

Andreu Adan Llobera

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.

115 papers	2,039 citations	24 h-index	39 g-index
132 ext. papers	2,283 ext. citations	5.3 avg, IF	4.52 L-index

#	Paper	IF	Citations
115	An integrated optical interferometric nanodevice based on silicon technology for biosensor applications. <i>Nanotechnology</i> , 2003 , 14, 907-912	3.4	218
114	Integrated Mach-Zehnder interferometer based on ARROW structures for biosensor applications. <i>Sensors and Actuators B: Chemical</i> , 2003 , 92, 151-158	8.5	99
113	Multiple internal reflection poly(dimethylsiloxane) systems for optical sensing. <i>Lab on A Chip</i> , 2007 , 7, 1560-6	7.2	75
112	Poly(dimethylsiloxane) hollow Abbe prism with microlenses for detection based on absorption and refractive index shift. <i>Lab on A Chip</i> , 2004 , 4, 24-7	7.2	69
111	Hybrid electronic tongue based on optical and electrochemical microsensors for quality control of wine. <i>Analyst, The</i> , 2010 , 135, 1718-25	5	48
110	Design and analysis of silicon antiresonant reflecting optical waveguides for evanescent field sensor. <i>Journal of Lightwave Technology</i> , 2000 , 18, 966-972	4	48
109	An effective microfluidic based liquid-phase microextraction device (LPME) for extraction of non-steroidal anti-inflammatory drugs from biological and environmental samples. <i>Analytica Chimica Acta</i> , 2016 , 946, 56-63	6.6	47
108	SU-8 Optical Accelerometers. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 111-121	2.5	44
107	Photonic Lab-on-a-Chip: Integration of Optical Spectroscopy in Microfluidic Systems. <i>Analytical Chemistry</i> , 2016 , 88, 6630-7	7.8	44
106	Recent trends in capillary electrophoresis for complex samples analysis: A review. <i>Electrophoresis</i> , 2018 , 39, 111-125	3.6	41
105	Cell analysis using a multiple internal reflection photonic lab-on-a-chip. <i>Nature Protocols</i> , 2011 , 6, 1642-55	8.8	34
104	Light spectral filtering based on spatial adiabatic passage. <i>Light: Science and Applications</i> , 2013 , 2, e90-e96	10.7	33
103	BESOI-based integrated optical silicon accelerometer. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 355-364	2.5	32
102	Monolithic PDMS passband filters for fluorescence detection. <i>Lab on A Chip</i> , 2010 , 10, 1987-92	7.2	31
101	Optimization of poly(dimethylsiloxane) hollow prisms for optical sensing. <i>Lab on A Chip</i> , 2005 , 5, 506-11	7.2	30
100	Application of an e-tongue to the analysis of monovarietal and blends of white wines. <i>Sensors</i> , 2011 , 11, 4840-57	3.8	29
99	Integrated Photonic Nanofences: Combining Subwavelength Waveguides with an Enhanced Evanescent Field for Sensing Applications. <i>ACS Nano</i> , 2016 , 10, 778-85	16.7	28

98	Hybrid electronic tongue for the characterization and quantification of grape variety in red wines. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 695-702	8.5	28
97	Enhancement of the response of poly(dimethylsiloxane) hollow prisms through air mirrors for absorbance-based sensing. <i>Talanta</i> , 2008 , 75, 473-9	6.2	28
96	Optimized silicon antiresonant reflecting optical waveguides for sensing applications. <i>Journal of Lightwave Technology</i> , 2001 , 19, 75-83	4	28
95	Selective functionalisation of PDMS-based photonic lab on a chip for biosensing. <i>Analyst, The</i> , 2011 , 136, 3496-502	5	27
94	A simple and fast Double-Flow microfluidic device based liquid-phase microextraction (DF- μ LPME) for the determination of parabens in water samples. <i>Talanta</i> , 2017 , 165, 496-501	6.2	26
93	Adiabatic Passage of Light in CMOS-Compatible Silicon Oxide Integrated Rib Waveguides. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 536-538	2.2	26
92	Full-field photonic biosensors based on tunable bio-doped sol-gel glasses. <i>Lab on A Chip</i> , 2008 , 8, 1185-90	9.2	26
91	Biofunctionalized all-polymer photonic lab on a chip with integrated solid-state light emitter. <i>Light: Science and Applications</i> , 2015 , 4, e271-e271	16.7	24
90	Improved integrated waveguide absorbance optodes for ion-selective sensing. <i>Analytical Chemistry</i> , 2002 , 74, 3354-61	7.8	24
89	Optofluidic router based on tunable liquid-liquid mirrors. <i>Lab on A Chip</i> , 2014 , 14, 737-43	7.2	23
88	Biomimetic Architectures for the Impedimetric Discrimination of Influenza Virus Phenotypes. <i>Advanced Functional Materials</i> , 2013 , 23, 254-262	15.6	23
87	Microlenses with defined contour shapes. <i>Optics Express</i> , 2011 , 19, 18665-70	3.3	23
86	Cell screening using disposable photonic lab on a chip systems. <i>Analytical Chemistry</i> , 2010 , 82, 4246-51	7.8	23
85	Classification and characterization of different white grape juices by using a hybrid electronic tongue. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 9325-32	5.7	22
84	Monolithically integrated biophotonic lab-on-a-chip for cell culture and simultaneous pH monitoring. <i>Lab on A Chip</i> , 2013 , 13, 4239-47	7.2	22
83	PDMS based photonic lab-on-a-chip for the selective optical detection of heavy metal ions. <i>Analyst, The</i> , 2013 , 138, 839-44	5	21
82	Chalcogenide glass-based rib ARROW waveguide. <i>Journal of Non-Crystalline Solids</i> , 2003 , 326-327, 455-459	5.9	21
81	Dual photonic-electrochemical lab on a chip for online simultaneous absorbance and amperometric measurements. <i>Analytical Chemistry</i> , 2012 , 84, 3546-53	7.8	20

