b> , 7, 670-678	10	52
127	VO <sub>2</sub> /WO <sub>3</sub> -Based Hybrid Smart Windows with Thermo-chromic and Electrochromic Properties. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 7111-7117	8.3	51

126	Co-Firing and Shrinkage Matching in Low- and Middle- Permittivity Dielectric Compositions for a Low-Temperature Co-Fired Ceramics System. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 562-567	3.8	45
125	Low Temperature Sintering and Microwave Dielectric Properties of B2O3-added LiAlSiO4 Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 1995-1998	3.8	42
124	High Energy Density Piezoelectric Ceramics for Energy Harvesting Devices. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 3629-3631	3.8	40
123	Piezoelectric nanogenerators synthesized using KNbO3 nanowires with various crystal structures. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 18547-18553	13	37
122	Low-Temperature Sintering and Piezoelectric Properties of 0.65Pb(Zr1-xTi)xO3-0.35Pb(Ni0.33Nb0.67)O3 Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 3442-3448	3.8	37
121	Low-Temperature Sintering and Piezoelectric Properties of (Na0.5K0.5)NbO3 Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 36-39	3.8	36
120	Formation and Microwave Dielectric Properties of the Mg2V2O7 Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 1621-1624	3.8	36
119	Superior Additive of Exfoliated RuO2 Nanosheet for Optimizing the Electrode Performance of Metal Oxide over Graphene. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 11786-11796	3.8	36
118	Dielectric and piezoelectric properties of (1-x)(Na0.5K0.5)NbO3-xBaTiO3 ceramics. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 6784-6797	4.3	35
117	High-temperature thermoelectric properties of nanostructured Ca3Co4O9 thin films. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 142102	3.4	33
116	Low-Temperature Sintering and Microwave Dielectric Properties of the Zn2SiO4 Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 671-674	3.8	33
115	Effect of CuO on the Sintering and Piezoelectric Properties of 0.95(Na0.5K0.5)NbO3-0.05SrTiO3 Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 3955-3960	3.8	32
114	Dielectric and piezoelectric properties of ceramic-polymer composites with 0B connectivity type. <i>Journal of Electroceramics</i> , <b>2013</b> , 30, 30-35	1.5	30
113	Effect of cooling rate on phase transitions and ferroelectric properties in 0.75BiFeO3-0.25BaTiO3 ceramics. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 202902	3.4	30
112	A generalized rule for large piezoelectric response in perovskite oxide ceramics and its application for design of lead-free compositions. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 114108	2.5	28
111	Piezoelectric properties of Pb(Zr,Ti)O3-Pb(Ni,Nb)O3 ceramics and their application in energy harvesters. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 3935-3942	6	27
110	Piezoelectric Energy Harvesting Design Principles for Materials and Structures: Material Figure-of-Merit and Self-Resonance Tuning. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002208	24	27
109	Piezoelectric Properties of Lead-free Piezoelectric Ceramics and Their Energy Harvester Characteristics. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 1024-1028	3.8	26

108	Structural and piezoelectric properties of textured PZT-PZNN piezoelectric ceramics. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 5681-5692	3.8	24
107	Electrical Properties of Amorphous $\text{Bi}_{0.5}\text{Nb}_{0.3}\text{O}_{15}$ Thin Film for RF MIM Capacitors. <i>IEEE Electron Device Letters</i> , <b>2008</b> , 29, 684-687	4.4	24
106	Low Temperature Sintering of BaTi4O9-Based Middle-k Dielectric Composition for LTCC Applications. <i>Journal of Electroceramics</i> , <b>2005</b> , 14, 157-162	1.5	24
105	Effect of B2O3 and CuO on the sintering temperature and microwave dielectric properties of the BaTi4O9 ceramics. <i>Journal of Electroceramics</i> , <b>2006</b> , 17, 393-397	1.5	23
