

# Kyung-Hoon Cho

## List of Publications by Year in descending order

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67  
papers

1,795  
citations

257357

24  
h-index

276775

41  
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67  
all docs

67  
docs citations

67  
times ranked

1288  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of CuO on the Sintering Temperature and Piezoelectric Properties of $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ Lead-Free Piezoelectric Ceramics. Journal of the American Ceramic Society, 2008, 91, 2374-2377.	1.9	135
2	Cellular Auxetic Structures for Mechanical Metamaterials: A Review. Sensors, 2020, 20, 3132.	2.1	123
3	Microstructure and piezoelectric properties of lead-free $(1-x)(\text{Na}_0.5\text{K}_0.5)\text{NbO}_3-x\text{CaTiO}_3$ ceramics. Journal of Applied Physics, 2007, 102, .	1.1	111
4	Microstructure and Piezoelectric Properties of $(1-x)(\text{Na}_0.5\text{K}_0.5)\text{NbO}_3-x\text{LiNbO}_3$ Ceramics. Journal of the American Ceramic Society, 2007, 90, 1812-1816.	1.9	101
5	Self-biased magnetolectric response in three-phase laminates. Journal of Applied Physics, 2010, 108, .	1.1	90
6	Giant energy density in [001]-textured $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{PbZrO}_3$ - $\text{PbTiO}_3$ piezoelectric ceramics. Applied Physics Letters, 2013, 102, .	1.5	88
7	Identification and Effect of Secondary Phase in $\text{MnO}_2$ -Doped $0.8\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3-0.2\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Piezoelectric Ceramics. Journal of the American Ceramic Society, 2011, 94, 3953-3959.		
8	Direct and converse effect in magnetolectric laminate composites. Applied Physics Letters, 2011, 98, .	1.5	72
9	Microstructure and Piezoelectric Properties of $0.95(\text{Na}_0.5\text{K}_0.5)\text{NbO}_3-0.05\text{SrTiO}_3$ Ceramics. Journal of the American Ceramic Society, 2007, 90, 1946-1949.	1.9	66
10	Templated Grain Growth of $(1-x)\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-x\text{PbTiO}_3$ Piezoelectric Ceramics for Magnetic Field Sensors. Journal of the American Ceramic Society, 2011, 94, 1784-1793.	1.9	65
11	Effect of CuO on the sintering temperature and piezoelectric properties of lead-free $0.95(\text{Na}_0.5\text{K}_0.5)\text{NbO}_3-0.05\text{CaTiO}_3$ ceramics. Materials Research Bulletin, 2008, 43, 3580-3586.	2.7	64
12	Effect of $\text{BaCu}(\text{B}_2\text{O}_5)$ on the sintering temperature and microwave dielectric properties of $\text{BaO}-\text{Ln}_2\text{O}_3-\text{TiO}_2$ ( $\text{Ln}=\text{Sm}, \text{Nd}$ ) ceramics. Materials Research Bulletin, 2006, 41, 1868-1874.	2.7	62
13	High magnetic field sensitivity in $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3-\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ single crystal/Terfenol-D/Metglas magnetolectric laminate composites. Journal of Applied Physics, 2010, 107, .	1.1	48
14	Piezoelectric properties and temperature stability of Mn-doped $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{PbZrO}_3$ - $\text{PbTiO}_3$ textured ceramics. Applied Physics Letters, 2012, 100, .	1.5	48
15	Self-biased converse magnetolectric effect. Applied Physics Letters, 2011, 99, .	1.5	38
16	Role of Secondary Phase in High Power Piezoelectric $\text{PMN}-\text{PZT}$ Ceramics. Journal of the American Ceramic Society, 2011, 94, 4138-4141.	1.9	35
17	Effect of CuO on the Sintering and Piezoelectric Properties of $0.95(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3-0.05\text{SrTiO}_3$ Lead-Free Piezoelectric Ceramics. Journal of the American Ceramic Society, 2008, 91, 3955-3960.	1.9	33
18	Self-Bias Response of Lead-Free $(1-x)(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3-x\text{LiNbO}_3-0.052\text{LiSbO}_3$ Nickel Magnetolectric Laminate Composites. Journal of the American Ceramic Society, 2011, 94, 3889-3899.	1.9	31