80	Algae-silica systems as functional hybrid materials. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9362-9369		20
79	Patterning High-Aspect-Ratio Sol-Gel Structures by Microtransfer Molding. <i>Chemistry of Materials</i> , 2008 , 20, 2662-2668	9.6	19
78	Integrated polymer optical accelerometer. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 1262-1264	2.2	19
77	Photonic Lab-on-a-Chip for Rapid Cytokine Detection. <i>ACS Sensors</i> , 2016 , 1, 979-986	9.2	18
76	Characterization of oxygen transfer in vertical microbubble columns for aerobic biotechnological processes. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 1809-19	4.9	18
75	Stress and aging minimization in photoplastic AFM probes. <i>Microelectronic Engineering</i> , 2009 , 86, 1226-1229	2.9	18
74	Vertical microbubble column-A photonic lab-on-chip for cultivation and online analysis of yeast cell cultures. <i>Biomicrofluidics</i> , 2012 , 6, 34106	3.2	18
73	Improved properties of epoxy nanocomposites for specific applications in the field of MEMS/NEMS. <i>Microelectronic Engineering</i> , 2007 , 84, 1075-1079	2.5	18
72	Polymer microoptoelectromechanical systems: Accelerometers and variable optical attenuators. <i>Sensors and Actuators A: Physical</i> , 2008 , 145-146, 147-153	3.9	18
71	Effect of hydrogen-related impurities on the thermal behavior of mechanical stress in silicon oxides suitable for integrated optics. <i>Journal of Applied Physics</i> , 2003 , 93, 5125-5130	2.5	18
70	A polymeric micro-optical system for the spatial monitoring in two-phase microfluidics. <i>Microfluidics and Nanofluidics</i> , 2012 , 12, 165-174	2.8	17
69	Poly(Dimethylsiloxane) Waveguide Cantilevers for Optomechanical Sensing. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 79-81	2.2	17
68	Optical biosensor based on hollow integrated waveguides. <i>Analytical Chemistry</i> , 2008 , 80, 3498-501	7.8	17
67	Cell-based microfluidic device for screening anti-proliferative activity of drugs in vascular smooth muscle cells. <i>Biomedical Microdevices</i> , 2012 , 14, 1129-40	3.7	16
66	A multiple path photonic lab on a chip for parallel protein concentration measurements. <i>Lab on A Chip</i> , 2015 , 15, 1133-9	7.2	14
65	Analysis of the structural integrity of SU-8-based optofluidic systems for small-molecule crystallization studies. <i>Analytical Chemistry</i> , 2013 , 85, 9678-85	7.8	14
64	Conductivity of SU-8 Thin Films through Atomic Force Microscopy Nano-Patterning. <i>Advanced Functional Materials</i> , 2012 , 22, 1482-1488	15.6	14
63	Disposable parallel poly(dimethylsiloxane) microbioreactor with integrated readout grid for germination screening of <i>Aspergillus ochraceus</i> . <i>Biomicrofluidics</i> , 2011 , 5, 14104	3.2	14

