

Limei Zheng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8940980/publications.pdf>

Version: 2024-02-01

52
papers

1,108
citations

394421

19
h-index

414414

32
g-index

52
all docs

52
docs citations

52
times ranked

996
citing authors

#	ARTICLE	IF	CITATIONS
1	Homogenous Sn-doped K(Ta,Nb)O ₃ single crystals and its high piezoelectric response. Journal of Materiomics, 2022, 8, 702-709.	5.7	2
2	Property enhancement in relaxor-PbTiO ₃ single crystals by alternating current poling: Evaluation of intrinsic and extrinsic contributions. Ceramics International, 2022, 48, 11764-11771.	4.8	6
3	High-Energy Storage Properties over a Broad Temperature Range in La-Modified BNT-Based Lead-Free Ceramics. ACS Applied Materials & Interfaces, 2022, 14, 19683-19696.	8.0	57
4	Simultaneously achieving giant piezoelectricity and record coercive field enhancement in relaxor-based ferroelectric crystals. Nature Communications, 2022, 13, 2444.	12.8	46
5	Growth and characterization of large size lead-free ferroelectric K(Ta,Nb)O ₃ single crystal. Journal of the American Ceramic Society, 2021, 104, 5182-5191.	3.8	5
6	A large and anisotropic enhancement of the mechanical quality factor in ternary relaxor-PbTiO ₃ single crystals. Applied Physics Letters, 2021, 118, .	3.3	7
7	Ferroelectric domain structure and atomic-scale phase distribution in a Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystal. Ceramics International, 2021, , .	4.8	2
8	Inverse Design of Ferroelectric Order in Perovskite Crystal for Self-Powered Ultraviolet Photodetection. Advanced Materials, 2021, , 2105108.	21.0	7
9	Reversible and irreversible domain wall dynamics in [011] _C oriented relaxor ferroelectric single crystals. Journal of the American Ceramic Society, 2020, 103, 3257-3264.	3.8	4
10	Intrinsic piezoelectricity in (K,Na)NbO ₃ -based lead-free single crystal: Piezoelectric anisotropy and its evolution with temperature. Applied Physics Letters, 2020, 117, .	3.3	4
11	Accurate determination of temperature dependent full matrix parameters of piezoelectric materials using only one sample. Ceramics International, 2020, 46, 18763-18767.	4.8	0
12	Exploring lattice symmetry evolution with discontinuous phase transition by Raman scattering criteria: The single-crystalline $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ model system. Physical Review B, 2019, 100, .		
13	Evaluation of reversible and irreversible domain wall motions in relaxor ferroelectrics: Influence of acceptor ions. Applied Physics Letters, 2019, 114, .	3.3	10
14	Temperature-dependent phase transition in [001]-oriented 0.72Pb(MgNb)O-0.28PbTiO single crystals. Ceramics International, 2019, 45, 13999-14005.	4.8	7
15	Atomic Simulations of Grain Structures and Deformation Behaviors in Nanocrystalline CoCrFeNiMn High-Entropy Alloy. Materials, 2019, 12, 1010.	2.9	24
16	Landau expansion parameters and the O-T phase transition of a $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ model system. Physical Review B, 2019, 100, .		

#	ARTICLE	IF	CITATIONS
19	Temperature dependent piezoelectric anisotropy in tetragonal $0.63\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{-}0.37\text{PbTiO}_3$ single crystal. Applied Physics Letters, 2018, 113, 102903.	3.3	5
20	Origin of Improvement in Mechanical Quality Factor in Acceptor-Doped Relaxor-Based Ferroelectric Single Crystals. Physical Review Applied, 2018, 9, .	3.8	32
21	Mn doped ternary relaxor single crystal with high shear piezoelectricity and improved stability. Ceramics International, 2018, 44, 18672-18677.	4.8	3
22	Temperature- and E -field-dependent domain configuration and electrical properties in $(\text{K}, \text{Na})\text{TjETQq}000\text{rgBT}$ / Overlock 1 3973-3981.	3.8	3
23	Multi-Nonvolatile State Resistive Switching Arising from Ferroelectricity and Oxygen Vacancy Migration. Advanced Materials, 2017, 29, 1606165.	21.0	84
24	Tetragonal $(\text{K}, \text{Na})\text{NbO}_3$ based lead-free single crystal: Growth, full tensor properties, and their orientation dependence. Applied Physics Letters, 2017, 111, .	3.3	16
25	Temperature dependence of intrinsic and extrinsic dielectric contributions in $0.27\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ and $0.46\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ single crystals. Physica Status Solidi (B): Basic Research, 2017, 254, 1700029. Phase coexistence and Landau expansion parameters for a $\langle \text{mml:math} \rangle$	4.5	18