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19	Structure-performance relationships for cantilever-type piezoelectric energy harvesters. Journal of Applied Physics, 2014, 115, .	1.1	31
20	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. Journal of the American Ceramic Society, 2007, 90, 4066-4069.	1.9	30
21	Effect of intensive and extensive loss factors on the dynamic response of magnetoelectric laminates. Applied Physics Letters, 2010, 97, .	1.5	29
22	Effect of oxygen vacancy and Mn-doping on electrical properties of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> thin film grown by pulsed laser deposition. Acta Materialia, 2009, 57, 2454-2460.	3.8	26
23	Electrical Properties of Amorphous Bi <sub>5</sub> Nb <sub>3</sub> O <sub>15</sub> Thin Film for RF MIM Capacitors. IEEE Electron Device Letters, 2008, 29, 684-687.	2.2	24
24	Enhanced temperature stability in 111 textured tetragonal Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> piezoelectric ceramics. Journal of Applied Physics, 2015, 118, .	1.1	24
25	Structural and Electrical Properties of Bi <sub>5</sub> Nb <sub>3</sub> O <sub>15</sub> Thin Films for MIM Capacitors with Low Processing Temperatures. Journal of the Electrochemical Society, 2008, 155, G148.	1.3	22
26	Investigation on the Electric Properties of Bi <sub>1.5</sub> ZnNb <sub>1.5</sub> O <sub>7</sub> Thin Films Grown on TiN Substrate for MIM Capacitors. IEEE Electron Device Letters, 2008, 29, 334-337.	2.2	18
27	Leakage current mechanism and effect of oxygen vacancy on the leakage current of Bi <sub>5</sub> Nb <sub>3</sub> O <sub>15</sub> films. Journal of the European Ceramic Society, 2010, 30, 513-516.	2.8	18
28	Phase transition and temperature stability of piezoelectric properties in Mn-modified Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbZrO <sub>3</sub> -PbTiO <sub>3</sub> ceramics. Applied Physics Letters, 2012, 100, 152902.	1.5	18
29	Enhanced pyroelectric response from domain-engineered lead-free (K <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> )-Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ferroelectric ceramics. Journal of the European Ceramic Society, 2021, 41, 2524-2532.	2.8	18
30	15-Mode piezoelectric composite and its application in a magnetoelectric laminate structure. Journal of Alloys and Compounds, 2018, 767, 61-67.	2.8	16
31	An easy approach to obtain large piezoelectric constant in high-quality transparent ceramics by normal sintering process in modified potassium sodium niobate ceramics. Journal of the European Ceramic Society, 2020, 40, 2989-2995.	2.8	16
32	Structural and Electrical Properties of Bi <sub>6</sub> Ti <sub>5</sub> TeO <sub>22</sub> Thin Films Grown on Pt/Ti/SiO <sub>2</sub> /Si Substrate. Journal of the Electrochemical Society, 2008, 155, G87.	1.3	15
33	A composition design rule for crystal growth of centimeter scale by normal sintering process in modified potassium sodium niobate ceramics. Journal of the European Ceramic Society, 2018, 38, 1416-1420.	2.8	15
34	Designing ferroelectric/ferromagnetic composite with giant self-biased magnetoelectric effect. Applied Physics Letters, 2019, 115, .	1.5	15
35	Effect of Oxygen Pressure on the Electrical Properties of Bi <sub>5</sub> Nb <sub>3</sub> O <sub>15</sub> Films Grown by RF Magnetron Sputtering. IEEE Electron Device Letters, 2008, 29, 984-987.	2.2	12
36	Synthesis of ferroelectric PZT fibers using sol-gel technique. Materials Letters, 2011, 65, 775-779.	1.3	11

