

El Hadj Dogheche

List of Publications by Year in descending order

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55
papers

844
citations

394421

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times ranked

1014
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphological, structural, electrical, and piezoelectric analysis of hydrothermally grown ZnO nanowires on various substrates. <i>Surfaces and Interfaces</i> , 2022, 31, 102103.	3.0	1
2	Development of Micron Sized Photonic Devices Based on Deep GaN Etching. <i>Photonics</i> , 2021, 8, 68.	2.0	4
3	A Barium Titanateâ€œonâ€œOxide Insulator Optoelectronics Platform. <i>Advanced Materials</i> , 2021, 33, e2101128.	21.0	19
4	Numerical study of high-efficient and high-speed In _{0.1} Ga _{0.9} AN/GaN multiple quantum well photodiodes. <i>Journal of Computational Electronics</i> , 2021, 20, 1729-1738.	2.5	4
5	Design of a Four-Branch Optical Power Splitter Based on Gallium-Nitride Using Rectangular Waveguide Coupling for Telecommunication Links. <i>Journal of Engineering (United States)</i> , 2019, 2019, 1-9.	1.0	6
6	Design and Fabrication of Micro LEDs for High Data Rate LiFi Communications. , 2019, , .		1
7	Transport and storage dynamics of 30% In-rich InGaN/GaN MQW LED pâ€™iâ€™n structure. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 345302.	2.8	2
8	Nanotechnology to Improve the Performances of Hydrodynamic Surfaces. <i>Coatings</i> , 2019, 9, 808.	2.6	3
9	An Optical Power Divider Based on Mode Coupling Using GaN/Al ₂ O ₃ for Underwater Communication â€™. <i>Photonics</i> , 2019, 6, 63.	2.0	9
10	Impact of trap states on inductive phenomena in 30% InGaN/GaN MQW LED devices. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 105102.	2.8	4
11	Efficient reduction of Cr(VI) under visible light irradiation using CuS nanostructures. <i>Arabian Journal of Chemistry</i> , 2019, 12, 215-224.	4.9	40
12	An efficient GaN-based two branches optical power splitter based on self-imaging phenomena. , 2019, , .		0
13	Design and Simulation of InGaN/GaN pâ€™iâ€™n Photodiodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700521.	1.8	14
14	A GaN/sapphire 1 Å– 4 Optical Power Splitter Using Five Rectangular Waveguide for Underwater Application*. , 2018, , .		2
15	Ultra-low loss ridge waveguides on lithium niobate via argon ion milling and gas clustered ion beam smoothing. <i>Optics Express</i> , 2018, 26, 4421.	3.4	45
16	III-Nitride Semiconductors based Optical Power Splitter Device Design for underwater Application. <i>International Journal of Electrical and Computer Engineering</i> , 2018, 8, 3866.	0.7	4
17	Dynamic Characterization of III-Nitride-Based High-Speed Photodiodes. <i>IEEE Photonics Journal</i> , 2017, 9, 1-7.	2.0	20
18	Facile growth of density- and diameter-controlled GaN nanobridges and their photodetector application. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11879-11884.	5.5	18

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19	The effect of waveguide parameters on gan based S-bend Y-junction optical power divider. , 2017, , .		0
20	Design of a four-branch optical power splitter using III-nitride semiconductors. , 2017, , .		1
21	Growth of <i>c</i> -Axis-Oriented BiCuSeO Thin Films Directly on Si Wafers. Journal of the American Ceramic Society, 2016, 99, 3367-3370.	3.8	12
22	Synthesis of In _{0.1} Ga _{0.9} N/GaN structures grown by MOCVD and MBE for high speed optoelectronics. MRS Advances, 2016, 1, 1735-1742.	0.9	7
23	Design of GaN-Based Low-Loss Y-Branch Power Splitter. Makara Journal of Technology, 2015, 18, 101.	0.3	6
24	Design of GaN-Based Low-Loss Y-Branch Power Splitter. Makara Journal of Technology, 2015, 18, 101.	0.3	2
25	Optical Properties of Gallium Nitride Heterostructures Grown on Silicon for Waveguiding Application. Advanced Materials Research, 2014, 980, 41-45.	0.3	1
26	Optical waveguiding properties into porous gallium nitride structures investigated by prism coupling technique. Applied Physics Letters, 2014, 105, .	3.3	9
27	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
28	Guided-wave electro-optic characterization of BaTiO ₃ thin films using the prism coupling technique. Optics Letters, 2013, 38, 1037.	3.3	6
29	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
30	Gallium-nitride-based plasmonic multilayer operating at 155 nm. Optics Letters, 2012, 37, 3039.	3.3	4
31	Investigation of structural, morphological and optical properties of GaN/AlGaN heterostructures on Si. , 2012, , .		1
32	Prospective for Gallium Nitride-Based Optical Waveguide Modulators. IEICE Transactions on Electronics, 2012, E95.C, 1363-1368.	0.6	12
33	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
34	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
35	Optical waveguide loss minimized into gallium nitride based structures grown by metal organic vapor phase epitaxy. Applied Physics Letters, 2011, 98, .	3.3	40
36	Fast Humidity Sensing and Switching of LiNbO ₃ Films on Silicon. Molecular Crystals and Liquid Crystals, 2011, 535, 196-203.	0.9	2

