

Da-Bin Lin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3300460/publications.pdf>

Version: 2024-02-01

43
papers

2,013
citations

361413

20
h-index

265206

42
g-index

43
all docs

43
docs citations

43
times ranked

1921
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrahigh piezoelectricity in ferroelectric ceramics by design. <i>Nature Materials</i> , 2018, 17, 349-354.	27.5	874
2	Piezoelectric activity in Perovskite ferroelectric crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 18-32.	3.0	94
3	Characterization and piezoelectric thermal stability of PIN $\hat{=}$ PMN $\hat{=}$ PT ternary ceramics near the morphotropic phase boundary. <i>Journal of Alloys and Compounds</i> , 2010, 489, 115-118.	5.5	88
4	Electromechanical properties of Pb(In _{1/2} Nb _{1/2})O ₃ $\hat{=}$ Pb(Mg _{1/3} Nb _{2/3})O ₃ $\hat{=}$ PbTiO ₃ single crystals. <i>Journal of Applied Physics</i> , 2011, 109, 14108.	2.5	87
5	Dielectric/piezoelectric properties and temperature dependence of domain structure evolution in lead free single crystal. <i>Solid State Communications</i> , 2009, 149, 1646-1649.	1.9	77
6	Influence of MnO ₂ Doping on the Dielectric and Piezoelectric Properties and the Domain Structure in (K _{0.5} Na _{0.5})NbO ₃ Single Crystals. <i>Journal of the American Ceramic Society</i> , 2010, 93, 941-944.	3.8	71
7	Atomic-scale origin of ultrahigh piezoelectricity in samarium-doped PMN-PT ceramics. <i>Physical Review B</i> , 2020, 101, .	3.2	69
8	Domain size engineering in tetragonal Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ crystals. <i>Journal of Applied Physics</i> , 2011, 110, 84110-841106.	2.5	65
9	Colossal dielectric permittivity in hydrogen-reduced rutile TiO ₂ crystals. <i>Journal of Alloys and Compounds</i> , 2017, 692, 375-380.	5.5	59
10	Influence of domain size on the scaling effects in Pb(Mg _{1/3} Nb _{2/3})O ₃ $\hat{=}$ PbTiO ₃ ferroelectric crystals. <i>Scripta Materialia</i> , 2011, 64, 1149-1151.	5.2	40
11	Ultrahigh Piezoelectric Performance through Synergistic Compositional and Microstructural Engineering. <i>Advanced Science</i> , 2022, 9, e2105715.	11.2	38
12	Investigation of morphotropic phase boundaries in PIN $\hat{=}$ PSN $\hat{=}$ PT relaxor ferroelectric ternary systems with high T _{r-t} and T _c phase transition temperatures. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2813-2823.	5.7	35
13	Electric-field and temperature induced phase transitions in Pb(Mg _{1/3} Nb _{2/3})O ₃ $\hat{=}$ 0.3PbTiO ₃ single crystals. <i>Journal of Applied Physics</i> , 2010, 108, 034112.	2.5	33
14	Thermal stability and electric $\hat{=}$ field $\hat{=}$ induced strain behaviors for PIN $\hat{=}$ PSN $\hat{=}$ PT piezoelectric ceramics. <i>Journal of the American Ceramic Society</i> , 2018, 101, 316-325.	3.8	29
15	Domain size engineering in 0.5%MnO ₂ -(K _{0.5} Na _{0.5})NbO ₃ lead free piezoelectric crystals. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	28
16	Effects of particle size of dielectric fillers on the output performance of piezoelectric and triboelectric nanogenerators. <i>Journal of Advanced Ceramics</i> , 2021, 10, 991-1000.	17.4	27
17	Dielectric and conductivity behavior of Mn-doped K _{0.5} Na _{0.5} NbO ₃ single crystal. <i>Solid State Communications</i> , 2017, 264, 1-5.	1.9	26
18	Electrical properties of zirconium-modified BiScO ₃ -PbTiO ₃ piezoelectric ceramics at re-designed phase boundary. <i>Materials Letters</i> , 2018, 215, 46-49.	2.6	26

