

Yuan Lu

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

361
citations

1040056

9
h-index

1372567

10
g-index

13
all docs

13
docs citations

13
times ranked

330
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Loss Al _{0.7} Sc _{0.3} N Thin Film Acoustic Delay Lines. IEEE Electron Device Letters, 2022, 43, 647-650.	3.9	14
2	Al _{0.7} Sc _{0.3} N butterfly-shaped laterally vibrating resonator with a figure-of-merit (kt^2/Qm) over 146. Applied Physics Letters, 2022, 120, .	3.3	9
3	Enhanced electromechanical coupling in SAW resonators based on sputtered non-polar Al _{0.77} Sc _{0.23} N 112Å thin films. Applied Physics Letters, 2020, 116, .	3.3	28
4	Non-Polar a-plane AlScN($\overline{2}0\overline{0}$) Thin Film Based SAW Resonators with Significantly Improved Electromechanical Coupling. , 2020, , .		0
5	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
6	Optical constants and band gap of wurtzite Al _{1-x} Sc _x N/Al ₂ O ₃ prepared by magnetron sputter epitaxy for scandium concentrations up to $x=0.41$. Journal of Applied Physics, 2019, 126, .	2.5	46
7	Experimental determination of Al _{1-x} Sc _x N thin film thermo-electro-acoustic properties up to 140°C by using SAW resonators. , 2019, , .		0
8	Temperature Dependence of the Pyroelectric Coefficient of AlScN Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700831.	1.8	24
9	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
10	Investigation of Temperature Characteristics and Substrate Influence on AlScN-Based SAW Resonators. , 2018, , .		7
11	Elastic modulus and coefficient of thermal expansion of piezoelectric Al _{1-x} Sc _x N (up to $x = 0.41$) thin films. APL Materials, 2018, 6, 076105.	5.1	71
12	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
13	Thermal and phase-separation behavior of injection-molded poly(l-lactic acid)/poly(d-lactic acid) blends with moderate optical purity. Polymer Bulletin, 2012, 68, 1135-1151.	3.3	21