

Ausrine Bartasyte

List of Publications by Year in descending order

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394286

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docs citations

72
times ranked

1673
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid lead-free polymer-based nanocomposites with improved piezoelectric response for biomedical energy-harvesting applications: A review. Nano Energy, 2019, 62, 475-506.	8.2	238
2	Toward High-Quality Epitaxial LiNbO_3 and LiTaO_3 Thin Films for Acoustic and Optical Applications. Advanced Materials Interfaces, 2017, 4, 1600998.	1.9	80
3	Resolved E-symmetry zone-centre phonons in LiTaO_3 and LiNbO_3 . Journal of Applied Physics, 2012, 111, .	1.1	76
4	Identification of LiNbO_3 , LiNbO_3O_8 and Li_3NbO_4 phases in thin films synthesized with different deposition techniques by means of XRD and Raman spectroscopy. Journal of Physics Condensed Matter, 2013, 25, 205901.	0.7	50
5	New sterically hindered Hf, Zr and Y I^2 -diketonates as MOCVD precursors for oxide films. Journal of Materials Chemistry, 2004, 14, 1245-1251.	6.7	46
6	LaFeO_3 Nanofibers for High Detection of Sulfur-Containing Gases. ACS Sustainable Chemistry and Engineering, 2019, 7, 6023-6032.	3.2	46
7	Investigation of thickness-dependent stress in PbTiO_3 thin films. Journal of Applied Physics, 2008, 103, .	1.1	36
8	Residual stress estimation in ferroelectric PbTiO_3 thin films by Raman spectroscopy. Physical Review B, 2009, 79, .	1.1	32
9	Temperature-dependent Raman scattering of $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ thin films. Applied Physics Letters, 2010, 96, .	1.5	31
10	Ferroelectric nanodomains in epitaxial PbTiO_3 films grown on SmScO_3 and TbScO_3 substrates. Journal of Applied Physics, 2013, 113, .	1.1	31
11	LiNbO_3 films – A low-cost alternative lead-free piezoelectric material for vibrational energy harvesters. Mechanical Systems and Signal Processing, 2021, 149, 107171.	4.4	31
12	Growth of $\text{LiNb}_{1-x}\text{Ta}_x\text{O}_3$ solid solution crystals. Materials Chemistry and Physics, 2012, 134, 728-735.	2.0	28
13	Packageless AlN/ZnO/Si Structure for SAW Devices Applications. IEEE Sensors Journal, 2013, 13, 487-491.	2.4	28
14	Piezoelectric Response in Hybrid Micropillar Arrays of Poly(Vinylidene Fluoride) and Reduced Graphene Oxide. Polymers, 2019, 11, 1065.	2.0	28
15	Hafnium oxoneopentoxide as a new MOCVD precursor for hafnium oxide films. Journal of Crystal Growth, 2004, 267, 529-537.	0.7	26
16	Multi-dimensional constrained energy optimization of a piezoelectric harvester for E-gadgets. IScience, 2021, 24, 102749.	1.9	24
17	Residual stresses and clamped thermal expansion in LiNbO_3 and LiTaO_3 thin films. Applied Physics Letters, 2012, 101, 122902.	1.5	23
18	Highly coupled and low frequency vibrational energy harvester using lithium niobate on silicon. Applied Physics Letters, 2021, 119, .	1.5	22