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37	An easy approach to obtain textured microstructure and transparent seed crystal prepared by simple molten salt synthesis in modified potassium sodium Niobate. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1232-1235.	2.8	11
38	BiFeO <sub>3</sub> -Based Relaxor Ferroelectrics for Energy Storage: Progress and Prospects. <i>Materials</i> , 2021, 14, 7188.	1.3	11
39	Low temperature sintering of BaO-Sm <sub>2</sub> O <sub>3</sub> -4TiO <sub>2</sub> ceramics. <i>Journal of the European Ceramic Society</i> , 2007, 27, 1053-1058.	2.8	10
40	Zigzag-shaped piezoelectric based high performance magnetoelectric laminate composite. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	10
41	Microstructure and Electrical Properties of Amorphous $\text{Bi}_5\text{Nb}_3\text{O}_{15}$ Films Grown on Cu/Ti/SiO <sub>2</sub> /Si Substrates Using RF Magnetron Sputtering. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 1462-1467.	1.6	9
42	Effects of oxygen pressure and Mn-doping on the electrical and dielectric properties of Bi <sub>5</sub> Nb <sub>3</sub> O <sub>15</sub> thin film grown by pulsed laser deposition. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 175402.	1.3	8
43	Electrical Properties of $\text{Bi}_5\text{Nb}_3\text{O}_{15}$ 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> , 2009, 30, 614-616.	2.2	8
44	Oxygen Pressure and Mn-Doping Effects on the Structure and Leakage Current of Bi <sub>6</sub> Ti <sub>5</sub> TeO <sub>22</sub> Thin Film. <i>Journal of the Electrochemical Society</i> , 2008, 155, G199.	1.3	7
45	Microstructure and luminescent properties of Eu <sub>2</sub> W <sub>2</sub> O <sub>9</sub> phosphors. <i>Journal of Electroceramics</i> , 2009, 22, 98-104.	0.8	7
46	Effects of Ambient Gas Pressure on the Resistance Switching Properties of the NiO Thin Films Grown by Radio Frequency Magnetron Sputtering. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 121103.	0.8	7
47	Structural and piezoelectric properties of MnO <sub>2</sub> -added 0.95(Na <sub>0.5</sub> K <sub>0.5</sub> )NbO <sub>3</sub> -0.05SrTiO <sub>3</sub> ceramics. <i>Sensors and Actuators A: Physical</i> , 2013, 200, 47-50.	2.0	7
48	Magnetoelectric Laminate Composite: Effect of Piezoelectric Layer on Magnetoelectric Properties. <i>Ferroelectrics</i> , 2014, 473, 110-128.	0.3	7
49	Seed crystal of modified potassium sodium niobate prepared by simple molten salt synthesis. <i>Journal of the American Ceramic Society</i> , 2018, 101, 515-519.	1.9	7
50	Optical properties of bismuth niobate thin films studied by spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2010, 518, 6526-6530.	0.8	6
51	Effect of Structural Control on the Magnetoelectric Characteristics of Piezoelectric-Magnetostrictive Laminate Composite in Resonance and Off-Resonance Modes. <i>Electronic Materials Letters</i> , 2019, 15, 555-561.	1.0	5
52	Effect of Oxygen Vacancies on the Electrical Properties of Bi <sub>6</sub> Ti <sub>5</sub> TeO <sub>22</sub> Thin Film. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, G51.	2.2	4
53	A Flexible Amorphous Bi <sub>5</sub> Nb <sub>3</sub> O <sub>15</sub> Film for the Gate Insulator of the Low-Voltage Operating Pentacene Thin-Film Transistor Fabricated at Room Temperature. <i>Langmuir</i> , 2009, 25, 12349-12354.	1.6	4
54	Giant Self-biased Magnetoelectric Effect in Pre-biased Magnetostrictive-Piezoelectric Laminate Composites. <i>Electronic Materials Letters</i> , 2020, 16, 123-130.	1.0	4

