

Jochen Bruckbauer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

37
papers

454
citations

12
h-index

20
g-index

37
ext. papers

506
ext. citations

4.6
avg, IF

3.19
L-index

#	Paper	IF	Citations
37	Crystalline grain engineered CsPbIBr ₂ films for indoor photovoltaics. <i>Applied Surface Science</i> , 2022 , 592, 152865	6.7	1
36	Influence of micro-patterning of the growth template on defect reduction and optical properties of non-polar (112̄0) GaN. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 025107	3	0
35	A systematic comparison of polar and semipolar Si-doped AlGa _N alloys with high AlN content. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 035302	3	5
34	Structural and luminescence imaging and characterisation of semiconductors in the scanning electron microscope. <i>Semiconductor Science and Technology</i> , 2020 , 35, 054001	1.8	3
33	A poly(urethane)-encapsulated benzo[2,3-d:6,7-d']diimidazole organic down-converter for green hybrid LEDs. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1006-1012	7.8	5
32	Luminescence behavior of semipolar (101̄1) InGa _N /Ga _N Bow-tie structures on patterned Si substrates. <i>Journal of Applied Physics</i> , 2020 , 127, 035705	2.5	0
31	Influence of an InGa _N superlattice pre-layer on the performance of semi-polar (11-22) green LEDs grown on silicon. <i>Scientific Reports</i> , 2020 , 10, 12650	4.9	0
30	Advances in electron channelling contrast imaging and electron backscatter diffraction for imaging and analysis of structural defects in the scanning electron microscope. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 891, 012023	0.4	
29	Implementing fluorescent MOFs as down-converting layers in hybrid light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2394-2400	7.1	15
28	Determining Ga _N Nanowire Polarity and its Influence on Light Emission in the Scanning Electron Microscope. <i>Nano Letters</i> , 2019 , 19, 3863-3870	11.5	11
27	Scanning electron microscopy as a flexible technique for investigating the properties of UV-emitting nitride semiconductor thin films. <i>Photonics Research</i> , 2019 , 7, B73	6	6
26	Monolithic multiple colour emission from InGa _N grown on patterned non-polar Ga _N . <i>Scientific Reports</i> , 2019 , 9, 986	4.9	3
25	Microscopy of defects in semiconductors 2019 , 345-416		3
24	You Do What in Your Microprobe?! The EPMA as a Multimode Platform for Nitride Semiconductor Characterization. <i>Microscopy and Microanalysis</i> , 2018 , 24, 2026-2027	0.5	1
23	Cathodoluminescence studies of chevron features in semi-polar (112̄2) InGa _N /Ga _N multiple quantum well structures. <i>Journal of Applied Physics</i> , 2018 , 123, 174502	2.5	6
22	Optical investigation of semi-polar (11-22) Al _x Ga _{1-x} N with high Al composition. <i>Applied Physics Letters</i> , 2017 , 110, 091102	3.4	5
21	Spatially-resolved optical and structural properties of semi-polar [Formula: see text] Al Ga N with x up to 0.56. <i>Scientific Reports</i> , 2017 , 7, 10804	4.9	10

20	Electron channelling contrast imaging for III-nitride thin film structures. <i>Materials Science in Semiconductor Processing</i> , 2016 , 47, 44-50	4.3	19
19	Colour tuning in white hybrid inorganic/organic light-emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 405103	3	13
18	Cool to warm white light emission from hybrid inorganic/organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11499-11507	7.1	22
17	Reprint of: Electron channelling contrast imaging for III-nitride thin film structures. <i>Materials Science in Semiconductor Processing</i> , 2016 , 55, 19-25	4.3	
16	Self-assembly of ordered wurtzite/rock salt heterostructures—a new view on phase separation in Mg _x Zn _{1-x} O. <i>Journal of Applied Physics</i> , 2015 , 118, 045706	2.5	2
15	Light-Emitting Diodes: An Organic Down-Converting Material for White-Light Emission from Hybrid LEDs (Adv. Mater. 43/2014). <i>Advanced Materials</i> , 2014 , 26, 7415-7415	24	3
14	Cathodoluminescence hyperspectral imaging of trench-like defects in InGaN/GaN quantum well structures. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 135107	3	9
13	An organic down-converting material for white-light emission from hybrid LEDs. <i>Advanced Materials</i> , 2014 , 26, 7290-4	24	95
12	Coincident electron channeling and cathodoluminescence studies of threading dislocations in GaN. <i>Microscopy and Microanalysis</i> , 2014 , 20, 55-60	0.5	23
11	Cathodoluminescence Hyperspectral Imaging of Nitride Semiconductors: Introducing New Variables. <i>Microscopy and Microanalysis</i> , 2014 , 20, 906-907	0.5	
10	Influence of substrate miscut angle on surface morphology and luminescence properties of AlGaN. <i>Applied Physics Letters</i> , 2014 , 104, 092114	3.4	20
9	Influence of stress on optical transitions in GaN nanorods containing a single InGaN/GaN quantum disk. <i>Journal of Applied Physics</i> , 2014 , 116, 174305	2.5	16
8	Electron Channeling Contrast Imaging of Defects in III-Nitride Semiconductors. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1024-1025	0.5	
7	Probing light emission from quantum wells within a single nanorod. <i>Nanotechnology</i> , 2013 , 24, 365704	3.4	10
6	Linear oligofluorene-BODIPY structures for fluorescence applications. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2249	7.1	18
5	Electron channeling contrast imaging studies of nonpolar nitrides using a scanning electron microscope. <i>Applied Physics Letters</i> , 2013 , 102, 142103	3.4	15
4	Optical Properties of GaN Nanorods Containing a Single or Multiple InGaN Quantum Wells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JE11	1.4	4
3	Applications of electron channeling contrast imaging for characterizing nitride semiconductor thin films. <i>Microscopy and Microanalysis</i> , 2012 , 18, 684-685	0.5	1

- 2 High-resolution cathodoluminescence hyperspectral imaging of nitride nanostructures. *Microscopy and Microanalysis*, **2012**, 18, 1212-9 0.5 42
- 1 High resolution cathodoluminescence hyperspectral imaging of surface features in InGaN/GaN multiple quantum well structures. *Applied Physics Letters*, **2011**, 98, 141908 3.4 68