#	ARTICLE	IF	CITATIONS
19	Metal-organic chemical vapour deposition of mixed-conducting perovskite oxide layers on monocrystalline and porous ceramic substrates. Thin Solid Films, 2004, 449, 94-99.	0.8	19
20	AlN/IDT/AlN/Sapphire SAW Heterostructure for High-Temperature Applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 898-906.	1.7	16
21	Upconverting tri-doped calcium fluoride-based thin films: a comparison of the MOCVD and sol-gel preparation methods. Journal of Materials Chemistry C, 2020, 8, 3865-3877.	2.7	16
22	A Self-Powered and Battery-Free Vibrational Energy to Time Converter for Wireless Vibration Monitoring. Sensors, 2021, 21, 7503.	2.1	16
23	Raman spectroscopy and X-ray diffraction studies of stress effects in PbTiO ₃ thin films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2623-2631.	1.7	15
24	Thickness dependent stresses and thermal expansion of epitaxial LiNbO ₃ thin films on C-sapphire. Materials Chemistry and Physics, 2015, 149-150, 622-631.	2.0	15
25	As-grown domain structure in lithium tantalate with spatially nonuniform composition. Ferroelectrics, 2018, 525, 47-53.	0.3	15
26	Raman Study of CeO ₂ Texture as a Buffer Layer in the CeO ₂ /La ₂ Zr ₂ O ₇ /Ni Architecture for Coated Conductors. Applied Spectroscopy, 2009, 63, 401-406.	1.2	13
27	Observation of unusual temperature-dependent stripes in LiTaO ₃ and LiNbO ₃ crystals with near-zero birefringence. Journal of Applied Crystallography, 2010, 43, 1305-1313.	1.9	13
28	High-frequency surface acoustic wave devices based on epitaxial Z-LiNbO ₃ layers on sapphire. Applied Physics Letters, 2019, 114, .	1.5	13
29	Multifunctional oxide nanostructures by metal-organic chemical vapor deposition (MOCVD). Pure and Applied Chemistry, 2009, 81, 1523-1534.	0.9	12
30	Ferroelectric domains in epitaxial PbTiO ₃ films on LaAlO ₃ substrate investigated by piezoresponse force microscopy and far-infrared reflectance. Journal of Applied Physics, 2011, 110, .	1.1	12
31	Relationship between the structure and optical properties of lithium tantalate at the zero-birefringence point. Journal of Applied Physics, 2017, 121, .	1.1	12
32	Ferroelectric PbTiO ₃ Films Grown by Pulsed Liquid Injection Metalorganic Chemical Vapour Deposition. Ferroelectrics, 2007, 353, 104-115.	0.3	11
33	Crystallographic and optical study of LiNbO ₃ and LiTaO ₃ . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 498-506.	0.5	11
34	Vibrational modes and overlap matrix of LiNbO_3 and LiTaO_3 crystals with near-zero birefringence. Journal of Applied Crystallography, 2012, 45, 1030-1037.	1.1	11
35	Facile synthesis of novel lithium β -diketonate glyme adducts: the effect of molecular engineering on the thermal properties. Dalton Transactions, 2020, 49, 1002-1006.	1.6	11
36	LiTaO ₃ crystals with near-zero birefringence. Journal of Applied Crystallography, 2012, 45, 1030-1037.	1.9	10

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37	Ferroelectric PbTiO ₃ films grown by pulsed liquid injection MOCVD. Surface and Coatings Technology, 2007, 201, 9340-9344.	2.2	9
38	Effect of deposition conditions on the stoichiometry and structural properties of LiNbO ₃ thin films deposited by MOCVD. Proceedings of SPIE, 2013, , .	0.8	8
39	Piezoelectric and Pyroelectric Energy Harvesting from Lithium Niobate Films. Journal of Physics: Conference Series, 2019, 1407, 012039.	0.3	8
40	Piezoelectric Ba and Ti co-doped BiFeO ₃ textured films: selective growth of solid solutions or nanocomposites. Journal of Materials Chemistry C, 2020, 8, 16168-16179.	2.7	8
41	Thick SmBCO layers and SmBCO/YBCO structures grown by pulsed injection MOCVD. Physica C: Superconductivity and Its Applications, 2004, 415, 21-28.	0.6	7
42	Domain structure and Raman modes in PbTiO ₃ . Phase Transitions, 2011, 84, 509-520.	0.6	7
43	Lead-Free LiNbO ₃ Thick Film MEMS Kinetic Cantilever Beam Sensor/Energy Harvester. Sensors, 2022, 22, 559.	2.1	7
44	Relationship Processingâ€“Compositionâ€“Structureâ€“Resistivity of LaNiO ₃ Thin Films Grown by Chemical Vapor Deposition Methods. Coatings, 2019, 9, 35.	1.2	6
45	On the possibility of growing unidirectionally twinned YBa ₂ Cu ₃ O _{7-δ} thin films on YAlO ₃ . Physica C: Superconductivity and Its Applications, 2003, 400, 36-42.	0.6	5
46	Stability of the polydomain state in epitaxial ferroelectric PbTiO ₃ films. Applied Physics Letters, 2008, 93, 242907.	1.5	5
47	Packageless temperature sensor based on AlN/IDT/ZnO/Silicon layered structure. , 2013, , .		4
48	Direct Liquid Injection Chemical Vapor Deposition. , 0, , .		4
49	Dy-Doped BiFeO ₃ thin films: piezoelectric and bandgap tuning. Materials Advances, 2022, 3, 3446-3456.	2.6	4
50	AlN/ZnO/Si structure - a packageless solution for acoustic wave sensors. , 2011, , .		3
51	AlN/IDT/AlN/Sapphire as packageless structure for SAW applications in harsh environments. , 2012, , .		3
52	Effect of LiNbO ₃ polarity on the structural, optical and acoustic properties of epitaxial ZnO and Mg _x Zn _{1-x} O films. Journal Physics D: Applied Physics, 2018, 51, 484003.	1.3	3
53	Double-peaked resonance in harmonic-free acoustically driven ferromagnetic resonance. Applied Physics Letters, 2021, 119, .	1.5	3
54	Self-Poled Heteroepitaxial Bi _{1-x} Dy _{x} FeO ₃ Films with Promising Pyroelectric Properties. Advanced Materials Interfaces, 2022, 9, .	1.9	3

