

El Hadj Dogheche

List of Publications by Year in descending order

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papers

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citations

394421

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55
all docs

55
docs citations

55
times ranked

1014
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Doppler vibrometry for evaluating the piezoelectric coefficient d_{33} on thin film. Review of Scientific Instruments, 2006, 77, 093905.	1.3	74
2	Mechanical properties of diamond films: A comparative study of polycrystalline and smooth fine-grained diamonds by Brillouin light scattering. Journal of Applied Physics, 2001, 90, 3771-3779.	2.5	68
3	LiNbO ₃ thick films grown on sapphire by using a multistep sputtering process. Journal of Applied Physics, 2001, 90, 5274-5277.	2.5	49
4	Ultra-low loss ridge waveguides on lithium niobate via argon ion milling and gas clustered ion beam smoothing. Optics Express, 2018, 26, 4421.	3.4	45
5	Optical waveguide loss minimized into gallium nitride based structures grown by metal organic vapor phase epitaxy. Applied Physics Letters, 2011, 98, .	3.3	40
6	Efficient reduction of Cr(VI) under visible light irradiation using CuS nanostructures. Arabian Journal of Chemistry, 2019, 12, 215-224.	4.9	40
7	Micro structuring of LiNbO ₃ by using nanosecond pulsed laser ablation. Applied Surface Science, 2007, 254, 1327-1331.	6.1	29
8	Electro-optic characterization of (Pb,La)TiO ₃ thin films using prism-coupling technique. Journal of Applied Physics, 1999, 85, 1780-1783.	2.5	27
9	Growth and optical characterization of aluminum nitride thin films deposited on silicon by radio-frequency sputtering. Applied Physics Letters, 1999, 74, 1209-1211.	3.3	26
10	Thick LiNbO ₃ layers on diamond-coated silicon for surface acoustic wave filters. Applied Physics Letters, 2002, 81, 1329-1331.	3.3	26
11	m-line spectroscopy for optical analysis of thick LiNbO ₃ layers grown on sapphire substrates by radio-frequency multistep sputtering. Journal of Applied Physics, 2003, 93, 1165-1168.	2.5	25
12	Correlation between threading dislocation density and the refractive index of AlN grown by molecular-beam epitaxy on Si(111). Applied Physics Letters, 2003, 82, 1386-1388.	3.3	24
13	Structural, ferroelectric and dielectric properties of In ₂ O ₃ :Sn (ITO) on PbZr _{0.53} Ti _{0.47} O ₃ (PZT)/Pt and annealing effect. Journal of Alloys and Compounds, 2011, 509, 6072-6076.	5.5	24
14	Optical waveguiding in epitaxial PbTiO ₃ thin films. Applied Optics, 1998, 37, 4245.	2.1	23
15	High-frequency surface acoustic wave devices based on LiNbO ₃ -diamond multilayered structure. Applied Physics Letters, 2005, 87, 213503.	3.3	23
16	Effect of varying pore size of AAO films on refractive index and birefringence measured by prism coupling technique. Optics Letters, 2011, 36, 4272.	3.3	23
17	Fabrication and investigation of 1D and 2D structures in LiNbO ₃ thin films by pulsed laser ablation. Optical Materials, 2010, 32, 1427-1434.	3.6	22
18	Interface properties of Al _x Ga _{1-x} N/AlN heterostructures from optical waveguiding information. Applied Physics Letters, 1999, 75, 3324-3326.	3.3	21