62	Self-validating lab-on-a-chip for monitoring enzyme-catalyzed biological reactions. <i>Sensors and Actuators B: Chemical</i> , 2016 , 237, 16-23	8.5	13
61	A polymeric micro-optical interface for flow monitoring in biomicrofluidics. <i>Biomicrofluidics</i> , 2010 , 4,	3.2	13
60	3-D moduable PDMS-based microlens system. <i>Optics Express</i> , 2008 , 16, 4918-29	3.3	13
59	Analysis of optochemical absorbance sensors based on bidimensional planar ARROW microoptics. <i>Sensors and Actuators B: Chemical</i> , 1999 , 60, 191-199	8.5	13
58	Microfluidic-controlled optical router for lab on a chip. <i>Lab on A Chip</i> , 2019 , 19, 2081-2088	7.2	12
57	Silane nanopatterns via gas-phase soft lithography. <i>Small</i> , 2008 , 4, 1076-9	11	12
56	Polymer microlenses with modified micromolding in capillaries (MIMIC) technology. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 2628-2630	2.2	12
55	Photonic lab-on-chip (PhLOC) for enzyme-catalyzed reactions in continuous flow. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 1277-1286	2.8	11
54	PDMS-based, magnetically actuated variable optical attenuators obtained by soft lithography and inkjet printing technologies. <i>Sensors and Actuators A: Physical</i> , 2014 , 215, 30-35	3.9	11
53	Microelectromechanical resonators based on an all polymer/carbon nanotube composite structural material. <i>Applied Physics Letters</i> , 2011 , 99, 044104	3.4	11
52	Polymeric MOEMS Variable Optical Attenuator. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 2425-2427	2.2	11
51	Single and Multiple Internal Reflection poly(dimethylsiloxane) absorbance-based biosensors. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 166-173	8.5	10
50	Electron beam lithography at 10 keV using an epoxy based high resolution negative resist. <i>Microelectronic Engineering</i> , 2007 , 84, 1096-1099	2.5	10
49	Broadcasting photonic lab on a chip concept through a low cost manufacturing approach. <i>Talanta</i> , 2017 , 170, 180-184	6.2	9
48	Hybrid Electronic Tongues Applied to the Quality Control of Wines. <i>Journal of Sensors</i> , 2014 , 2014, 1-10	2	9
47	One-step patterning of hybrid xerogel materials for the fabrication of disposable solid-state light emitters. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5029-37	9.5	9
46	Poly(dimethylsiloxane) photonic microbioreactors based on segmented waveguides for local absorbance measurement. <i>Electrophoresis</i> , 2011 , 32, 431-9	3.6	9
45	Characterization and passivation effects of an optical accelerometer based on antiresonant waveguides. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 233-235	2.2	9

44	Simple estimation of transition losses in bends of wide optical waveguides by a ray tracing method. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 825-827	2.2	9
43	DC Electroluminescence Efficiency of Silicon Rich Silicon Oxide Light Emitting Capacitors. <i>Journal of Lightwave Technology</i> , 2013 , 31, 2913-2918	4	8
42	Continuous Sensing Photonic Lab-on-a-Chip Platform Based on Cross-Linked Enzyme Crystals. <i>Analytical Chemistry</i> , 2016 , 88, 11919-11923	7.8	7
41	Oxide nanocrystal based nanocomposites for fabricating photoplastic AFM probes. <i>Nanoscale</i> , 2011 , 3, 4632-9	7.7	7
40	Hollow waveguide-based full-field absorbance biosensor. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 143-149	8.5	7
39	Development and integration of xerogel polymeric absorbance micro-filters into lab-on-chip systems. <i>Optics Express</i> , 2012 , 20, 23700-19	3.3	7
38	Technological aspects on the fabrication of silicon-based optical accelerometer with ARROW structures. <i>Sensors and Actuators A: Physical</i> , 2004 , 110, 395-400	3.9	7
37	Influence by Layer Structure on the Output EL of CMOS Compatible Silicon-Based Light Emitters. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 1971-1974	2.9	6
36	Mechanically tuneable microoptical structure based on PDMS. <i>Sensors and Actuators A: Physical</i> , 2010 , 162, 260-266	3.9	6
35	Fabrication of gas amplification microstructures with SU8 photosensitive epoxy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 525, 49-52	1.2	6
34	Silicon-based rectangular hollow integrated waveguides. <i>Optics Communications</i> , 2008 , 281, 1568-1575	2	5
33	McCLEC, a robust and stable enzymatic based microreactor platform. <i>Lab on A Chip</i> , 2015 , 15, 4083-9	7.2	4
32	Polymeric variable optical attenuators based on magnetic sensitive stimuli materials. <i>Journal of Micromechanics and Microengineering</i> , 2014 , 24, 125008	2	4
31	Mechanically tuneable microoptical structure based on PDMS. <i>Procedia Chemistry</i> , 2009 , 1, 560-563		4
30	Novel methods to pattern polymers for microfluidics. <i>Microelectronic Engineering</i> , 2008 , 85, 972-975	2.5	4
29	Optical properties of silicon rich silicon oxides obtained by PECVD. <i>Microelectronics Journal</i> , 2004 , 35, 65-67	1.8	4
28	Large-core single-mode waveguides with cross-sectional antiresonant confinement. <i>Journal of Lightwave Technology</i> , 2004 , 22, 1560-1565	4	4
27	Effect of wall tilt on the optical properties of integrated directional couplers. <i>Optics Letters</i> , 2002 , 27, 601-3	3	4