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55	Deposition of crack-free 30 µm AlN on IDT/ZnO/Si for wave guiding layer acoustic wave applications. , 2011, , .		2
56	Estimation of temperature dependence of C_{44} elastic constant in LiTaO_3 single crystals. , 2015, , .		2
57	Ferroelectricity and Ferromagnetism of $\text{BaTiO}_3/\text{BaFeO}_3$ Superlattice Thin Films. Japanese Journal of Applied Physics, 2012, 51, 09LB01.	0.8	2
58	Growth of Pr_2O_3 layers by pulsed injection MOCVD. Materials Research Society Symposia Proceedings, 2004, 811, 387.	0.1	1
59	Ferroelectricity and Ferromagnetism of $\text{BaTiO}_3/\text{BaFeO}_3$ Superlattice Thin Films. Japanese Journal of Applied Physics, 2012, 51, 09LB01.	0.8	1
60	Effect of microwave remote plasma and radiofrequency plasma on the photoluminescence of (0001) epitaxial ZnO films. Materials Chemistry and Physics, 2014, 147, 623-628.	2.0	1
61	Electrical design and simulation of kinetic piezoelectric harvester for distributed control cells. , 2016, , .		1
62	$\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ thin films grown by pulsed injection MOCVD. European Physical Journal Special Topics, 2001, 11, Pr11-215-Pr11-219.	0.2	0
63	Raman Spectroscopy and X-ray Diffraction Studies of Stress Effects in PbTiO_3 Thin Films. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	0
64	Structural investigation of LN/LT ¹ superlattice thin films by field effect scanning transmission electron microscopy equipped with electron dispersive x-ray spectroscopy. , 2011, , .		0
65	Reduction of temperature coefficient of frequency in LiTaO_3 single crystals for surface acoustic wave applications. , 2012, , .		0
66	Structural characterization of PbTiO_3 , $\text{Sm}_{0.6}\text{Nd}_{0.4}\text{NiO}_3$ and NdMnO_3 multifunctional Perovskite thin films. EPJ Web of Conferences, 2012, 29, 00009.	0.1	0
67	LiTaO_3 single crystals treated by Vapour Transport Equilibration for temperature-compensated SAW devices. , 2012, , .		0
68	X-ray and transmission electron microscopy structural characterization of multifunctional Perovskite thin films. Thin Solid Films, 2012, 520, 4608-4612.	0.8	0
69	Influence of plasma treatments and SnO_2 alloying on the conductive properties of epitaxial Ga_2O_3 films deposited on C-sapphire by chemical vapor deposition. , 2016, , .		0
70	Characterization of single-port SAW resonators at 3.7 GHz based on epitaxial LiNbO_3 layers. , 2017, , .		0
71	 Ga_2O_3 films alloyed with SnO_2 and treated by RF plasma: an interesting way for the development of transparent contacts for UV-emitting photonics devices. , 2016, , .		0