

Yuan Lu

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

361
citations

1040056

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1372567

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docs citations

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times ranked

330
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic modulus and coefficient of thermal expansion of piezoelectric $\text{Al}_{1-x}\text{Sc}_x\text{N}$ (up to $x = 0.41$) thin films. <i>APL Materials</i> , 2018, 6, 076105.	5.1	71
2	Experimental determination of the electro-acoustic properties of thin film AlScN using surface acoustic wave resonators. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	65
3	Optical constants and band gap of wurtzite $\text{Al}_{1-x}\text{Sc}_x\text{N}/\text{Al}_2\text{O}_3$ prepared by magnetron sputter epitaxy for scandium concentrations up to $x = 0.41$. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	46
4	Surface Morphology and Microstructure of Pulsed DC Magnetron Sputtered Piezoelectric AlN and AlScN Thin Films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700559.	1.8	42
5	Microstructure and mechanical properties of stress-tailored piezoelectric AlN thin films for electro-acoustic devices. <i>Applied Surface Science</i> , 2017, 407, 307-314.	6.1	34
6	Enhanced electromechanical coupling in SAW resonators based on sputtered non-polar $\text{Al}_{0.77}\text{Sc}_{0.23}\text{N}$ thin films. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	28
7	Temperature Dependence of the Pyroelectric Coefficient of AlScN Thin Films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700831.	1.8	24
8	Thermal and phase-separation behavior of injection-molded poly(l-lactic acid)/poly(d-lactic acid) blends with moderate optical purity. <i>Polymer Bulletin</i> , 2012, 68, 1135-1151.	3.3	21
9	Low Loss $\text{Al}_{0.7}\text{Sc}_{0.3}\text{N}$ Thin Film Acoustic Delay Lines. <i>IEEE Electron Device Letters</i> , 2022, 43, 647-650.	3.9	14
10	$\text{Al}_{0.7}\text{Sc}_{0.3}\text{N}$ butterfly-shaped laterally vibrating resonator with a figure-of-merit (k^2/Q_m) over 146. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	9
11	Investigation of Temperature Characteristics and Substrate Influence on AlScN -Based SAW Resonators. , 2018, , .		7
12	Experimental determination of $\text{Al}_{1-x}\text{Sc}_x\text{N}$ thin film thermo-electro-acoustic properties up to 140°C by using SAW resonators. , 2019, , .		0
13	Non-Polar a-plane AlScN Thin Film Based SAW Resonators with Significantly Improved Electromechanical Coupling. , 2020, , .		0