Nicolas Laurand

List of Publications by Year in Descending Order

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	Micro-LED based optical wireless communications systems. *Semiconductors and Semimetals*, **2021**, 281-321	0.6	10
47	Micro-LEDs for biomedical applications. *Semiconductors and Semimetals*, **2021**, 106, 57-94	0.6	2
46	Design of Linear and Star-Shaped Macromolecular Organic Semiconductors for Photonic Applications. *Accounts of Chemical Research*, **2019**, 52, 1665-1674	24.3	16
45	Pump-power-dependence of a CsPbBr3-in-Cs4PbBr6 quantum dot color converter. *Optical Materials Express*, **2019**, 9, 3504	2.6	4
44	Flexible Glass Hybridized Colloidal Quantum Dots for Gb/s Visible Light Communications. *IEEE Photonics Journal*, **2018**, 10, 1-11	1.8	5
43	Visible light communication using InGaN optical sources with AlInGaP nanomembrane down-converters. *Optics Express*, **2016**, 24, 10020-9	3.3	10
42	RGB and white-emitting organic lasers on flexible glass. *Optics Express*, **2016**, 24, 2273-80	3.3	20
41	Organic Semiconductor Laser Biosensor: Design and Performance Discussion. *IEEE Journal of Selected Topics in Quantum Electronics*, **2016**, 22, 6-14	3.8	11
40	CdS(x)Se(1-x)/ZnS semiconductor nanocrystal laser with sub 10kW/cm(2) threshold and 40nJ emission output at 600 nm. *Optics Express*, **2016**, 24, A146-53	3.3	7
39	Hybrid GaN LED with capillary-bonded II$\overline{V}$I MQW color-converting membrane for visible light communications. *Semiconductor Science and Technology*, **2015**, 30, 035012	1.8	24
38	Heterogeneous integration of gallium nitride light-emitting diodes on diamond and silica by transfer printing. *Optics Express*, **2015**, 23, 9329-38	3.3	40
37	Ultralow-threshold up-converted lasing in oligofluorenes with tailored strong nonlinear absorption. *Journal of Materials Chemistry C*, **2015**, 3, 12018-12025	7.1	18
36	An oligofluorene truxene based distributed feedback laser for biosensing applications. *Biosensors and Bioelectronics*, **2014**, 54, 679-86	11.8	22
35	Nanosecond colloidal quantum dot lasers for sensing. *Optics Express*, **2014**, 22, 7308-19	3.3	24
34	Planar micro- and nano-patterning of GaN light-emitting diodes: Guidelines and limitations. *Journal of Applied Physics*, **2014**, 115, 084503	2.5	4
33	Organic bioelectronics: general discussion. *Faraday Discussions*, **2014**, 174, 413-28	3.6	4
32	Diode-pumped, mechanically-flexible polymer DFB laser encapsulated by glass membranes. *Optics Express*, **2014**, 22, 24160-8	3.3	17

31	Wavelength-tunable colloidal quantum dot laser on ultra-thin flexible glass. *Applied Physics Letters*, **2014**, 104, 141108	3.4	23
30	Photonics: general discussion. *Faraday Discussions*, **2014**, 174, 235-53	3.6	
29	Hybrid organic semiconductor lasers for bio-molecular sensing. *Faraday Discussions*, **2014**, 174, 369-81	3.6	4
28	An organic semiconductor laser based on star-shaped truxene-core oligomers for refractive index sensing. *Sensors and Actuators B: Chemical*, **2013**, 185, 132-139	8.5	27
27	Micro-LED pumped polymer laser: A discussion of future pump sources for organic lasers. *Laser and Photonics Reviews*, **2013**, 7, 1065-1078	8.3	47
26	Highly-photostable and mechanically flexible all-organic semiconductor lasers. *Optical Materials Express*, **2013**, 3, 584	2.6	18
25	Nanoscale-accuracy transfer printing of ultra-thin AlInGaN light-emitting diodes onto mechanically flexible substrates. *Applied Physics Letters*, **2013**, 103, 253302	3.4	43
24	Modification of emission wavelength in organic random lasers based on photonic glass. *Organic Electronics*, **2012**, 13, 1129-1135	3.5	9
23	Mechanically Flexible Organic Semiconductor Laser Array. *IEEE Photonics Journal*, **2012**, 4, 684-690	1.8	8
22	Stripe Excitation of High Gain Media With Disorder. *IEEE Journal of Quantum Electronics*, **2012**, 48, 1184-1192		1
21	Organic polymer composite random laser operating underwater. *Optics Letters*, **2012**, 37, 5160-2	3	3
20	Colloidal quantum dot nanocomposites for visible wavelength conversion of modulated optical signals. *Optical Materials Express*, **2012**, 2, 250	2.6	33
19	Hybrid organic/GaN photonic crystal light-emitting diode. *Applied Physics Letters*, **2012**, 101, 141122	3.4	6
18	Colloidal quantum dot random laser. *Optics Express*, **2011**, 19, 2996-3003	3.3	92
17	Laser action in a surface-structured free-standing membrane based on a π-conjugated polymer-composite. *Organic Electronics*, **2011**, 12, 62-69	3.5	37
16	Flexible distributed-feedback colloidal quantum dot laser. *Applied Physics Letters*, **2011**, 99, 241103	3.4	21
15	Amplified spontaneous emission in free-standing membranes incorporating star-shaped monodisperse π-conjugated truxene oligomers. *Journal of Optics (United Kingdom)*, **2010**, 12, 035503	1.7	15
14	Thermal Management, Structure Design, and Integration Considerations for VECSELs **2010**, 73-117		8

13	Flexible blue-emitting encapsulated organic semiconductor DFB laser. *Optics Express*, **2010**, 18, 25535-45	3.3	53
12	Tunable doped-fibre vertical cavity surface emitting laser. *Electronics Letters*, **2009**, 45, 887	1.1	
11	Power-Scaling of Diamond Microlensed Microchip Semiconductor Disk Lasers. *IEEE Photonics Technology Letters*, **2009**, 21, 152-154	2.2	7
10	Array-Format Microchip Semiconductor Disk Lasers. *IEEE Journal of Quantum Electronics*, **2008**, 44, 1096-1103	2	6
9	GaInNAs(Sb) surface normal devices. *Physica Status Solidi (A) Applications and Materials Science*, **2008**, 205, 85-92	1.6	7
8	Vertical Cavity Semiconductor Optical Amplifiers Based on Dilute Nitrides **2008**, 525-561		
7	Tunable single-mode fiber-VCSEL using an intracavity polymer microlens. *Optics Letters*, **2007**, 32, 2831-3	3	8
6	Microlensed microchip VECSEL. *Optics Express*, **2007**, 15, 9341-6	3.3	17
5	Slow-light in a vertical-cavity semiconductor optical amplifier. *Optics Express*, **2006**, 14, 6858-63	3.3	13
4	Performance comparison of GaInNAs vertical-cavity semiconductor optical amplifiers. *IEEE Journal of Quantum Electronics*, **2005**, 41, 642-649	2	3
3	Index and gain dynamics of optically pumped GaInNAs vertical-cavity semiconductor optical amplifiers. *Applied Physics Letters*, **2005**, 87, 231115	3.4	5
2	Fiber-tunable dilute-nitride VCSEL. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2005**, 2, 3895-3898		5
1	Long-wavelength monolithic GaInNAs vertical-cavity optical amplifiers. *IEEE Journal of Quantum Electronics*, **2004**, 40, 878-883	2	14