

Xiangda Meng

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High Open-Circuit Voltage of a Pyroelectric Energy Harvester Based on KNN Single Crystals. <i>Crystal Growth and Design</i> , 2022, 22, 4610-4617.	3.0	2
2	Effects of Mn-doping on anti-fatigue and anti-leakage current characteristics in KNN single crystals. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	6
3	Manganese-doping enhanced local heterogeneity and piezoelectric properties in potassium tantalate niobate single crystals. <i>IUCrj</i> , 2021, 8, 319-326.	2.2	5
4	Enhanced fatigue resistance and lattice dynamics induced by the strong local strain in Fe-doped $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ single crystals. <i>Journal of Materials Chemistry C</i> , 2021, 10, 142-149.	5.5	2
5	Controllable Gradient in the Composition of a Ferroelectric Single Crystal. <i>Crystal Growth and Design</i> , 2020, 20, 449-453.	3.0	5
6	Bi-component symbiotic crystal. <i>Applied Physics Letters</i> , 2020, 117, 092901.	3.3	1
7	Improving strain in single crystal by composition-gradients design. <i>Acta Materialia</i> , 2020, 200, 24-34.	7.9	11
8	Laser Deflector Based on Electric-Field-Induced Strain of Manganese-Doped Potassium Tantalate-Niobate Single Crystals. <i>Crystal Growth and Design</i> , 2020, 20, 8053-8058.	3.0	0
9	Ultra-high piezoresponse in tantalum doped potassium sodium niobate single crystal. <i>Applied Physics Letters</i> , 2020, 116, 112902.	3.3	4
10	Ultra-large electric field-induced strain in potassium sodium niobate crystals. <i>Science Advances</i> , 2020, 6, eaay5979.	10.3	53
11	The Effect of Composition Gradient on Microdomain Structure and the Macro-Ferroelectric/Piezoelectric Properties. <i>Crystal Growth and Design</i> , 2019, 19, 5362-5368.	3.0	15
12	Improvement of anti-fatigued strain in KTN-based single crystals with regular periodic hierarchical domain structure. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	10
13	Dynamic Evolution of Polar Regions in $\text{KTa}_{0.56}\text{Nb}_{0.44}\text{O}_3$ near the Para-Ferroelectric Phase Transition. <i>Crystal Growth and Design</i> , 2019, 19, 1041-1047.	3.0	19
14	Strain-Gradient-Controlled Disorder Dynamics in Chemically Substituted Ferroelectrics. <i>Physical Review Applied</i> , 2019, 11, .	3.8	28
15	Controllable anisotropic characteristics in solid solution ferroelectrics. <i>CrystEngComm</i> , 2019, 21, 7002-7010.	2.6	7
16	Large Room Temperature Electrocaloric Effect in $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ Single Crystal. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800515.	2.4	19
17	High-quality $\text{K}_{0.47}\text{Na}_{0.53}\text{NbO}_3$ single crystal toward high performance transducer. <i>RSC Advances</i> , 2017, 7, 7003-7007.	3.6	16
18	Strong electromechanical coupling in paraelectric $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ crystals. <i>Journal of the American Ceramic Society</i> , 2017, 100, 5220-5225.	3.8	4

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19	Field-driven electro-optic dynamics of polar nanoregions in nanodisordered $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ crystal. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	35
20	Temperature field driven polar nanoregions in $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	20
21	Origin of giant piezoelectric effect in lead-free $\text{K}_{1-x}\text{Na}_x\text{Ta}_x\text{Nb}_{1-x}\text{O}_3$ single crystals. <i>Scientific Reports</i> , 2016, 6, 25637.	3.3	20
22	Effects of Growth Temperature on Crystal Morphology and Size Uniformity in $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ and $\text{K}_{1-x}\text{Na}_x\text{NbO}_3$ Single Crystals. <i>Crystal Growth and Design</i> , 2016, 16, 325-330.	3.0	24
23	Dynamic response of polar nanoregions under an electric field in a paraelectric $\text{KTa}_{0.61}\text{Nb}_{0.39}\text{O}_3$ single crystal near the para-ferroelectric phase boundary. <i>Scientific Reports</i> , 2015, 5, 13751.	3.3	30
24	Top-Seeded Solution Growth and Properties of $\text{K}_{1-x}\text{Na}_x\text{NbO}_3$ Crystals. <i>Crystal Growth and Design</i> , 2015, 15, 1180-1185.	3.0	58
25	Variable gradient refractive index engineering: design, growth and electro-deflective application of $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10968-10973.	5.5	30
26	Dielectric, piezoelectric, and elastic properties of $\text{K}_{0.8}\text{Na}_{0.2}\text{NbO}_3$ single crystals. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9609-9614.	5.5	34