104	High-Performance (Na0.5K0.5)NbO3 Thin Film Piezoelectric Energy Harvester. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 119-124	3.8	22
103	Growth Behavior and Electrical Properties of a (Na0.5K0.5)NbO3 Thin Film Deposited on a Pt/Ti/SiO2/Si Substrate Using RF Magnetron Sputtering. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 1970-1973	3.8	22
102	Low-Temperature Sintering and Microwave Dielectric Properties of V2O5-Added Zn2SiO4 Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 4133-4136	3.8	22
101	Independent chemical/physical role of combusive exothermic heat in solution-processed metal oxide semiconductors for thin-film transistors. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 1457-1462	7.1	20
100	Enhancement of Mechanical Hardness in SnOxNy with a Dense High-Pressure Cubic Phase of SnO2. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7051-7057	9.6	18
99	Flexible Indium-Tin Oxide Crystal on Plastic Substrates Supported by Graphene Monolayer. <i>Scientific Reports</i> , <b>2017</b> , 7, 3131	4.9	18
98	Investigation on the Electric Properties of $\text{Bi}_{1.5}\text{ZnNb}_{1.5}\text{O}_7$ Thin Films Grown on TiN Substrate for MIM Capacitors. <i>IEEE Electron Device Letters</i> , <b>2008</b> , 29, 334-337	4.4	18
97	Enhanced piezoelectric properties of vertically aligned single-crystalline NKN nano-rod arrays. <i>Scientific Reports</i> , <b>2015</b> , 5, 10151	4.9	17
96	Low-Temperature Sintering and Microwave Dielectric Properties of the Li2CO3-Added Ba2V2O7 Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 934-936	3.8	17
95	Effect of the structural properties on the energy density of $\text{Pb}(\text{Zr}_{0.47}\text{Ti}_{0.53})\text{O}_3\text{-Pb}[(\text{Ni}_{0.6}\text{Zn}_{0.4})_{1/3}\text{Nb}_{2/3}]\text{O}_3$ ceramics. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 084111-2-5	17	
94	Large Strain in CuO-added (Na0.2K0.8)NbO3 Ceramic for Use in Piezoelectric Multilayer Actuators. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 938-945	3.8	15
93	Low-Temperature Sintering and Piezoelectric Properties of CuO-Added KNbO3 Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 3897-3903	3.8	15
92	Effect of Li2CO3 Addition on the Sintering Temperature and Microwave Dielectric Properties of Mg2V2O7 Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 2151-2154	3.8	15
91	Orthorhombic-pseudocubic phase transition and piezoelectric properties of (Na0.5K0.5)(Nb1-xSbx)-SrZrO3 ceramics. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 4827-4835	3.8	14

90	Thermally stable high strain and piezoelectric characteristics of (Li, Na, K)(Nb, Sb)O <sub>3</sub> -CaZrO <sub>3</sub> ceramics for piezo actuators. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 6115-6125	3.8	14
89	Large Electrostrain in K(Nb <sub>1-x</sub> Mnx)O <sub>3</sub> Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 4031-4038	3.8	14
88	Hydrothermal Synthesis of BaTiO <sub>3</sub> Nanopowders Using TiO <sub>2</sub> Nanoparticles. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 346-349	3.8	14
87	Effect of Bi <sub>2</sub> O <sub>3</sub> Doping on the Sintering Temperature and Microwave Dielectric Properties of LiAlSiO <sub>4</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 1811-1813	3.8	14
86	Effect of Bi <sub>2</sub> O <sub>3</sub> Addition on the Sintering Temperature and Microwave Dielectric Properties of Zn <sub>2</sub> SiO <sub>4</sub> Ceramics. <i>International Journal of Applied Ceramic Technology</i> , <b>2009</b> , 6, 581-586	2	14
85	Electrophoretic deposition of Ca <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub> nanosheets synthesized by soft-chemical exfoliation. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 178-184	7.1	13