26	Evolution of the mechanical stress on PECVD silicon oxide films under thermal processing. <i>Journal of Materials Science Letters</i> , 2000 , 19, 1399-1401		4
25	The effect of absorption and coherent interference in the photoluminescence and electroluminescence spectra of SRO/SRN MIS capacitors. <i>Optics Express</i> , 2013 , 21, 10111-20	3.3	3
24	Integration of Carbon Nanotubes into Electrostatically Actuated all-Polymer PEDOT: PSS/PMMA MEMS. <i>Procedia Engineering</i> , 2011 , 25, 1665-1668		3
23	Fluorophore-doped xerogel antiresonant reflecting optical waveguides. <i>Optics Express</i> , 2011 , 19, 5026-39	3.3	3
22	Voltammetric sizing and shaping of a cylinder. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 611, 201-207	4.1	3
21	Characterization of optical accelerometers based on UV-sensitive polymers. <i>IEEE Sensors Journal</i> , 2006 , 6, 412-419	4	3
20	Integrated optical silicon IC compatible nanodevices for biosensing applications 2003 ,		3
19	Surface quad beam polymer optical accelerometer		3
18	Plug and measure - a chip-to-world interface for photonic lab-on-a-chip applications. <i>Lab on A Chip</i> , 2016 , 16, 3220-6	7.2	3
17	Magnetic Nanocrystals Modified Epoxy Photoresist for Microfabrication of AFM probes. <i>Procedia Chemistry</i> , 2009 , 1, 580-584		2
16	UV laser-induced high resolution cleaving of Si wafers for micro/nano devices and polymeric waveguide characterization. <i>Applied Surface Science</i> , 2011 , 257, 5424-5428	6.7	2
15	Influence of Silicon Binding Energy on Photoluminescence of Si-Implanted Silicon Dioxide. <i>ECS Transactions</i> , 2012 , 49, 307-314	1	2
14	Optofluidic systems enabling detection in real samples: A review.. <i>Analytica Chimica Acta</i> , 2022 , 1192, 339307	6.6	2
13	Absorbance-Based Integrated Optical Sensors 2005 , 1-44		2
12	Magnetically-actuated variable optical attenuators using ferrofluid-doped elastomer implemented by combination of soft lithography and inkjet printing technologies 2013 ,		1
11	Hybrid electronic tongues based on microsensors applied to wine quality control 2014 ,		1
10	Opto-thermal actuation in double layer polymer microcantilevers 2011 ,		1
9	Cantilever-based poly(dimethylsiloxane) Microoptoelectromechanical Systems 2009 ,		1

- 8 Hollow waveguides ray-tracing analysis **2008**, 1
- 7 Mechanical properties of PECVD silicon oxide films suitable for integrated optics applications **2000**, 1
- 6 Characterization of antiresonant reflecting optical waveguide devices by scanning near-field optical microscopy. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2000**, 17, 2243-8 1.8 1
- 5 Modular Optofluidic Systems (MOPS) **2016**, 1
- 4 UV-patternable polymers with selective spectral response. *Microelectronic Engineering*, **2012**, 98, 234-237.5 0
- 3 Ultrasensitive Photonic Microsystem Enabling Sub-micrometric Monitoring of Arterial Oscillations for Advanced Cardiovascular Studies. *Frontiers in Physiology*, **2019**, 10, 940 4.6
- 2 Development of 3D out-of-plane SU-8 microlenses using modified micromolding in capillaries (MIMIC) technology **2006**, 6185, 326
- 1 Absorbance-Based Integrated Optical Sensors **2005**, 1-44