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37	Fabrication and investigation of 1D and 2D structures in LiNbO ₃ thin films by pulsed laser ablation. <i>Optical Materials</i> , 2010, 32, 1427-1434.	3.6	22
38	Novel approach for planar Bragg grating characterization using prism coupling. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
39	Analysis of Frequency Response of IDT/ZnO/Si SAW Filter Using the Coupling of Modes Model. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 2011-2015.	3.0	8
40	Measurement Methods for the d_{33} Coefficient of PZT Thin Films on Silicon Substrates: A Comparison of Double-Beam Laser Interferometer (DBI) and Single-Beam Laser Vibrometer (LDV) Techniques. <i>Ferroelectrics</i> , 2007, 351, 122-130.	0.6	8
41	Micro structuring of LiNbO ₃ by using nanosecond pulsed laser ablation. <i>Applied Surface Science</i> , 2007, 254, 1327-1331.	6.1	29
42	Laser Doppler vibrometry for evaluating the piezoelectric coefficient d_{33} on thin film. <i>Review of Scientific Instruments</i> , 2006, 77, 093905.	1.3	74
43	The effect of LaNiO ₃ bottom electrode thickness on ferroelectric and dielectric properties of (100) oriented PbZr _{0.53} Ti _{0.47} O ₃ films. <i>Journal of Crystal Growth</i> , 2005, 284, 184-189.	1.5	18
44	High-frequency surface acoustic wave devices based on LiNbO ₃ /diamond multilayered structure. <i>Applied Physics Letters</i> , 2005, 87, 213503.	3.3	23
45	m-line spectroscopy for optical analysis of thick LiNbO ₃ layers grown on sapphire substrates by radio-frequency multistep sputtering. <i>Journal of Applied Physics</i> , 2003, 93, 1165-1168.	2.5	25
46	Correlation between threading dislocation density and the refractive index of AlN grown by molecular-beam epitaxy on Si(111). <i>Applied Physics Letters</i> , 2003, 82, 1386-1388.	3.3	24
47	Growth Process and Surface Acoustic Wave Characteristics of LiNbO ₃ /Diamond/Silicon Multilayered Structures. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 572-574.	1.5	13
48	Thick LiNbO ₃ layers on diamond-coated silicon for surface acoustic wave filters. <i>Applied Physics Letters</i> , 2002, 81, 1329-1331.	3.3	26
49	Improvement of LiNbO ₃ Surface Roughness by Using a Multi-Step Process: Relationship Between Optical and AFM Analysis. <i>Integrated Ferroelectrics</i> , 2002, 49, 211-219.	0.7	1
50	Mechanical properties of diamond films: A comparative study of polycrystalline and smooth fine-grained diamonds by Brillouin light scattering. <i>Journal of Applied Physics</i> , 2001, 90, 3771-3779.	2.5	68
51	LiNbO ₃ thick films grown on sapphire by using a multistep sputtering process. <i>Journal of Applied Physics</i> , 2001, 90, 5274-5277.	2.5	49
52	Electro-optic characterization of (Pb,La)TiO ₃ thin films using prism-coupling technique. <i>Journal of Applied Physics</i> , 1999, 85, 1780-1783.	2.5	27
53	Growth and optical characterization of aluminum nitride thin films deposited on silicon by radio-frequency sputtering. <i>Applied Physics Letters</i> , 1999, 74, 1209-1211.	3.3	26
54	Interface properties of Al _x Ga _{1-x} N/AlN heterostructures from optical waveguiding information. <i>Applied Physics Letters</i> , 1999, 75, 3324-3326.	3.3	21

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55	Optical waveguiding in epitaxial PbTiO ₃ thin films. Applied Optics, 1998, 37, 4245.	2.1	23