Apurba Laha

List of Publications by Year in descending order

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1040056 1058476 32 234 9 14 citations h-index g-index papers 32 32 32 248 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Growth of uniform Mg-doped p-AlGaN nanowires using plasma-assisted molecular beam epitaxy technique for UV-A emitters. Nanotechnology, 2022, 33, 384001.	2.6	3
2	Carrier-Induced Defect Saturation in Green InGaN LEDs: A Potential Phenomenon to Enhance Efficiency at Higher Wavelength Regime. ACS Photonics, 2021, 8, 926-932.	6.6	13
3	Impact of Ex-Situ Heating on Carrier Kinetics in GaN/InGaN Based Green LEDs. ECS Journal of Solid State Science and Technology, 2021, 10, 035004.	1.8	3
4	Epi-Gdâ,,Oâ,f-MOSHEMT: A Potential Solution Toward Leveraging the Application of AlGaN/GaN/Si HEMT With Improved <i>I</i> _{ON} / <i>I</i> _{OFF} Operating at 473 K. IEEE Transactions on Electron Devices, 2021, 68, 2653-2660.	3.0	6
5	A Highly Sensitive and Robust GaN Ultraviolet Photodetector Fabricated on 150-mm Si (111) Wafer. IEEE Transactions on Electron Devices, 2021, 68, 2796-2803.	3.0	11
6	Unraveling the Quality of the Active Region in GaN/InGaN Green LEDs Using Capacitance-Voltage Measurements. , 2021 , , .		1
7	Defect Saturation with Carriers in GaN/InGaN LEDs: A potential phenomenon to confront the green gap. , 2021, , .		0
8	Decomposition Resilience of GaN Nanowires, Crested and Surficially Passivated by AlN. Crystal Growth and Design, 2020, 20, 4867-4874.	3.0	9
9	Role of defect saturation in improving optical response from InGaN nanowires in higher wavelength regime. Nanotechnology, 2020, 31, 495705.	2.6	11
10	Ultra high-sensitive, prompt response and recovering Pt/(Pt+SiO 2) cermet layer/GaN-based hydrogen sensor for life-saving applications. Nanotechnology, 2020, 31, 46LT02.	2.6	1
11	Effect of Thermal Management on the Performance of VCSELs. IEEE Transactions on Electron Devices, 2020, 67, 3736-3739.	3.0	9
12	Epi-Gd2O3/AlGaN/GaN MOS HEMT on 150 mm Si wafer: A fully epitaxial system for high power application. Applied Physics Letters, 2019, 115, 063502.	3.3	14
13	Efficient ab initio plus analytic calculation of the effect of GaN layer tensile strain in AlGaN/GaN heterostructures. Japanese Journal of Applied Physics, 2019, 58, 094001.	1.5	6
14	Critical analysis of micro-thermogravimetry of CuSO _{4Â-} 5H ₂ 0 crystals using heatable microcantilevers. Journal of Micromechanics and Microengineering, 2019, 29, 105009.	2.6	2
15	Study of surface over-layer contribution to Dislocation Assisted Tunneling current: Strategy to improve Pt/n +–GaN Schottky characteristics. Materials Research Express, 2019, 6, 105917.	1.6	0
16	Self-Assembled Sn Nanocrystals as the Floating Gate of Nonvolatile Flash Memory. ACS Applied Electronic Materials, 2019, 1, 1852-1858.	4.3	8
17	Triaxially uniform high-quality Al _{<i>x</i>} Ga _(1â^'<i>x</i>) N (<i>x</i> â^1/4 50%) nanowires on template free sapphire substrate. Nanotechnology, 2019, 30, 065603.	2.6	6
18	Engineering V-shaped pits in InGaN layers grown by PA-MBE toward optimizing the active region of green LEDs. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 616.	2.1	10

#	Article	IF	CITATIONS
19	Excimer laser annealing: An alternative route and its optimisation to effectively activate Si dopants in AlN films grown by plasma assisted molecular beam epitaxy. Materials Research Bulletin, 2018, 97, 300-305.	5.2	9
20	Effect of nitridation time on structural, optical and electrical properties of InN films grown on c-sapphire substrates by PAMBE. Journal of Materials Science: Materials in Electronics, 2018, 29, 3927-3934.	2.2	0
21	Wafer-scale all-epitaxial GeSn-on-insulator on Si(1 1 1) by molecular beam epitaxy. Journal Physics D: Applied Physics, 2018, 51, 32LT01.	2.8	2
22	Superconductivity in epitaxial InN thin films with large critical fields. AIP Conference Proceedings, 2018, , .	0.4	1
23	Molecular beam epitaxy and defect structure of Ge (111)/epi-Gd2O3 (111)/Si (111) heterostructures. Journal of Applied Physics, 2018, 124, .	2.5	9
24	Tuning the effective band gap and finding the optimal growth condition of InN thin films on GaN/sapphire substrates by plasma assisted molecular beam epitaxy technique. Superlattices and Microstructures, 2017, 101, 405-414.	3.1	8
25	On the correlation of growth, structural and electrical properties of epitaxial Ge grown on Si by solid source molecular beam epitaxy. Current Applied Physics, 2017, 17, 327-332.	2.4	4
26	Epitaxial Gd ₂ O ₃ on GaN and AlGaN: a potential candidate for metal oxide semiconductor based transistors on Si for high power application. Journal Physics D: Applied Physics, 2017, 50, 475102.	2.8	4
27	Piezoresponse force microscopy (PFM) characterization of GaN nanowires grown by Plasma assisted Molecular beam epitaxy (PA-MBE). , 2016, , .		3
28	Improved Ohmic contact to GaN and AlGaN/GaN twoâ€dimensional electron gas using trap assisted tunneling by B implantation. Physica Status Solidi (B): Basic Research, 2015, 252, 989-995.	1.5	10
29	Impact of GaN buffer layer thickness on structural and optical properties of AlGaN/GaN based high electron mobility transistor structure grown on $\mathrm{Si}(111)$ substrate by plasma assisted molecular beam epitaxy technique. , 2015, , .		2
30	Effective control on flat band voltage of epitaxial lanthanide oxide based metal oxide semiconductor capacitors by interfacial carbon. Applied Physics Letters, 2013, 102, .	3.3	7
31	Epitaxial Gd2O3 on strained Si1â^'xGex layers for next generation complementary metal oxide semiconductor device application. Applied Physics Letters, 2013, 103, 153501.	3.3	8
32	Impact of Si substrate orientations on electrical properties of crystalline Gd2O3 thin films for high-K application. Applied Physics Letters, 2006, 89, 143514.	3.3	54