

# Tomoaki Karki

## List of Publications by Year in descending order

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29  
papers

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docs citations

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times ranked

284  
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#	ARTICLE	IF	CITATIONS
1	Morphotropic Phase Boundary Slope of (K,Na,Li)NbO <sub>3</sub> -BaZrO <sub>3</sub> Binary System Adjusted Using Third Component (Bi,Na)TiO <sub>3</sub> Additive. Japanese Journal of Applied Physics, 2013, 52, 09KD11.	1.5	60
2	Large Piezoelectric Strain with Superior Thermal Stability and Excellent Fatigue Resistance of Lead-Free Potassium Sodium Niobate-Based Grain Orientation-Controlled Ceramics. ACS Applied Materials & Interfaces, 2018, 10, 10220-10226.	8.0	51
3	Microstructure and Piezoelectric Properties of (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> -BaTiO <sub>3</sub> Lead-Free Piezoelectric Ceramics Modified by B <sub>2</sub> O <sub>3</sub> -CuO. Journal of the American Ceramic Society, 2010, 93, 3823-3827.	3.8	26
4	Lead-Free KNN-Based Textured Ceramics for High-Frequency Ultrasonic Transducer Application. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1979-1987.	3.0	22
5	Two-Step Synthesis of Platelike Potassium Sodium Niobate Template Particles by Hydrothermal Method. Journal of the American Ceramic Society, 2013, 96, 2515-2518.	3.8	21
6	Preparation of plate-like potassium sodium niobate particles by hydrothermal method. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1052-1055.	1.8	17
7	The high piezoelectric properties and high temperature stability in Mn doped Pb(Mg <sub>0.5</sub> W <sub>0.5</sub> )O <sub>3</sub> -Pb(Zr,Ti)O <sub>3</sub> ceramics. Ceramics International, 2019, 45, 6523-6527.	4.8	16
8	A Review on Alternating Current Poling for Perovskite Relaxor-PbTiO <sub>3</sub> Single Crystals. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 3037-3047.	3.0	16
9	Growth of Substituted Langasite-Type Ca <sub>3</sub> NbGa <sub>3</sub> Si <sub>2</sub> O <sub>14</sub> Single Crystals, and Their Dielectric, Elastic and Piezoelectric Properties. Ferroelectrics, 2003, 286, 43-48.	0.6	15
10	High piezoelectricity after field cooling AC poling in temperature stable ternary single crystals manufactured by continuous-feeding Bridgman method. Journal of Advanced Ceramics, 2022, 11, 57-65.	17.4	14
11	Enhanced energy storage properties of Sr(Ti <sub>0.5</sub> Zr <sub>0.5</sub> ) <sub>2</sub> Ti <sub>2</sub> Q <sub>11</sub> 0.784314 rgBT / Overlaid on 11492-11500.	4.5	10
12	Growth of Langasite Family Compounds for Bulk and Saw Applications. Ferroelectrics, 2002, 273, 89-94.	0.6	8
13	Preparation of Plate-like Sodium Niobate Particles by Hydrothermal Method. Journal of the American Ceramic Society, 2015, 98, 654-658.	3.8	8
14	Piezoelectric properties of potassium lithium niobate single crystals. Ferroelectrics, 2001, 262, 257-262.	0.6	6
15	Preparation of Morphology-Controlled Plate-like Sodium Niobate Particles by Hydrothermal Synthesis. Journal of the American Ceramic Society, 2015, 98, 1668-1672.	3.8	6
16	Effect of template amounts on the orientation degree and electrical properties of lead-free piezoelectric textured KNN-based ceramics. Journal of Applied Physics, 2022, 131, .	2.5	6
17	Growth and piezoelectric properties of large sized Ca <sub>3</sub> TaGa <sub>3</sub> Si <sub>2</sub> O <sub>14</sub> crystals. CrystEngComm, 2021, 23, 5362-5366.	2.6	5
18	Single-Beam Acoustic Tweezer Prepared by Lead-Free KNN-Based Textured Ceramics. Micromachines, 2022, 13, 175.	2.9	4

#	ARTICLE	IF	CITATIONS
19	Zero Temperature Compensated Microwave Dielectric Properties of $\text{Ca}_{0.8}\text{Sr}_{0.2}\text{TiO}_3 \cdot \text{Li}_{0.5}\text{Ln}_{0.5}\text{TiO}_3$ System. <i>Ferroelectrics</i> , 2009, 378, 1-7.		3
20	Effect of $\text{MnO}_2$ addition on temperature-dependent properties of tetragonal $(\text{Bi,Na})\text{TiO}_3 \cdot \text{BaTiO}_3$ thick films prepared on MgO ceramic substrates. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SFFB04.	1.5	3
21	The preparation of $\text{MnO}_2$ -doped $\text{NaNbO}_3$ -based lead-free ceramics with enhanced energy storage performance and attractive electrocaloric effect. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SB1028.	1.5	3
22	Effect of substrate material to the properties of screen-printed lead free $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ -based thick films. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 025502.	1.5	2
23	Effects of $\text{MnO}_2$ addition on the electrical properties of lead-free textured potassium sodium niobate-based ceramics. <i>Ferroelectrics</i> , 2019, 553, 51-59.	0.6	1
24	Irreversible domain evolutions and formation mechanism of relaxor ferroelectric 0.91PZN-0.09PT single crystals. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	1
25	Growth of Potassium Sodium Lithium Niobate-Tantalate Single Crystals for Piezoelectric Applications. <i>Applications of Ferroelectrics</i> , IEEE International Symposium on, 2007, , .	0.0	0
26	Preparation of $\text{K}_{0.3}\text{Li}_{0.2}\text{Nb}_{0.5}\text{O}_{15}$ thin films. , 2009, , .		0
27	Scaling effects of ferroelectric nanoparticles studied by synchrotron radiation X-ray diffraction. , 2009, , .		0
28	Piezoelectric properties of modified $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3 \cdot \text{BaTiO}_3$ ceramics with the mixture sintering aids of $0.6\text{B}_2\text{O}_3 \cdot 0.4\text{CuO}$ . , 2010, , .		0
29	Research on shear stress of electrorheological fluid containing piezoelectric powders. <i>Journal of Intelligent Material Systems and Structures</i> , 0, , 1045389X2110482.	2.5	0