Benoit Jack Eloi Guilhabert

List of Publications by Year
in descending order

41 papers	1,206 citations	430754 18 h-index	454834 30 g-index
42 all docs	42 docs citations	42 times ranked	1483 citing authors

#	Article	IF	Citations
1	Size-dependent efficiency and efficiency droop of blue InGaN micro-light emitting diodes. Applied Physics Letters, 2012, 101, .	1.5	222
2	High-Speed Visible Light Communications Using Individual Pixels in a Micro Light-Emitting Diode Array. IEEE Photonics Technology Letters, 2010, 22, 1346-1348.	1.3	210
3	Three-dimensional cross-nanowire networks recover full terahertz state. Science, 2020, 368, 510-513.	6.0	81
4	Individually Addressable AlInGaN Micro-LED Arrays With CMOS Control and Subnanosecond Output Pulses. IEEE Photonics Technology Letters, 2009, 21, 811-813.	1.3	73
5	Microâ€LED pumped polymer laser: A discussion of future pump sources for organic lasers. Laser and Photonics Reviews, 2013, 7, 1065-1078.	4.4	59
6	Integration of Semiconductor Nanowire Lasers with Polymeric Waveguide Devices on a Mechanically Flexible Substrate. Nano Letters, 2017, 17, 5990-5994.	4.5	55
7	Transfer Printing of Semiconductor Nanowires with Lasing Emission for Controllable Nanophotonic Device Fabrication. ACS Nano, 2016, 10, 3951-3958.	7.3	50
8	On-chip GaN-based dual-color micro-LED arrays and their application in visible light communication. Optics Express, 2019, 27, A1517.	1.7	44
9	Direct Laser Writing of Nanosized Oligofluorene Truxenes in UVâ€Transparent Photoresist Microstructures. Advanced Materials, 2009, 21, 781-785.	11.1	35
10	Vertically Emitting Indium Phosphide Nanowire Lasers. Nano Letters, 2018, 18, 3414-3420.	4.5	33
11	High accuracy transfer printing of single-mode membrane silicon photonic devices. Optics Express, 2018, 26, 16679.	1.7	33
12	Sub-Micron Lithography Using InGaN Micro-LEDs: Mask-Free Fabrication of LED Arrays. IEEE Photonics Technology Letters, 2012, 24, 2221-2224.	1.3	32
13	Hybrid GaN LED with capillary-bonded IIâ€“VI MQW color-converting membrane for visible light communications. Semiconductor Science and Technology, 2015, 30, 035012.	1.0	28
14	Flexible distributed-feedback colloidal quantum dot laser. Applied Physics Letters, 2011, 99, .	1.5	25
15	Gb/s Visible Light Communications With Colloidal Quantum Dot Color Converters. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-10.	1.9	25
16	An oligofluorene truxene based distributed feedback laser for biosensing applications. Biosensors and Bioelectronics, 2014, 54, 679-686.	5.3	24
17	Hybrid integration of an evanescently coupled AlGaAs microdisk resonator with a silicon waveguide by nanoscale-accuracy transfer printing. Optics Letters, 2018, 43, 4883.	1.7	21
18	Direct integration of micro-LEDs and a SPAD detector on a silicon CMOS chip for data communications and time-of-flight ranging. Optics Express, 2020, 28, 6909.	1.7	20

#	Article	IF	Citations
19	Transfer-printed micro-LED and polymer-based transceiver for visible light communications. Optics Express, 2018, 26, 31474.	1.7	19
20	Characterization, Selection, and Microassembly of Nanowire Laser Systems. Nano Letters, 2020, 20, 1862-1868.	4.5	17
21	Spatially dense integration of micron-scale devices from multiple materials on a single chip via transfer-printing. Optical Materials Express, 2021, 11, 3567.	1.6	17
22	Organic Semiconductor Laser Biosensor: Design and Performance Discussion. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 6-14.	1.9	16
23	Flexible Glass Hybridized Colloidal Quantum Dots for Gb/s Visible Light Communications. IEEE Photonics Journal, 2018, 10, 1-11.	1.0	12
24	Transfer printing of AlGaAs-on-SOI microdisk resonators for selective mode coupling and low-power nonlinear processes. Optics Letters, 2020, 45, 881.	1.7	11
25	All-optical tuning of a diamond micro-disk resonator on silicon. Photonics Research, 2020, 8, 318.	3.4	10
26	Dip-pen nanolithography of nanostructured oligofluorene truxenes in a photo-curable host matrix. Journal of Materials Chemistry, 2011, 21, 14209.	6.7	9
27	Transfer printing of semiconductor nanowire lasers. IET Optoelectronics, 2018, 12, 30-35.	1.8	7
28	Method for inferring the mechanical strain of GaN-on-Si epitaxial layers using optical profilometry and finite element analysis. Optical Materials Express, 2021, 11, 1643.	1.6	7
29	Direct LED writing of submicron resist patterns: Towards the fabrication of individually-addressable InGaN submicron stripe-shaped LED arrays. Nano Research, 2014, 7, 1849-1860.	5.8	6
30	Digital Illumination in Microscale Direct-Writing Photolithography: Challenges and Trade-Offs. , 2018, , .		2
31	Stripe Excitation of High Gain Media With Disorder. IEEE Journal of Quantum Electronics, 2012, 48, 1184-1192.	1.0	1
32	Microscale Automated Alignment and Spatial Tracking through Structured Illumination. , 2019, , .		1
33	Sub-micron-accuracy automated position and rotation registration method for transferred devices. , 2021, , .		1
34	Flexible distributed feedback colloidal quantum dot laser patterned by a submicron grating structure. , 2011, , .		0
35	Hybrid GaN/organic polymer photonic crystal LED. , 2011, , .		0
36	Towards 3D optical integration by micro-transfer printing of ultra-thin membrane devices. , 2018, , .		0

#	Article	IF	Citations
37	Micro-LED Waveguide for Fluorescence Applications. , 2019, , .		0
38	Nanowires: a New Horizon for Polarization-resolved Terahertz Time-domain Spectroscopy. , 2021, , .		0
39	Terahertz Full-polarization-state Detection by Nanowires. , 2021, , .		0
40	Transfer-printing enables multi-material assembly of integrated photonic systems. , 2021, , .		0
41	Suspension and transfer printing of ZnCdMgSe membranes from an InP substrate. Optical Materials Express, 2020, 10, 3328.	1.6	0