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55	Effect of Dimension Control of Piezoelectric Layer on the Performance of Magnetolectric Laminate Composite. Korean Journal of Materials Research, 2018, 28, 611-614.	0.1	4
56	Cation distribution and magnetostrictive strain in $\text{CuFe}_{2-x}\text{GaxO}_4$ ceramics. Ceramics International, 2021, 47, 11848-11855.	2.3	3
57	Crystallization and Improvement of Electrical Properties of $\text{Bi}_5\text{Nb}_3\text{O}_{15}$ Thin Films Grown at Low Temperature. Japanese Journal of Applied Physics, 2009, 48, 111401.	0.8	2
58	Structural and Electrical Properties of $(1-x)\text{Bi}_5\text{Nb}_3\text{O}_{15}-x\text{Bi}_4\text{Ti}_3\text{O}_{12}$ Ceramics and $0.96\text{Bi}_5\text{Nb}_3\text{O}_{15}-0.04\text{Bi}_4\text{Ti}_3\text{O}_{12}$ Thin Films Grown by Pulsed Laser Deposition. Electronic Materials Letters, 2009, 5, 23-27.	1.0	2
59	Investigation on the valence state of Te ions in the $\text{Bi}_6\text{Ti}_5\text{TeO}_{22}$ thin film using X-ray photoelectron spectroscopy. Journal of the European Ceramic Society, 2010, 30, 517-520.	2.8	2
60	Low-Voltage-Driven Pentacene Thin-Film Transistors with Cross-Linked Poly(4-vinylphenol)/High- $\kappa$ $\text{Bi}_5\text{Nb}_3\text{O}_{15}$ Hybrid Dielectric for Phototransistor. Journal of Nanoscience and Nanotechnology, 2012, 12, 3355-3359.	0.9	2
61	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. IEEE Transactions on Electron Devices, 2009, 56, 1631-1636.	1.6	1
62	Effect of $\text{MnO}_2$ and $\text{CuO}$ Addition on Microstructure and Piezoelectric Properties of $0.96(\text{K}_{0.5}\text{Na}_{0.5})_{0.95}\text{Li}_{0.05}\text{Nb}_{0.93}\text{Sb}_{0.07}\text{O}_3$ Ceramics. Korean Journal of Materials Research, 2019, 29, 150-154.	0.1	0
63	Fast Abnormal Grain Growth Behavior and Electric Properties of Lead-Free Piezoelectric $(\text{K},\text{Na})\text{NbO}_3\text{-}\delta\text{Ba}(\text{Cu},\text{Nb})\text{O}_3$ Grains through Transient Liquid Phase. Korean Journal of Materials Research, 2019, 29, 205-210.	0.1	1
64	Low temperature sintering and piezoelectric properties of lead-free $(1-x)(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3-x\text{CaTiO}_3$ ceramics. , 2008, , .		0
65	High Magnetic Field Sensitivity in Ferromagnetic-Ferroelectric Composite with High Mechanical Quality Factor. Sensors, 2020, 20, 6635.	2.1	0
66	Giant Grain Growth in $(\text{K},\text{Na})\text{NbO}_3$ Ceramics. Ceramist, 2021, 24, 286-294.	0.0	0
67	Grain Growth Behavior and Electrical Properties of $0.96(\text{K}_{0.46}\text{Na}_{0.54})\text{Nb}_{0.95}\text{Sb}_{0.05}\text{O}_3\text{-}0.04\text{Bi}_0.5(\text{Na}_{0.82}\text{K}_{0.18})_0.5\text{ZrO}_3$ Ceramics. Materials, 2022, 15, 2357.	1.3	0