

# Nicolas Laurand

## List of Publications by Citations

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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.

48  
papers

771  
citations

17  
h-index

25  
g-index

67  
ext. papers

897  
ext. citations

3.6  
avg, IF

3.48  
L-index

#	Paper	IF	Citations
48	Colloidal quantum dot random laser. <i>Optics Express</i> , <b>2011</b> , 19, 2996-3003	3.3	92
47	Flexible blue-emitting encapsulated organic semiconductor DFB laser. <i>Optics Express</i> , <b>2010</b> , 18, 25535-45	3.3	53
46	Micro-LED pumped polymer laser: A discussion of future pump sources for organic lasers. <i>Laser and Photonics Reviews</i> , <b>2013</b> , 7, 1065-1078	8.3	47
45	Nanoscale-accuracy transfer printing of ultra-thin AlInGaN light-emitting diodes onto mechanically flexible substrates. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 253302	3.4	43
44	Heterogeneous integration of gallium nitride light-emitting diodes on diamond and silica by transfer printing. <i>Optics Express</i> , <b>2015</b> , 23, 9329-38	3.3	40
43	Laser action in a surface-structured free-standing membrane based on a $\pi$ -conjugated polymer-composite. <i>Organic Electronics</i> , <b>2011</b> , 12, 62-69	3.5	37
42	Colloidal quantum dot nanocomposites for visible wavelength conversion of modulated optical signals. <i>Optical Materials Express</i> , <b>2012</b> , 2, 250	2.6	33
41	An organic semiconductor laser based on star-shaped truxene-core oligomers for refractive index sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 185, 132-139	8.5	27
40	Hybrid GaN LED with capillary-bonded III-V MQW color-converting membrane for visible light communications. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 035012	1.8	24
39	Nanosecond colloidal quantum dot lasers for sensing. <i>Optics Express</i> , <b>2014</b> , 22, 7308-19	3.3	24
38	Wavelength-tunable colloidal quantum dot laser on ultra-thin flexible glass. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 141108	3.4	23
37	An oligofluorene truxene based distributed feedback laser for biosensing applications. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 679-86	11.8	22
36	Flexible distributed-feedback colloidal quantum dot laser. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 241103	3.4	21
35	RGB and white-emitting organic lasers on flexible glass. <i>Optics Express</i> , <b>2016</b> , 24, 2273-80	3.3	20
34	Ultralow-threshold up-converted lasing in oligofluorenes with tailored strong nonlinear absorption. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 12018-12025	7.1	18
33	Highly-photostable and mechanically flexible all-organic semiconductor lasers. <i>Optical Materials Express</i> , <b>2013</b> , 3, 584	2.6	18
32	Diode-pumped, mechanically-flexible polymer DFB laser encapsulated by glass membranes. <i>Optics Express</i> , <b>2014</b> , 22, 24160-8	3.3	17

31	Microlensed microchip VECSEL. <i>Optics Express</i> , <b>2007</b> , 15, 9341-6	3.3	17
30	Design of Linear and Star-Shaped Macromolecular Organic Semiconductors for Photonic Applications. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 1665-1674	24.3	16
29	Amplified spontaneous emission in free-standing membranes incorporating star-shaped monodisperse $\pi$ -conjugated truxene oligomers. <i>Journal of Optics (United Kingdom)</i> , <b>2010</b> , 12, 035503	1.7	15
28	Long-wavelength monolithic GaInNAs vertical-cavity optical amplifiers. <i>IEEE Journal of Quantum Electronics</i> , <b>2004</b> , 40, 878-883	2	14
27	Slow-light in a vertical-cavity semiconductor optical amplifier. <i>Optics Express</i> , <b>2006</b> , 14, 6858-63	3.3	13
26	Organic Semiconductor Laser Biosensor: Design and Performance Discussion. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2016</b> , 22, 6-14	3.8	11
25	Visible light communication using InGaN optical sources with AlInGaP nanomembrane down-converters. <i>Optics Express</i> , <b>2016</b> , 24, 10020-9	3.3	10
24	Micro-LED based optical wireless communications systems. <i>Semiconductors and Semimetals</i> , <b>2021</b> , 281-3216		10
23	Modification of emission wavelength in organic random lasers based on photonic glass. <i>Organic Electronics</i> , <b>2012</b> , 13, 1129-1135	3.5	9
22	Mechanically Flexible Organic Semiconductor Laser Array. <i>IEEE Photonics Journal</i> , <b>2012</b> , 4, 684-690	1.8	8
21	Thermal Management, Structure Design, and Integration Considerations for VECSELS <b>2010</b> , 73-117		8
20	Tunable single-mode fiber-VCSEL using an intracavity polymer microlens. <i>Optics Letters</i> , <b>2007</b> , 32, 2831-3		8
19	Power-Scaling of Diamond Microlensed Microchip Semiconductor Disk Lasers. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 152-154	2.2	7
18	GaInNAs(Sb) surface normal devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 85-92	1.6	7
17	CdS(x)Se(1-x)/ZnS semiconductor nanocrystal laser with sub 10kW/cm <sup>2</sup> threshold and 40nJ emission output at 600 nm. <i>Optics Express</i> , <b>2016</b> , 24, A146-53	3.3	7
16	Hybrid organic/GaN photonic crystal light-emitting diode. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 141122	3.4	6
15	Array-Format Microchip Semiconductor Disk Lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2008</b> , 44, 1096-1103		6
14	Flexible Glass Hybridized Colloidal Quantum Dots for Gb/s Visible Light Communications. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-11	1.8	5

13	Index and gain dynamics of optically pumped GaInNAs vertical-cavity semiconductor optical amplifiers. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 231115	3.4	5
12	Fiber-tunable dilute-nitride VCSEL. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 3895-3898		5
11	Planar micro- and nano-patterning of GaN light-emitting diodes: Guidelines and limitations. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 084503	2.5	4
10	Organic bioelectronics: general discussion. <i>Faraday Discussions</i> , <b>2014</b> , 174, 413-28	3.6	4
9	Hybrid organic semiconductor lasers for bio-molecular sensing. <i>Faraday Discussions</i> , <b>2014</b> , 174, 369-81	3.6	4
8	Pump-power-dependence of a CsPbBr <sub>3</sub> -in-Cs <sub>4</sub> PbBr <sub>6</sub> quantum dot color converter. <i>Optical Materials Express</i> , <b>2019</b> , 9, 3504	2.6	4
7	Organic polymer composite random laser operating underwater. <i>Optics Letters</i> , <b>2012</b> , 37, 5160-2	3	3
6	Performance comparison of GaInNAs vertical-cavity semiconductor optical amplifiers. <i>IEEE Journal of Quantum Electronics</i> , <b>2005</b> , 41, 642-649	2	3
5	Micro-LEDs for biomedical applications. <i>Semiconductors and Semimetals</i> , <b>2021</b> , 106, 57-94	0.6	2
4	Stripe Excitation of High Gain Media With Disorder. <i>IEEE Journal of Quantum Electronics</i> , <b>2012</b> , 48, 1184-1192		1
3	Photonics: general discussion. <i>Faraday Discussions</i> , <b>2014</b> , 174, 235-53	3.6	
2	Tunable doped-fibre vertical cavity surface emitting laser. <i>Electronics Letters</i> , <b>2009</b> , 45, 887	1.1	
1	Vertical Cavity Semiconductor Optical Amplifiers Based on Dilute Nitrides <b>2008</b> , 525-561		