#	ARTICLE	IF	CITATIONS
19	Enhanced dielectric, ferroelectric, and optical properties in rare earth elements doped PMN-PT thin films. <i>Journal of Advanced Ceramics</i> , 2021, 10, 98-107.	17.4	26
20	High piezoelectricity of BiScO ₃ -PbTiO ₃ ceramics prepared by two step sintering. <i>Materials Letters</i> , 2019, 241, 55-59.	2.6	23
21	Characterization of KNN Single Crystals by Slow-Cooling Technique. <i>Ferroelectrics</i> , 2009, 381, 1-8.	0.6	19
22	Design and Preparation of a Micro-Pyramid Structured Thin Film for Broadband Infrared Antireflection. <i>Coatings</i> , 2018, 8, 192.	2.6	16
23	Electric-field-induced polarization fatigue of [001]-oriented single crystals. <i>Solid State Communications</i> , 2011, 151, 1188-1191.	1.9	14
24	Direct observation of domain wall motion and novel dielectric loss in 0.23Pb(In _{1/2} Nb _{1/2})O ₃ –0.42Pb(Mg _{1/3} Nb _{2/3})O ₃ –0.35PbTiO ₃ crystals. <i>CrystEngComm</i> , 2013, 15, 6292.	2.6	14
25	Synthesis, Giant Dielectric, and Pyroelectric Response of [001]-Oriented Pr ³⁺ Doped Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ Ferroelectric Nano-Films Grown on Si Substrates. <i>Materials</i> , 2018, 11, 2392.	2.9	12
26	Revisiting the structural stability and electromechanical properties in lead zinc niobate-lead titanate-barium titanate (PZN-PT-BT) ternary system. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1236-1242.	5.7	12
27	An efficient way to enhance output strain for shear mode Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ crystals: Applying uniaxial stress perpendicular to polar direction. <i>Applied Physics Letters</i> , 2012, 100, 192901.	3.3	11
28	Phase diagram and dielectric properties of $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ ceramics. <i>Journal of Advanced Dielectrics</i> , 2015, 05, 1550014.		
29	High rhombohedral to tetragonal phase transition temperature and electromechanical response in Pb(Yb _{1/2} Nb _{1/2})O ₃ -Pb(Sc _{1/2} Nb _{1/2})O ₃ -PbTiO ₃ ferroelectric system near the morphotropic phase boundary. <i>Journal of the European Ceramic Society</i> , 2019, 39, 2082-2090.	5.7	11
30	Surface Acoustic Wave Gyroscopic Effect in an Interdigital Transducer. <i>Sensors</i> , 2019, 19, 106.	3.8	10
31	Recent Advances on Conducting Polymers Based Nanogenerators for Energy Harvesting. <i>Micromachines</i> , 2021, 12, 1308.	2.9	9
32	Temperature Dependence of Domain Structure in (K _{0.17} Na _{0.83})NbO ₃ Lead Free Piezoelectric Single Crystal Grown by Bridgman Method. <i>Ferroelectrics</i> , 2010, 404, 200-206.	0.6	8
33	Tetragonal-to-Tetragonal Phase Transition in Lead-Free (K _x Na _{1-x})NbO ₃ (x = 0.11 and 0.17) Crystals. <i>Crystals</i> , 2014, 4, 113-122.	2.2	8
34	In-situ observation of domain wall motion in Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ crystals. <i>Journal of Applied Physics</i> , 2014, 116, 034105.	2.5	7
35	Novel Bilayer Micropyramid Structure Photonic Nanojet for Enhancing a Focused Optical Field. <i>Nanomaterials</i> , 2021, 11, 2034.	4.1	7
36	FEM Simulation of a High-Performance 128°Y-X LiNbO ₃ /SiO ₂ /Si Functional Substrate for Surface Acoustic Wave Gyroscopes. <i>Micromachines</i> , 2022, 13, 202.	2.9	7

#	ARTICLE	IF	CITATIONS
37	Achieving both high electromechanical response and stable temperature behavior in Si/SiO ₂ /Al/LiTaO ₃ sandwich structure. AIP Advances, 2019, 9, 035145.	1.3	6
38	The polarization fatigue behavior in Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.32PbTiO ₃ single crystals. Journal of Physics: Conference Series, 2009, 152, 012088.	0.4	5
39	Fabrication and Optical Properties of Transparent P(VDF-TrFE) Ultrathin Films. Nanomaterials, 2022, 12, 588.	4.1	4
40	Analysis and Design of Single-Phase Unidirectional Transducers with High Directivity. Applied Sciences (Switzerland), 2021, 11, 7500.	2.5	2
41	Full extraction of the COM parameters for Rayleigh type surface acoustic wave. AIP Advances, 2022, 12, .	1.3	2
42	Fast, Accurate and Full Extraction of Coupling-of-Modes Parameters by Finite Element Method. Crystals, 2022, 12, 706.	2.2	2
43	Evaluation of PMN-PT based crystals for various applications. , 2011, , .		1