

Brandon Mitchell

List of Publications by Year in descending order

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28
papers

453
citations

758635

12
h-index

713013

21
g-index

30
all docs

30
docs citations

30
times ranked

262
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspective: Toward efficient GaN-based red light emitting diodes using europium doping. Journal of Applied Physics, 2018, 123, .	1.1	100
2	The role of donor-acceptor pairs in the excitation of Eu-ions in GaN:Eu epitaxial layers. Journal of Applied Physics, 2014, 115, .	1.1	45
3	Excitation of Eu ³⁺ in gallium nitride epitaxial layers: Majority versus trap defect center. Applied Physics Letters, 2011, 98, 011102.	1.5	44
4	Utilization of native oxygen in Eu(RE)-doped GaN for enabling device compatibility in optoelectronic applications. Scientific Reports, 2016, 6, 18808.	1.6	29
5	Enhanced photo/electroluminescence properties of Eu-doped GaN through optimization of the growth temperature and Eu related defect environment. APL Materials, 2016, 4, 056103.	2.2	22
6	Charge state of vacancy defects in Eu-doped GaN. Physical Review B, 2017, 96, .	1.1	20
7	High-Power Eu-Doped GaN Red LED Based on a Multilayer Structure Grown at Lower Temperatures by Organometallic Vapor Phase Epitaxy. MRS Advances, 2017, 2, 159-164.	0.5	18
8	Excitation Efficiency and Limitations of the Luminescence of Eu^{3+} Ions in GaN. Physical Review B, 2014, 89, 045411.	1.5	17
9	Carrier dynamics and kinetics of Eu^{3+} ions in GaN. Physical Review B, 2014, 89, 045411.	1.5	17
10	Electron-beam-induced migration of hydrogen in Mg-doped GaN using Eu as a probe. Physical Review B, 2013, 88, .	1.1	15
11	Substantial enhancement of red emission intensity by embedding Eu-doped GaN into a microcavity. AIP Advances, 2016, 6, .	0.6	15
12	Color-Tunability in GaN LEDs Based on Atomic Emission Manipulation under Current Injection. ACS Photonics, 2019, 6, 1153-1161.	3.2	15
13	Enhanced magnetization in erbium doped GaN thin films due to strain induced electric fields. Applied Physics Letters, 2011, 99, 122506.	1.5	12
14	Vibrationally induced center reconfiguration in co-doped GaN:Eu, Mg epitaxial layers: Local hydrogen migration vs. activation of non-radiative channels. Applied Physics Letters, 2013, 103, .	1.5	12
15	Synthesis and characterization of a liquid Eu precursor (EuC ₂ H ₂) allowing for valence control of Eu ions doped into GaN by organometallic vapor phase epitaxy. Materials Chemistry and Physics, 2017, 193, 140-146.	2.0	11
16	Carrier dynamics and excitation of Eu^{3+} ions in GaN. Physical Review B, 2020, 101, .	1.1	11
17	Emission enhancement and its mechanism of Eu-doped GaN by strain engineering. Optical Materials Express, 2017, 7, 1381.	1.6	10
18	Re-Excitation of Trivalent Europium Ions Doped into Gallium Nitride Revealed through Photoluminescence under Pulsed Laser Excitation. ACS Photonics, 2018, 5, 875-880.	3.2	10

#	ARTICLE	IF	CITATIONS
19	Direct detection of rare earth ion distributions in gallium nitride and its influence on growth morphology. Journal of Applied Physics, 2020, 127, 013102.	1.1	6
20	Temporally modulated energy shuffling in highly interconnected nanosystems. Nanophotonics, 2020, 10, 851-876.	2.9	5
21	A Fan-tastic Quantitative Exploration of Ohm's Law. Physics Teacher, 2018, 56, 75-78.	0.2	4
22	Quantitative study of energy-transfer mechanism in Eu,O-codoped GaN by time-resolved photoluminescence spectroscopy. Journal of Applied Physics, 2018, 123, 161419.	1.1	4
23	Growth of Eu-doped GaN and its magneto-optical properties. , 2016, , 259-280.		3
24	Picosecond time-resolved dynamics of energy transfer between GaN and the various excited states of E_u ions. Physical Review B, 2019, 100, .	1.1	3
25	Detection of In segregation in InGaN by using Eu as a probe. Journal of Crystal Growth, 2017, 468, 831-834.	0.7	2
26	Measuring the practical particle-in-a-box: orthorhombic perovskite nanocrystals. European Journal of Physics, 2018, 39, 055501.	0.3	2
27	Modeling defect mediated color-tunability in LEDs with Eu-doped GaN-based active layers. Journal of Applied Physics, 2022, 131, 045701.	1.1	2
28	On the connection between bound and scattering states of finite square-well potentials: a unified approach. European Journal of Physics, 2021, 42, 025405.	0.3	0