

Saroj K Patra

List of Publications by Year in descending order

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23
papers

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citations

1162889

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docs citations

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times ranked

136
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale simulations of the electronic structure of III-nitride quantum wells with varied indium content: Connecting atomistic and continuum-based models. Journal of Applied Physics, 2021, 129, .	1.1	12
2	Tunable Semiconductor Slotted Lasers for Near-Infrared Optical Coherence Tomography. IEEE Photonics Technology Letters, 2021, 33, 896-899.	1.3	1
3	Connecting atomistic and continuum models for (In,Ga)N quantum wells: From tight-binding energy landscapes to electronic structure and carrier transport. , 2021, , .		0
4	Indium gallium nitride quantum dots: consequence of random alloy fluctuations for polarization entangled photon emission. Materials for Quantum Technology, 2021, 1, 015001.	1.2	7
5	Exploring the Potential of <i>c</i> -Plane Indium Gallium Nitride Quantum Dots for Twin-Photon Emission. Nano Letters, 2020, 20, 234-241.	4.5	11
6	Multi-scale modeling of electronic, optical, and transport properties of III-N alloys and heterostructures. , 2020, , .		1
7	Low-cost semiconductor swept source laser for near-infrared Optical Coherence Tomography. , 2020, , .		1
8	Electronic and optical properties of polar, semi- and non-polar InGaN QDs: the role of second-order piezoelectric effects. Japanese Journal of Applied Physics, 2019, 58, SCCB38.	0.8	3
9	Insight into the impact of atomic- and nano-scale indium distributions on the optical properties of InGaN/GaN quantum well structures grown on m-plane freestanding GaN substrates. Journal of Applied Physics, 2019, 125, 225704.	1.1	5
10	Impact of alloy fluctuations and Coulomb effects on the electronic and optical properties of c-plane GaN/AlGaN quantum wells. Scientific Reports, 2019, 9, 18862.	1.6	11
11	Theory of second-order piezoelectric fields in III-N nanostructures. , 2018, , .		0
12	Theoretical and experimental analysis of radiative recombination lifetimes in nonpolar InGaN/GaN quantum dots. Physica Status Solidi (B): Basic Research, 2017, 254, 1600675.	0.7	16
13	Non-polar In _x Ga _{1-x} N/GaN quantum dots: impact of dot size and shape anisotropies on excitonic and biexcitonic properties. Journal Physics D: Applied Physics, 2017, 50, 025108.	1.3	10
14	Deterministic optical polarisation in nitride quantum dots at thermoelectrically cooled temperatures. Scientific Reports, 2017, 7, 12067.	1.6	11
15	Impact of second-order piezoelectricity on electronic and optical properties of c-plane In _x Ga _{1-x} N quantum dots: Consequences for long wavelength emitters. Applied Physics Letters, 2017, 111, 103103.	1.5	3
16	Direct generation of linearly polarized single photons with a deterministic axis in quantum dots. Nanophotonics, 2017, 6, 1175-1183.	2.9	11
17	Electrostatic built-in fields in wurtzite III-N nanostructures: Impact of growth plane on second-order piezoelectricity. Physical Review B, 2017, 96, .	1.1	7
18	Top- and Bottom-Patterned GaN/InGaN Violet Light Emitting Diode Structure for Enhanced Light Extraction. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
19	Theoretical analysis of blue to white down conversion for light-emitting diode light with yttrium aluminum garnet phosphor. Journal of Photonics for Energy, 2014, 4, 043596.	0.8	3
20	Investigation on bandgap, diffraction, interference, and refraction effects of photonic crystal structure in GaN/InGaN LEDs for light extraction. Applied Optics, 2014, 53, 3890.	0.9	9
21	Growth and Fabrication of GaN/InGaN Violet Light Emitting Diode on Patterned Sapphire Substrate. Journal of Applied Mathematics and Physics, 2014, 02, 1113-1117.	0.2	4
22	Design and Analysis of "Chess Board" Like Photonic Crystal Structure for Improved Light Extraction in GaN/InGaN LEDs. Journal of Display Technology, 2013, 9, 339-345.	1.3	9
23	Design of "Chess-board" like photonic crystal structure for enhancement of LED light extraction. , 2012, , .		1