84	Piezoelectric properties of (Na <sub>0.5</sub> K <sub>0.5</sub> )(Nb <sub>1-x</sub> Sbx)O <sub>3</sub> -SrTiO <sub>3</sub> ceramics with tetragonal-pseudocubic PPB structure. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 3997-4010	3.8	12
83	Structural and Piezoelectric Properties of (1-x)Pb(Zr <sub>1-y</sub> Tiy)O <sub>3</sub> -Pb(Zn <sub>0.4</sub> Ni <sub>0.6</sub> ) <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> Ceramics Near Triple Point. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 2887-2893	3.8	12
82	Sintering Mechanism and Microwave Dielectric Properties of Bi <sub>12</sub> TiO <sub>20</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 3742-3746	3.8	12
81	Various cubic-based polymorphic phase boundary structures in (1-y)(Na <sub>0.5</sub> K <sub>0.5</sub> )(Nb <sub>1-x</sub> Sbx)-yCaTiO <sub>3</sub> ceramics and their piezoelectric properties. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 973-985	6	12
80	Piezoelectric Ceramics for Use in Multilayer Actuators and Energy Harvesters. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 3157-3163	3.8	11
79	Low-Temperature Sintering and Piezoelectric Properties of CuO-Added 0.95(Na <sub>0.5</sub> K <sub>0.5</sub> )NbO <sub>3</sub> 0.05BaTiO <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 070926022312005-???	3.8	11
78	Synthesis and Microwave Dielectric Properties of Bi <sub>4</sub> (SiO <sub>4</sub> ) <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 3461-3464	3.8	11
77	Pseudocubic-based polymorphic phase boundary structures and their effect on the piezoelectric properties of (Li,Na,K)(Nb,Sb)O <sub>3</sub> -SrZrO <sub>3</sub> lead-free ceramics. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 784, 1334-1343	5.7	11
76	Effect of B <sub>2</sub> O <sub>3</sub> on the Sintering Condition and Microwave Dielectric Properties of Bi <sub>4</sub> (SiO <sub>4</sub> ) <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 4165-4167	3.8	10
75	Chemical and micro-structural changes in glass-like carbon during high temperature heat treatment. <i>Macromolecular Research</i> , <b>2003</b> , 11, 122-127	1.9	10
74	Direct and indirect measurements of the electro-caloric effect in (Bi,Na)TiO <sub>3</sub> -SrTiO <sub>3</sub> ceramics. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 234101	2.5	10
73	Microstructures and Microwave Dielectric Properties of Bi <sub>2</sub> O <sub>3</sub> -Deficient Bi <sub>12</sub> SiO <sub>20</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 2225-2229	3.8	9

72	TEM Observations on 0.65Pb(Zr0.42Ti0.58)O3-0.35Pb(Ni0.33Nb0.67)O3 Ceramics with CuO Additive. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 312-317	3.8	9
71	High-Performance Metal/Insulator/Metal Capacitors Using Amorphous $\text{BaSm}_{2}\text{Ti}_{4}\text{O}_{12}$ Thin Film. <i>IEEE Electron Device Letters</i> , <b>2007</b> , 28, 17-20	4.4	9
70	Sodium-potassium niobate nanorods with various crystal structures and their application to nanogenerator. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 1673-1681	3.8	8
69	Synthesis of Sr2Nb3O10 nanosheets and their application for growth of thin film using an electrophoretic method. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 1098-1107	3.8	8
68	Carbon nanotube/graphene oxide-added CaO-B2O3-SiO2 glass/Al2O3 composite as substrate for chip-type supercapacitor. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 3156-3167	3.8	8
67	Piezoelectric properties of (Na1-xKx)NbO3-based lead-free piezoelectric ceramics and their application in knocking sensor. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 5367-5373	3.8	8
66	Electric field assembled anisotropic alumina composite for thermal dissipation applications. <i>Journal of Composite Materials</i> , <b>2014</b> , 48, 201-208	2.7	8
65	Large in-plane permittivity of Ba0.6Sr0.4TiO3 thin films crystallized using excimer laser annealing at 300 °C. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 242910	3.4	8
