

Da-Bin Lin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	FEM Simulation of a High-Performance 128\AA LiNbO ₃ /SiO ₂ /Si Functional Substrate for Surface Acoustic Wave Gyroscopes. <i>Micromachines</i> , 2022, 13, 202.	2.9	7
2	Full extraction of the COM parameters for Rayleigh type surface acoustic wave. <i>AIP Advances</i> , 2022, 12, .	1.3	2
3	Fabrication and Optical Properties of Transparent P(VDF-TrFE) Ultrathin Films. <i>Nanomaterials</i> , 2022, 12, 588.	4.1	4
4	Ultrahigh Piezoelectric Performance through Synergistic Compositional and Microstructural Engineering. <i>Advanced Science</i> , 2022, 9, e2105715.	11.2	38
5	Fast, Accurate and Full Extraction of Coupling-of-Modes Parameters by Finite Element Method. <i>Crystals</i> , 2022, 12, 706.	2.2	2
6	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
7	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
8	Analysis and Design of Single-Phase Unidirectional Transducers with High Directivity. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7500.	2.5	2
9	Novel Bilayer Micropyramid Structure Photonic Nanojet for Enhancing a Focused Optical Field. <i>Nanomaterials</i> , 2021, 11, 2034.	4.1	7
10	Recent Advances on Conducting Polymers Based Nanogenerators for Energy Harvesting. <i>Micromachines</i> , 2021, 12, 1308.	2.9	9
11	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
12	Atomic-scale origin of ultrahigh piezoelectricity in samarium-doped PMN-PT ceramics. <i>Physical Review B</i> , 2020, 101, .	3.2	69
13	Achieving both high electromechanical response and stable temperature behavior in Si/SiO ₂ /Al/LiTaO ₃ sandwich structure. <i>AIP Advances</i> , 2019, 9, 035145.	1.3	6
14	Surface Acoustic Wave Gyroscopic Effect in an Interdigital Transducer. <i>Sensors</i> , 2019, 19, 106.	3.8	10
15	High piezoelectricity of BiScO ₃ -PbTiO ₃ ceramics prepared by two step sintering. <i>Materials Letters</i> , 2019, 241, 55-59.	2.6	23
16	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
17	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
18	Ultrahigh piezoelectricity in ferroelectric ceramics by design. <i>Nature Materials</i> , 2018, 17, 349-354.	27.5	874

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19	Thermal stability and electric-field-induced strain behaviors for PIN-PT piezoelectric ceramics. Journal of the American Ceramic Society, 2018, 101, 316-325.	3.8	29
20	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. Materials, 2018, 11, 2392.	2.9	12
21	Design and Preparation of a Micro-Pyramid Structured Thin Film for Broadband Infrared Antireflection. Coatings, 2018, 8, 192.	2.6	16
22	Investigation of morphotropic phase boundaries in PIN-PT relaxor ferroelectric ternary systems with high T _{r-t} and T _c phase transition temperatures. Journal of the European Ceramic Society, 2017, 37, 2813-2823.	5.7	35
23	Dielectric and conductivity behavior of Mn-doped K _{0.5} Na _{0.5} NbO ₃ single crystal. Solid State Communications, 2017, 264, 1-5.	1.9	26
24	Colossal dielectric permittivity in hydrogen-reduced rutile TiO ₂ crystals. Journal of Alloys and Compounds, 2017, 692, 375-380.	5.5	59
25	Phase diagram and dielectric properties of Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ ceramics. Journal of Advanced Dielectrics, 2015, 05, 1550014.		
26	Piezoelectric activity in Perovskite ferroelectric crystals. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 18-32.	3.0	94
27	Domain size engineering in 0.5%MnO ₂ -(K _{0.5} Na _{0.5})NbO ₃ lead free piezoelectric crystals. Journal of Applied Physics, 2015, 117, .	2.5	28
28	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. Journal of Applied Physics, 2014, 116, 034105.	2.5	7
29	Tetragonal-to-Tetragonal Phase Transition in Lead-Free (K _x Na _{1-x})NbO ₃ (x = 0.11 and 0.17) Crystals. Crystals, 2014, 4, 113-122.	2.2	8
30	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. CrystEngComm, 2013, 15, 6292.	2.6	14
31	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. Applied Physics Letters, 2012, 100, 192901.	3.3	11
32	Evaluation of PMN-PT based crystals for various applications. , 2011, , .		1
33	Electromechanical properties of Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals. Journal of Applied Physics, 2011, 109, 14108.	2.5	87
34	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. Journal of Applied Physics, 2011, 110, 84110-841106.	2.5	65
35	Influence of domain size on the scaling effects in Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ ferroelectric crystals. Scripta Materialia, 2011, 64, 1149-1151.	5.2	40
36	Electric-field-induced polarization fatigue of [001]-oriented single crystals. Solid State Communications, 2011, 151, 1188-1191.	1.9	14

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37	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. Journal of the American Ceramic Society, 2010, 93, 941-944.	3.8	71
38	Electric-field and temperature induced phase transitions in Pb(Mg _{1/3} Nb _{2/3})O ₃ –0.3PbTiO ₃ single crystals. Journal of Applied Physics, 2010, 108, 034112.	2.5	33
39	Characterization and piezoelectric thermal stability of PIN–PMN–PT ternary ceramics near the morphotropic phase boundary. Journal of Alloys and Compounds, 2010, 489, 115-118.	5.5	88
40	Temperature Dependence of Domain Structure in (K _{0.17} Na _{0.83})NbO ₃ Lead Free Piezoelectric Single Crystal Grown by Bridgman Method. Ferroelectrics, 2010, 404, 200-206.	0.6	8
41	Characterization of KNN Single Crystals by Slow-Cooling Technique. Ferroelectrics, 2009, 381, 1-8.	0.6	19
42	Dielectric/piezoelectric properties and temperature dependence of domain structure evolution in lead free single crystal. Solid State Communications, 2009, 149, 1646-1649.	1.9	77
43	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