Agne Zukauskaite

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6283725/publications.pdf

Version: 2024-02-01

40 papers	1,055 citations	471509 17 h-index	454955 30 g-index
41 all docs	41 docs citations	41 times ranked	764 citing authors

#	Article	IF	Citations
1	Static High Voltage Actuation of Piezoelectric AlN and AlScN Based Scanning Micromirrors. Micromachines, 2022, 13, 625.	2.9	2
2	Stability and residual stresses of sputtered wurtzite AlScN thin films. Physical Review Materials, 2021, 5, .	2.4	19
3	Properties of higher-order surface acoustic wave modes in Al1â^'xScxN/sapphire structures. Journal of Applied Physics, 2021, 130, .	2.5	8
4	Thin-Film-Based SAW Magnetic Field Sensors. Sensors, 2021, 21, 8166.	3.8	12
5	Metalâ€Organic Chemical Vapor Deposition of Aluminum Scandium Nitride. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900535.	2.4	54
6	In-Plane Oriented Stacks of c-AlScN/Mo (110) for BAW Resonators Grown by Magnetron Sputter Epitaxy. , 2020, , .		1
7	Enhanced electromechanical coupling in SAW resonators based on sputtered non-polar Al0.77Sc0.23N 112Â¯ thin films. Applied Physics Letters, 2020, 116, .	3.3	28
8	Novel Method for Extracting Material Constants of Epitaxial Wurtzite AlScN Films on Sapphire Using Higher Order Surface Acoustic Wave Modes. , 2020, , .		2
9	Non-Polar a-plane AlScN($11overline{2}0$) Thin Film Based SAW Resonators with Significantly Improved Electromechanical Coupling. , 2020, , .		0
10	Determining Elastic Constants of AlScN Films on Silicon Substrates by Laser Ultrasonics. , 2020, , .		0
11	Experimental determination of the electro-acoustic properties of thin film AlScN using surface acoustic wave resonators. Journal of Applied Physics, 2019, 126, .	2.5	65
12	Optical constants and band gap of wurtzite Al1â^'xScxN/Al2O3 prepared by magnetron sputter epitaxy for scandium concentrations up to xâ€‰=â€‰0.41. Journal of Applied Physics, 2019, 126, .	2.5	46
13	Formation of icosahedron twins during initial stages of heteroepitaxial diamond nucleation and growth. Journal of Applied Physics, 2019, 125, .	2.5	10
14	Finite Element Analysis of SAW Propagation Characteristics in c-plane (0001) and a-plane (11-20) AlScN Thin Films. , 2019, , .		6
15	Experimental determination of Al1-xScxN thin film thermo-electro-acoustic properties up to 140Â°C by using SAW resonators. , 2019, , .		0
16	Temperature Dependence of the Pyroelectric Coefficient of AlScN Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700831.	1.8	24
17	Piezoelectric characterization of Sc_{0.26}Al_{0.74}N layers on Si (001) substrates. Materials Research Express, 2018, 5, 036407.	1.6	10
18	Surface Morphology and Microstructure of Pulsed DC Magnetron Sputtered Piezoelectric AlN and AlScN Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700559.	1.8	42

#	Article	IF	Citations
19	Investigation of Temperature Characteristics and Substrate Influence on AlScN-Based SAW Resonators. , 2018, , .		7
20	Pulsed laser deposition of ferroelectric potassium tantalate-niobate optical waveguiding thin films. Optical Materials Express, 2018, 8, 541.	3.0	9
21	Elastic modulus and coefficient of thermal expansion of piezoelectric Al_{1â^'x}Sc_xN (up to x = 0.41) thin films. APL Materials, 2018, 6, 076105.	5.1	71
22	Temperature Cross-Sensitivity of AlN-Based Flexural Plate Wave Sensors. IEEE Sensors Journal, 2018, 18, 7810-7818.	4.7	4
23	Microstructure and mechanical properties of stress-tailored piezoelectric AlN thin films for electro-acoustic devices. Applied Surface Science, 2017, 407, 307-314.	6.1	34
24	Nanodiamond resonators fabricated on 8â€³ Si substrates using adhesive wafer bonding. Journal of Micromechanics and Microengineering, 2017, 27, 065011.	2.6	2
25	Potassium tantalate-niobate mixed crystal thin films for applications in nonlinear integrated optics. Journal of Physics: Conference Series, 2017, 867, 012020.	0.4	1
26	Flexural plate wave sensors with buried IDT for sensing in liquids. , 2017, , .		4
27	Potassium-tantalate-niobate mixed crystal thin films for applications in nonlinear integrated optics. , 2017, , .		0
28	Enhanced actuation of nanocrystalline diamond microelectromechanical disk resonators with AlN layers. Applied Physics Letters, 2016, 108, .	3.3	9
29	Analysis and optimization of sputter deposited AlN-layers for flexural plate wave devices. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	1.2	18
30	Ab initio calculations and experimental study of piezoelectric Y In1â^'N thin films deposited using reactive magnetron sputter epitaxy. Acta Materialia, 2016, 105, 199-206.	7.9	20
31	Infrared dielectric functions and optical phonons of wurtzite Y_xAl_{1â^'x}N (0â€‰â€‰â©½â€‰â€‰xâ€‰â€‰â©½â€‰â€‰0.22). Journal Physics 48, 415102.	2.8	11
32	Nanoprobe mechanical and piezoelectric characterization of Sc_xAl_{1â^'x}N(0001) thin films. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 666-673.	1.8	15
33	Stabilization of wurtzite Sc0.4Al0.6N in pseudomorphic epitaxial Sc Al1â^'N/In Al1â^'N superlattices. Acta Materialia, 2015, 94, 101-110.	7.9	19
34	Bandgap Engineering and Optical Constants of YxAl1-xN Alloys. Japanese Journal of Applied Physics, 2013, 52, 08JM02.	1.5	11
35	Microstructure and dielectric properties of piezoelectric magnetron sputtered w-ScxAl1â^'xN thin films. Journal of Applied Physics, 2012, 111, .	2.5	93
36	Y_xAl_{1â^'x}N thin films. Journal Physics D: Applied Physics, 2012, 45, 422001.	2.8	42

#	Article	IF	Citations
37	Anomalously high thermoelectric power factor in epitaxial ScN thin films. Applied Physics Letters, 2011, 99, .	3.3	84
38	Wurtzite structure Sc1â^'xAlxN solid solution films grown by reactive magnetron sputter epitaxy: Structural characterization and first-principles calculations. Journal of Applied Physics, 2010, 107, .	2.5	122
39	Increased electromechanical coupling in wâ^'ScxAl1â^'xN. Applied Physics Letters, 2010, 97, .	3.3	149
40	Modelling of neutron and photon transport in iron and concrete radiation shieldings by the Monte Carlo method. Lithuanian Journal of Physics, 2007, 47, 97-101.	0.4	0