64	Microstructure and Microwave Dielectric Properties of the Li2CO3-Added Sr2V2O7 Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 2132-2135	3.8	8
63	Microstructural and Microwave Dielectric Properties of Bi12GeO20 and Bi2O3-Deficient Bi12GeO20 Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 2361-2367	3.8	8
62	Effect of Sn Doping on the Thermoelectric Properties of n-type Bi2(Te,Se)3 Alloys. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 1926-1930	1.9	7
61	Review of Sintering Technologies, Structural Characteristics, and Piezoelectric Properties of NKN-Based Lead-Free Ceramics. <i>Transactions on Electrical and Electronic Materials</i> , <b>2019</b> , 20, 385-402	1.7	7
60	Microstructure and luminescent properties of Eu2W2O9 phosphors. <i>Journal of Electroceramics</i> , <b>2009</b> , 22, 98-104	1.5	7
59	Effect of particle size distribution on microstructure and piezoelectric properties of MnO2-added 0.95(K0.5Na0.5)NbO3/0.5BaTiO3 ceramics. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 6016-6019	4.3	7
58	Structural and microwave dielectric properties of La(Mg2/3Nb1/3)O3 ceramics. <i>Journal of Materials Science Letters</i> , <b>1999</b> , 18, 889-894		7
57	Single-step plasma-induced hierarchical structures for tunable water adhesion. <i>Scientific Reports</i> , <b>2020</b> , 10, 874	4.9	6
56	Structural and Piezoelectric Properties of (Na1-xKx)NbO3 Platelets and Their Application for Piezoelectric Nanogenerator. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 3476-3484	3.8	6
55	Electrical Properties of a 0.95(Na0.5K0.5)NbO3/0.05CaTiO3 Thin Film Grown on a Pt/Ti/SiO2/Si Substrate. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2892-2896	3.8	6

54	Structural variation of hydrothermally synthesized KNbO <sub>3</sub> nanowires. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 114314	2.5	6
53	Electrical Properties of $\text{Bi}_{1-x}\text{Nb}_x\text{O}_{15}$ Thin Film Grown on $\text{TiN}/\text{SiO}_2/\text{Si}$ at Room Temperature for Metal-Insulator-Metal Capacitors. <i>IEEE Electron Device Letters</i> , <b>2009</b> , 30, 614-616	4.4	6
52	Effects of K <sub>2</sub> O Evaporation on the Structural Properties of KSbO <sub>3</sub> Compounds. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 2229-2232	3.8	6
51	Polymeric mold soft-patterned metal oxide field-effect transistors: critical factors determining device performance. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 8486-8491	7.1	5
50	Microwave Dielectric Properties and Chemical Resistance of Low-Temperature-Sintered CaZrB <sub>2</sub> O <sub>6</sub> Ceramics. <i>International Journal of Applied Ceramic Technology</i> , <b>2009</b> , 6, 587-592	2	5
49	A study on the friction and thrust force of the shaft and mobile element in the impact typed piezoelectric ultrasonic linear motor. <i>Journal of Electroceramics</i> , <b>2006</b> , 17, 499-503	1.5	5
48	Relationship between piezoelectric properties of ceramics and output performance of 33-mode piezoelectric energy harvesters. <i>Smart Materials and Structures</i> , <b>2018</b> , 27, 115027	3.4	5
47	Thermally stable large strain in low-loss (Na <sub>0.2</sub> K <sub>0.8</sub> )NbO <sub>3</sub> -BaZrO <sub>3</sub> for multilayer actuators. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 6837-6849	3.8	4
46	Direct Growth of Ferroelectric Oxide Thin Films on Polymers through Laser-Induced Low-Temperature Liquid-Phase Crystallization. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6483-6493	9.6	4
45	Enhanced Energy Harvesting Using Multilayer Piezoelectric Ceramics. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 6964-6971	1.9	4
44	Energy harvesting characteristics of unimorph cantilever generator using 0.69Pb(Zr <sub>0.47</sub> Ti <sub>0.53</sub> )O <sub>3</sub> -0.31Pb(Ni <sub>0.6</sub> Zn <sub>0.4</sub> ) <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> + 0.5 mol% CuO (PZCN) thick films under various sintering conditions. <i>Journal of Electroceramics</i> , <b>2015</b> , 34, 109-113	1.5	4