26

#	ARTICLE	IF	CITATIONS
37	Theoretical study on phase coexistence in ferroelectric solid solutions near the tricritical point. Journal of Applied Physics, 2015, 117, 134101.	2.5	14
38	Optical transmittance and Raman scattering studies of (K, Na)(Nb, Ta)O ₃ single crystal. Optical Materials, 2015, 45, 104-108.	3.6	13
39	Growth and characterization of lead-free ferroelectric (K,Na,Li)(Nb,Ta,Sb)O ₃ single crystal. Journal of Crystal Growth, 2015, 409, 39-43.	1.5	14
40	Complete set of material constants of single domain (K, Na)(Nb, Ta)O ₃ single crystal and their orientation dependence. Applied Physics Letters, 2014, 105, 212902.	3.3	42
41	Determination of full set material constants of [011] _c poled 0.72Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.28PbTiO ₃ single crystal from one sample. Applied Physics Letters, 2014, 105, 012901.	3.3	9
42	Nonstoichiometric (K, Na)NbO ₃ ceramics: Densification and electrical properties. Journal of Electroceramics, 2014, 32, 192-198.	2.0	8
43	Growth and properties of Li, Ta modified (K,Na)NbO ₃ lead-free piezoelectric single crystals. Physica Status Solidi - Rapid Research Letters, 2014, 8, 86-90.	2.4	35
44	A high quality lead-free (Li, Ta) modified (K, Na)NbO ₃ single crystal and its complete set of elastic, dielectric and piezoelectric coefficients with macroscopic 4mm symmetry. CrystEngComm, 2014, 16, 9828-9833.	2.6	48
45	Temperature dependence of dielectric and electromechanical properties of (K,Na)(Nb,Ta)O ₃ single crystal and corresponding domain structure evolution. Journal of Applied Physics, 2014, 116, 044105.	2.5	28
46	Characterization of full set material constants of piezoelectric materials based on ultrasonic method and inverse impedance spectroscopy using only one sample. Journal of Applied Physics, 2013, 114, 104505.	2.5	34
47	Large size lead-free (Na,K)(Nb,Ta)O ₃ piezoelectric single crystal: growth and full tensor properties. CrystEngComm, 2013, 15, 7718.	2.6	94
48	Complete set of material constants of 0.95(Na _{0.5} Bi _{0.5})TiO ₃ -0.05BaTiO ₃ lead-free piezoelectric single crystal and the delineation of extrinsic contributions. Applied Physics Letters, 2013, 103, .	3.3	66
49	Orientation dependence of piezoelectric properties and mechanical quality factors of 0.27Pb(In _{1/2} Nb _{1/2})O ₃ -0.46Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.27PbTiO ₃ :Mn single crystals. Journal of Applied Physics, 2013, 114, .	2.5	68
50	Piezoelectric properties and thermal stability of (Na _{0.53} K _{0.47})AgNb ₁ Sb ₁ O ₃ ceramics. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 915-918.		
51	MgTiO ₃ Modified (Na _{0.53} K _{0.41} Li _{0.06})Nb _{0.91} Sb _{0.09} O ₃ Piezoelectric Ceramics with Improved Thermal Stability. Ferroelectrics, 2010, 404, 134-140.		
52	Lead-bismuth-free piezoceramics (Na _{0.5} K _{0.44} Li _{0.06})Nb _{0.95} Sb _{0.05} O ₃ -Na _{5.6} Cu _{1.2} Sb ₁₀ O ₂₉ . Science Bulletin, 2007, 52, 566-569.	1.7	0