#	ARTICLE	IF	CITATIONS
19	Dynamic Characterization of III-Nitride-Based High-Speed Photodiodes. IEEE Photonics Journal, 2017, 9, 1-7.	2.0	20
20	A Barium Titanateâ€œonâ€œOxide Insulator Optoelectronics Platform. Advanced Materials, 2021, 33, e2101128.	21.0	19
21	The effect of LaNiO3 bottom electrode thickness on ferroelectric and dielectric properties of (100) oriented PbZr0.53Ti0.47O3 films. Journal of Crystal Growth, 2005, 284, 184-189.	1.5	18
22	Facile growth of density- and diameter-controlled GaN nanobridges and their photodetector application. Journal of Materials Chemistry C, 2017, 5, 11879-11884.	5.5	18
23	Design and Simulation of InGaN/GaN pâ€œiâ€œn Photodiodes. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700521.	1.8	14
24	Growth Process and Surface Acoustic Wave Characteristics of LiNbO3/Diamond/Silicon Multilayered Structures. Japanese Journal of Applied Physics, 2003, 42, 572-574.	1.5	13
25	Prospective for Gallium Nitride-Based Optical Waveguide Modulators. IEICE Transactions on Electronics, 2012, E95.C, 1363-1368.	0.6	12
26	Growth of <i>c</i>-Axisâ€œOriented BiCuSeO Thin Films Directly on Si Wafers. Journal of the American Ceramic Society, 2016, 99, 3367-3370.	3.8	12
27	Optical waveguiding properties into porous gallium nitride structures investigated by prism coupling technique. Applied Physics Letters, 2014, 105, .	3.3	9
28	An Optical Power Divider Based on Mode Coupling Using GaN/Al2O3 for Underwater Communication â€œ. Photonics, 2019, 6, 63.	2.0	9
29	Analysis of Frequency Response of IDT/ZnO/Si SAW Filter Using the Coupling of Modes Model. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2011-2015.	3.0	8
30	Measurement Methods for the d33 Coefficient of PZT Thin Films on Silicon Substrates: A Comparison of Double-Beam Laser Interferometer (DBI) and Single-Beam Laser Vibrometer (LDV) Techniques. Ferroelectrics, 2007, 351, 122-130.	0.6	8
31	Surface plasmon modulation induced by a direct-current electric field into gallium nitride thin film grown on Si(111) substrate. Applied Physics Letters, 2013, 102, 021905.	3.3	8
32	Synthesis of In0.1Ga0.9N/GaN structures grown by MOCVD and MBE for high speed optoelectronics. MRS Advances, 2016, 1, 1735-1742.	0.9	7
33	Guided-wave electro-optic characterization of BaTiO_3 thin films using the prism coupling technique. Optics Letters, 2013, 38, 1037.	3.3	6
34	Design of GaN-Based Low-Loss Y-Branch Power Splitter. Makara Journal of Technology, 2015, 18, 101.	0.3	6
35	Design of a Four-Branch Optical Power Splitter Based on Gallium-Nitride Using Rectangular Waveguide Coupling for Telecommunication Links. Journal of Engineering (United States), 2019, 2019, 1-9.	1.0	6
36	Structural and photoluminescence studies of highly crystalline un-annealed ZnO nanorods arrays synthesized by hydrothermal technique. Journal of Luminescence, 2013, 144, 234-240.	3.1	5

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37	Gallium-nitride-based plasmonic multilayer operating at 155Å¼m. Optics Letters, 2012, 37, 3039.	3.3	4
38	Impact of trap states on inductive phenomena in 30% InGaN/GaN MQW LED devices. Journal Physics D: Applied Physics, 2019, 52, 105102.	2.8	4
39	Development of Micron Sized Photonic Devices Based on Deep GaN Etching. Photonics, 2021, 8, 68.	2.0	4
40	Numerical study of high-efficient and high-speed In _{0.1} Ga _{0.9} ÅN/GaN multiple quantum well photodiodes. Journal of Computational Electronics, 2021, 20, 1729-1738.	2.5	4
41	III-Nitride Semiconductors based Optical Power Splitter Device Design for underwater Application. International Journal of Electrical and Computer Engineering, 2018, 8, 3866.	0.7	4
42	Nanotechnology to Improve the Performances of Hydrodynamic Surfaces. Coatings, 2019, 9, 808.	2.6	3
43	Fast Humidity Sensing and Switching of LiNbO ₃ Films on Silicon. Molecular Crystals and Liquid Crystals, 2011, 535, 196-203.	0.9	2
44	A GaN/sapphire 1 Å– 4 Optical Power Splitter Using Five Rectangular Waveguide for Underwater Application*. , 2018, , .		2
45	Transport and storage dynamics of 30% In-rich InGaN/GaN MQW LED pâ€™iâ€™n structure. Journal Physics D: Applied Physics, 2019, 52, 345302.	2.8	2
46	Design of GaN-Based Low-Loss Y-Branch Power Splitter. Makara Journal of Technology, 2015, 18, 101.	0.3	2
47	Improvement of LiNbO ₃ Surface Roughness by Using a Multi-Step Process: Relationship Between Optical and AFM Analysis. Integrated Ferroelectrics, 2002, 49, 211-219.	0.7	1
48	Investigation of structural, morphological and optical properties of GaN/AlGaIn heterostructures on Si. , 2012, , .		1
49	Optical Properties of Gallium Nitride Heterostructures Grown on Silicon for Waveguiding Application. Advanced Materials Research, 2014, 980, 41-45.	0.3	1
50	Design of a four-branch optical power splitter using III-nitride semiconductors. , 2017, , .		1
51	Design and Fabrication of Micro LEDs for High Data Rate LiFi Communications. , 2019, , .		1
52	Morphological, structural, electrical, and piezoelectric analysis of hydrothermally grown ZnO nanowires on various substrates. Surfaces and Interfaces, 2022, 31, 102103.	3.0	1
53	Novel approach for planar Bragg grating characterization using prism coupling. Proceedings of SPIE, 2009, , .	0.8	0
54	The effect of waveguide parameters on gan based S-bend Y-junction optical power divider. , 2017, , .		0

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55	An efficient GaN-based two branches optical power splitter based on self-imaging phenomena. , 2019, , .		0