

Debabrata Das

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Fabrication and Characterization of High-Quality Epitaxial Nanocolumnar Niobium Films with Abrupt Interfaces on YSZ(001). <i>Journal of Physical Chemistry C</i> , 2022, 126, 2098-2107.	3.1	6
2	Excitation dependent and time resolved photoluminescence of $\hat{\text{I}}^2\text{-Ga}_2\text{O}_3$, $\hat{\text{I}}^2\text{-(Ga}_{0.955}\text{Al}_{0.045})_2\text{O}_3$ and $\hat{\text{I}}^2\text{-(Ga}_{0.91}\text{In}_{0.09})_2\text{O}_3$ epitaxial layers grown by pulsed laser deposition. <i>Journal of Luminescence</i> , 2022, 248, 118960.	3.1	8
3	Controlled Phase Stabilization Enabled Tunable Optical Properties of Nanocrystalline $\text{GeO}_{2\text{₂}$ Films. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3115-3124.	4.3	9
4	Microstructure, chemical inhomogeneity, and electronic properties of tin-incorporated Ga_2O_3 compounds. <i>Journal of Materials Science</i> , 2022, 57, 11170-11188.	3.7	5
5	InGaN/GaN Quantum Dot Light-Emitting Diodes on Silicon with Coalesced GaN Nanowire Buffer Layer. <i>ACS Applied Nano Materials</i> , 2021, 4, 1825-1830.	5.0	9
6	Size- and Phase-Controlled Nanometer-Thick $\hat{\text{I}}^2\text{-Ga}_{2\text{₂}\text{O}_{3\text{₃}$ Films with Green Photoluminescence for Optoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 3331-3338.	5.0	20
7	Realization of high-quality RF sputtered ZnMgO ($x=15\%$) thin films by post-growth annealing treatment. <i>Superlattices and Microstructures</i> , 2021, 156, 106977.	3.1	5
8	Interfacial Phase Modulation-Induced Structural Distortion, Band Gap Reduction, and Nonlinear Optical Activity in Tin-Incorporated $\text{Ga}_{2\text{₂}\text{O}_{3\text{₃}$. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20468-20481.	3.1	18
9	InGaN/GaN Quantum Dots on Silicon With Coalesced Nanowire Buffer Layers: A Potential Technology for Visible Silicon Photonics. <i>IEEE Nanotechnology Magazine</i> , 2020, 19, 571-574.	2.0	8
10	Room-temperature ultraviolet-ozone annealing of ZnO and ZnMgO nanorods to attain enhanced optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 18777-18790.	2.2	4
11	Improving optical properties and controlling defect-bound states in ZnMgO thin films through ultraviolet-ozone annealing. <i>Thin Solid Films</i> , 2020, 708, 138112.	1.8	7
12	Investigations on heterogeneously coupled Submonolayer (SML) on Stranski-Krastanov (SK) quantum dot heterostructures with higher (0.1ML/sec) and lower (0.05ML/sec) growth rates. , 2020, , .		0
13	Ultrasensitive zinc magnesium oxide nanorods based micro-sensor platform for UV detection and light trapping. <i>Sensors and Actuators A: Physical</i> , 2018, 278, 127-139.	4.1	13
14	Enhancement in optical characteristics of c-axis-oriented radio frequency-sputtered ZnO thin films through growth ambient and annealing temperature optimization. <i>Materials Science in Semiconductor Processing</i> , 2017, 66, 1-8.	4.0	33