43	Structure and dielectric properties of BaTi <sub>4</sub> O <sub>9</sub> thin films for RF-MIM capacitor applications. <i>Journal of Electroceramics</i> , <b>2006</b> , 17, 387-391	1.5	4
42	Structural Variation of the BaTi <sub>4</sub> O <sub>9</sub> Thin Films Grown by RF Magnetron Sputtering. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 1209-1212	3.8	4
41	Synthesis of [100]-Oriented (Na <sub>1-x</sub> K <sub>x</sub> )NbO <sub>3</sub> Platelets by Using Hydrothermally Produced (K <sub>8x</sub> Na <sub>8x</sub> )Nb <sub>6</sub> O <sub>19</sub> ·H <sub>2</sub> O Precursor. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 796-801	3.8	4
40	CuO-added KNbO <sub>3</sub> -BaZrO <sub>3</sub> lead-free piezoelectric ceramics with low loss and large electric field-induced strain. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 2948-2957	3.8	3
39	Subwavelength Hollow-Nanopillared Glass with Gradient Refractive Index for Ultralow Diffuse Reflectance and Antifogging. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 6234-6242	9.5	3
38	High energy-density 0.72Pb(Zr <sub>0.47</sub> Ti <sub>0.53</sub> )O <sub>3</sub> -0.28Pb[(Zn <sub>0.45</sub> Ni <sub>0.55</sub> ) <sub>1/3</sub> Nb <sub>2/3</sub> ]O <sub>3</sub> thick films fabricated by tape casting for energy-harvesting-device applications. <i>Journal of the Korean Physical Society</i> , <b>2013</b> , 63, 1772-1776	0.6	3
37	Sintering Process and Microwave Dielectric Properties of Bi <sub>8</sub> TiO <sub>14</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2491-2495	3.8	3

36	Phase Relation and Dielectric Properties of Bi <sub>2</sub> O <sub>3</sub> -ZnO-Nb <sub>2</sub> O <sub>5</sub> -Based Ceramics. <i>Ferroelectrics</i> , <b>2002</b> , 272, 273-278	0.6	3
35	Effect of Heating Rate on Bulk Density and Microstructure in Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> Sintering. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 736-742	1.9	3
34	Thermal durability of ytterbium silicate environmental barrier coating prepared by suspension plasma spray. <i>Journal of the Korean Ceramic Society</i> , <b>2021</b> , 58, 192-200	2.2	3
33	Remarkable piezoelectric performance and good thermal stability of-textured 0.96(K <sub>0.5</sub> Na <sub>0.5</sub> )(NbSb) <sub>3</sub> O <sub>3</sub> -0.04SrZrO <sub>3</sub> lead-free piezoelectric ceramics. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 882, 160662	5.7	3
32	Highly IR transparent ZnS ceramics sintered by vacuum hot press using hydrothermally produced ZnS nanopowders. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 2663-2673	3.8	2
31	Nanostructured polycarbonate for robust transparency and anti-fogging by control of self-masking metallic clusters. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 4697-4706	2.8	2
30	Synthesis and dielectric properties of layered-perovskite KCa <sub>2</sub> N <sub>n</sub> -3NbnO <sub>3n+1</sub> ceramics. <i>Ceramics International</i> , <b>2017</b> , 43, 15089-15094	5.1	2
29	Electrical Properties of Amorphous BaTi <sub>4</sub> O <sub>9</sub> Films Grown on Cu/Ti/SiO <sub>2</sub> /Si Substrates Using RF Magnetron Sputtering. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 1248-1252	3.8	2
28	Structural and electrical properties of (1-x)Bi <sub>5</sub> Nb <sub>3</sub> O <sub>15</sub> -xBi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> ceramics and 0.96Bi <sub>5</sub> Nb <sub>3</sub> O <sub>15</sub> -0.04Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> thin films grown by pulsed laser deposition. <i>Electronic Materials Letters</i> , <b>2009</b> , 5, 23-27	2.9	2
27	Crystal structure of (Ba <sub>1-x</sub> Lax) [Mg(1+x)/3Nb(2x)/3]O <sub>3</sub> ceramics. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 621-628	4.3	2
26	Dielectric Properties of (Ba <sub>0.6</sub> Sr <sub>0.4</sub> )(Cu <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> System. <i>Ferroelectrics</i> , <b>2005</b> , 322, 75-82	0.6	2
