

Yi-Xuan Liu

List of Publications by Year in descending order

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36
papers

3,031
citations

346980

22
h-index

406436

35
g-index

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all docs

36
docs citations

36
times ranked

1944
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinctive Nb ^{5d} O hybridization at domain walls in orthorhombic KNbO ₃ ferroelectric perovskite. Applied Physics Letters, 2022, 120, 052902.	1.5	2
2	Concurrently enhanced mechanical properties and capacitive performance in all-organic dielectric polymer blend via phase separation. Journal of Applied Physics, 2022, 131, .	1.1	3
3	Domain Engineering in Bulk Ferroelectric Ceramics via Mesoscopic Chemical Inhomogeneity. Advanced Science, 2022, 9, e2200998.	5.6	20
4	Electrical property and phase transition analysis of KNN-based lead-free ferroelectric films. Materials Research Express, 2022, 9, 056403.	0.8	1
5	Isolated ²⁺ Oxygen ²⁻ Vacancy Hardening in Lead ²⁺ -Free Piezoelectrics. Advanced Materials, 2022, 34, e2202558.	11.1	40
6	(K, Na)NbO ₃ -based lead-free piezoceramics: one more step to boost applications. National Science Review, 2022, 9, .	4.6	29
7	Defect-mediated domain-wall motion and enhanced electric-field-induced strain in hot-pressed K _{0.5} Na _{0.5} NbO ₃ lead-free piezoelectric ceramics. Journal of Applied Physics, 2021, 129, .	1.1	30
8	Hardening effect in lead-free piezoelectric ceramics. Journal of Materials Research, 2021, 36, 996-1014.	1.2	25
9	Electrical properties and temperature stability of CeO ₂ and MnCO ₃ co-doped Pb _{0.95} Sr _{0.05} (Mn _{1/3} Nb _{2/3}) _{0.05} (Zr _{0.48} Ti _{0.52}) _{0.95} O ₃ piezoceramics with high mechanical quality factor. Journal of Materials Science: Materials in Electronics, 2021, 32, 2895-2905.	1.1	8
10	Thermally stable piezoelectric performance in low-temperature sintered Pb _{0.95} Ba _{0.01} Sr _{0.04} (Zr _{0.53} Ti _{0.47})O ₃ ceramics with a low loss factor. Advances in Applied Ceramics, 2021, 120, 209-214.		1
11	Influence of growth oxygen pressure on the electrical properties and phase transformation of the epitaxial (K,Na)NbO ₃ -based lead-free ferroelectric films. Journal of Applied Physics, 2021, 129, .	1.1	3
12	The origin of chemical inhomogeneity in lead-free potassium sodium niobate ceramic: Competitive chemical reaction during solid-state synthesis. Acta Materialia, 2021, 211, 116833.	3.8	19
13	Enhanced electric-field-induced strains in (K,Na)NbO ₃ piezoelectrics from heterogeneous structures. Materials Today, 2021, 46, 44-53.	8.3	36
14	All-Inorganic Flexible (K, Na)NbO ₃ -Based Lead-Free Piezoelectric Thin Films Spin-Coated on Metallic Foils. ACS Applied Materials & Interfaces, 2021, 13, 39633-39640.	4.0	10
15	Practical high-performance lead-free piezoelectrics: structural flexibility beyond utilizing multiphase coexistence. National Science Review, 2020, 7, 355-365.	4.6	76
16	Robust Ferroelectric Properties in (K,Na)NbO ₃ -Based Lead-Free Films via a Self-Assembled Nanocomposite Approach. ACS Applied Materials & Interfaces, 2020, 12, 4616-4624.	4.0	14
17	Lead-free antiferroelectric niobates AgNbO ₃ and NaNbO ₃ for energy storage applications. Journal of Materials Chemistry A, 2020, 8, 23724-23737.	5.2	150
18	Fabrication of the transparent ferroelectric heterostructures based on KNN-based lead-free films. Journal Physics D: Applied Physics, 2020, 53, 415301.	1.3	7

#	ARTICLE	IF	CITATIONS
19	Ultra-large electric field-induced strain in potassium sodium niobate crystals. Science Advances, 2020, 6, eaay5979. Origin of high electromechanical properties in BaZrO_3 -based lead-free piezoelectrics modified with Li	4.7	53
20	-based lead-free piezoelectrics modified with BaZrO_3 Li	0.9	13
21	Tuning electrical properties and phase transitions through strain engineering in lead-free ferroelectric $\text{K}_0.5\text{Na}_0.5\text{NbO}_3\text{-LiTaO}_3\text{-CaZrO}_3$ thin films. Applied Physics Letters, 2019, 115, .	1.5	15
22	The impact of chemical heterogeneity in lead-free (K, Na)NbO ₃ piezoelectric perovskite: Ferroelectric phase coexistence. Acta Materialia, 2019, 166, 551-559.	3.8	37
23	Technology transfer of lead-free (K, Na)NbO ₃ -based piezoelectric ceramics. Materials Today, 2019, 29, 37-48.	8.3	109
24	Influence of trace zirconia addition on the properties of (K,Na)NbO ₃ solid solutions. Journal of Materials Chemistry C, 2019, 7, 6914-6923.	2.7	22
25	Requirements for the transfer of lead-free piezoceramics into application. Journal of Materiomics, 2018, 4, 13-26.	2.8	187
26	Simultaneous enhancement of piezoelectricity and temperature stability in (K,Na)NbO ₃ -based lead-free piezoceramics by incorporating perovskite zirconates. Journal of Materials Chemistry C, 2018, 6, 10618-10627.	2.7	50
27	Shifting the phase boundary: Potassium sodium niobate derivatives. MRS Bulletin, 2018, 43, 607-611.	1.7	69
28	High and Temperature-Insensitive Piezoelectric Strain in Alkali Niobate Lead-free Perovskite. Journal of the American Chemical Society, 2017, 139, 3889-3895.	6.6	301
29	Diffused Phase Transition Boosts Thermal Stability of High-Performance Lead-Free Piezoelectrics. Advanced Functional Materials, 2016, 26, 1217-1224.	7.8	272
30	Sintering of Lead-Free Piezoelectric Sodium Potassium Niobate Ceramics. Materials, 2015, 8, 8117-8146.	1.3	206
31	Intergranular Stress Induced Phase Transition in CaZrO ₃ Modified KNN-Based Lead-Free Piezoelectrics. Journal of the American Ceramic Society, 2015, 98, 1372-1376.	1.9	36
32	Determination of crystallographic orientation of lead-free piezoelectric (K,Na)NbO ₃ epitaxial thin films grown on SrTiO ₃ (100) surfaces. Applied Physics Letters, 2014, 104, 102902.	1.5	29
33	Temperature-Insensitive (K,Na)NbO ₃ -Based Lead-Free Piezoactuator Ceramics. Advanced Functional Materials, 2013, 23, 4079-4086.	7.8	494
34	Composition Inhomogeneity due to Alkaline Volatilization in Li -Modified KNaNbO_3 Lead-Free Piezoceramics. Journal of the American Ceramic Society, 2013, 96, 2693-2695.	1.9	56
35	Domain Engineering of Lead-Free Li -Modified (K,Na)NbO ₃ Polycrystals with Highly Enhanced Piezoelectricity. Advanced Functional Materials, 2010, 20, 1924-1929.	7.8	384
36	Analysis of crystallographic evolution in (Na,K)NbO ₃ -based lead-free piezoceramics by x-ray diffraction. Applied Physics Letters, 2007, 91, .	1.5	224