25	Microstructure and Microwave Dielectric Properties of (1-x)NdGaO <sub>3</sub> -xCaTiO <sub>3</sub> Ceramics. <i>Ferroelectrics</i> , <b>2002</b> , 272, 303-308	0.6	2
24	Piezoelectricity of (K,Na)(Nb,Sb)O <sub>3</sub> BrZrO <sub>3</sub> (Bi,Ag)ZrO <sub>3</sub> piezoceramics and their application in planar-type actuators. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 16741-16750	7.1	2
23	Structural and piezoelectric properties of textured NLKNS-CZ thick films and their application in planar piezoactuator. <i>Journal of the American Ceramic Society</i> , <b>2022</b> , 105, 1185	3.8	2
22	Electric Field Assembled Anisotropic Dielectric Layer for Metal Core Printed Circuit Boards. <i>IEEE Electron Device Letters</i> , <b>2012</b> , 33, 1607-1609	4.4	1
21	Molten salt synthesis of La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3</sub> powders for SOFC cathode electrode. <i>Metals and Materials International</i> , <b>2012</b> , 18, 723-726	2.4	1
20	Ceramic-metal package for high power LED lighting. <i>Frontiers of Optoelectronics</i> , <b>2012</b> , 5, 133-137	2.8	1
19	The changes of morphology and composition in Cu(In <sub>1-x</sub> Gax)Se <sub>2</sub> powder synthesis by solvothermal method. <i>Metals and Materials International</i> , <b>2012</b> , 18, 197-199	2.4	1



18	A new type of ordering in Ba(Zn <sub>1/3</sub> Ta <sub>2/3</sub> )O <sub>3</sub> ceramics. <i>Journal of Materials Science Letters</i> , <b>1997</b> , 16, 785-787		1
17	Water Wetting Observation on a Superhydrophobic Hairy Plant Leaf Using Environmental Scanning Electron Microscopy. <i>Applied Microscopy</i> , <b>2016</b> , 46, 201-205	1.1	1
16	High Resolution Transmission Electron Microscopy Observations on Sintering Processes in KNbO <sub>3</sub> Ceramics. <i>Applied Microscopy</i> , <b>2017</b> , 47, 203-207	1.1	1
15	Structural and Electrical Properties of Mn-Doped $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ Thin Film Grown on $\text{TiN}/\text{SiO}_2/\text{Si}$ Substrate for RF MIM Capacitors. <i>IEEE Transactions on Electron Devices</i> , <b>2009</b> , 56, 1631-1636	2.9	0
14	Effects of the particle size composition of sintering additives on pore characteristics, flexural strength, and gas permeability of liquid-phase-bonded macroporous SiC. <i>Journal of the Korean Ceramic Society</i> , <b>2021</b> , 58, 737-746	2.2	0
13	Effect of LiBiO <sub>2</sub> on low-temperature sintering of PZT-PZNN ceramics. <i>Journal of the Korean Ceramic Society</i> , 1	2.2	0
12	Low-temperature sintering and microwave dielectric properties of $\text{Ca}[(\text{Li}_{1/3}\text{Nb}_{2/3})_{0.8}\text{Ti}_{0.2}]_3\text{B}$ with glass frit added. <i>Journal of the Korean Physical Society</i> , <b>2015</b> , 66, 1140-1143	0.6	
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10	Role of Alumina Buffer Layer on the Dielectric and Piezoelectric Properties of PZT System Thick Films. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 491-495	3.8	
9	Effect of Li <sub>2</sub> O on the defect polarization in CuO-added (K <sub>0.9</sub> Na <sub>0.1</sub> )NbO <sub>3</sub> piezoelectric ceramics. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 5193-5201	3.8	
8	Microstructural Characteristics of (Na <sub>0.5</sub> Ko <sub>0.5</sub> )NbO <sub>3</sub> Ceramics with Additives: Transmission Electron Microscopy Study. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 305-306	0.5	
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6	Piezoelectricity in (K,Na)NbO <sub>3</sub> Based Ceramics. <i>Ceramic Engineering and Science Proceedings</i> , 17-23	0.1	
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1	Effect of heat treatment on the wear behavior of WC-Ni-Cr and WC-Ni-Cr + Cr <sub>3</sub> C <sub>2</sub> coatings fabricated by high-velocity oxy-fuel method. <i>Journal of the Korean Ceramic Society</i> , 1	2.2	

