

Victor Javier Cadarso Busto

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.

62

papers

899

citations

18

h-index

26

g-index

71

ext. papers

1,089

ext. citations

5.7

avg, IF

4.22

L-index

#	Paper	IF	Citations
62	A novel optical waveguide microcantilever sensor for the detection of nanomechanical forces. <i>Journal of Lightwave Technology</i> , 2006 , 24, 2132-2138	4	65
61	Integrated hollow microneedle-optofluidic biosensor for therapeutic drug monitoring in sub-nanoliter volumes. <i>Scientific Reports</i> , 2016 , 6, 29075	4.9	55
60	SU-8 Optical Accelerometers. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 111-121	2.5	44
59	Fabrication of epoxy spherical microstructures by controlled drop-on-demand inkjet printing. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 074012	2	42
58	High-resolution 1D moiré as counterfeit security features. <i>Light: Science and Applications</i> , 2013 , 2, e86-e86.7	6.7	36
57	The emerging role of microfluidics in multi-material 3D bioprinting. <i>Lab on A Chip</i> , 2020 , 20, 2044-2056	7.2	34
56	Light spectral filtering based on spatial adiabatic passage. <i>Light: Science and Applications</i> , 2013 , 2, e90-e90.7	6.7	33
55	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
54	Microfluidic Electrochemical Sensor for Cerebrospinal Fluid and Blood Dopamine Detection in a Mouse Model of Parkinson's Disease. <i>Analytical Chemistry</i> , 2020 , 92, 12347-12355	7.8	27
53	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
52	Full-field photonic biosensors based on tunable bio-doped sol-gel glasses. <i>Lab on A Chip</i> , 2008 , 8, 1185-99.2	9.2	26
51	Reversible Light-Switching of Enzymatic Activity on Orthogonally Functionalized Polymer Brushes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9245-9249	9.5	23
50	Microlenses with defined contour shapes. <i>Optics Express</i> , 2011 , 19, 18665-70	3.3	23
49	Organic-inorganic-hybrid-polymer microlens arrays with tailored optical characteristics and multi-focal properties. <i>Optics Express</i> , 2015 , 23, 25365-76	3.3	20
48	High-aspect-ratio nanoimprint process chains. <i>Microsystems and Nanoengineering</i> , 2017 , 3, 17017	7.7	20
47	Algae-silica systems as functional hybrid materials. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9362-9369		20
46	Patterning High-Aspect-Ratio Sol-Gel Structures by Microtransfer Molding. <i>Chemistry of Materials</i> , 2008 , 20, 2662-2668	9.6	19

45	Integrated polymer optical accelerometer. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 1262-1264	2.2	19
44	Direct writing laser of high aspect ratio epoxy microstructures. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 017003	2	18
43	Polymer microoptoelectromechanical systems: Accelerometers and variable optical attenuators. <i>Sensors and Actuators A: Physical</i> , 2008 , 145-146, 147-153	3.9	18
42	Poly(Dimethylsiloxane) Waveguide Cantilevers for Optomechanical Sensing. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 79-81	2.2	17
41	Optical biosensor based on hollow integrated waveguides. <i>Analytical Chemistry</i> , 2008 , 80, 3498-501	7.8	17
40	Precision Surface Microtopography Regulates Cell Fate via Changes to Actomyosin Contractility and Nuclear Architecture. <i>Advanced Science</i> , 2021 , 8, 2003186	13.6	17
39	Design considerations of a hollow microneedle-optofluidic biosensing platform incorporating enzyme-linked assays. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 024002	2	14
38	Inkjet printed superparamagnetic polymer composite hemispheres with programmed magnetic anisotropy. <i>Nanoscale</i> , 2014 , 6, 10495-9	7.7	13
37	Inkjet Printing of High Aspect Ratio Superparamagnetic SU-8 Microstructures with Preferential Magnetic Directions. <i>Micromachines</i> , 2014 , 5, 583-593	3.3	13
36	A polymeric micro-optical interface for flow monitoring in biomicrofluidics. <i>Biomicrofluidics</i> , 2010 , 4,	3.2	13
35	3-D modifiable PDMS-based microlens system. <i>Optics Express</i> , 2008 , 16, 4918-29	3.3	13
34	Curved Holographic Combiner for Color Head Worn Display. <i>Journal of Display Technology</i> , 2014 , 10, 444-449		12
33	Inkjet printed SU-8 hemispherical microcapsules and silicon chip embedding. <i>Micro and Nano Letters</i> , 2013 , 8, 633-636	0.9	12
32	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
31	Biomimetic soft lithography on curved nanostructured surfaces. <i>Microelectronic Engineering</i> , 2012 , 97, 269-271	2.5	11
30	Polymeric MOEMS Variable Optical Attenuator. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 2425-2427	2.2	11
29	Recent Progress in Lab-On-a-Chip Systems for the Monitoring of Metabolites for Mammalian and Microbial Cell Research. <i>Sensors</i> , 2019 , 19,	3.8	11
28	Fluid-mediated parallel self-assembly of polymeric micro-capsules for liquid encapsulation and release. <i>Soft Matter</i> , 2013 , 9, 9931	3.6	10

27	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
26	Enhanced electrochemical sensing performance by insitu electrocopolymerization of pyrrole and thiophene-grafted chitosan. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 582-593	7.9	9
25	Light coupling into an optical microcantilever by an embedded diffraction grating. <i>Applied Optics</i> , 2006 , 45, 229-34	1.7	8
24	Hollow waveguide-based full-field absorbance biosensor. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 143-149	8.5	7
23	Highly Selective Nanostructured Electrochemical Sensor Utilizing Densely Packed Ultrathin Gold Nanowires Film. <i>Electroanalysis</i> , 2020 , 32, 1850-1858	3	6
22	Mechanically tuneable microoptical structure based on PDMS. <i>Sensors and Actuators A: Physical</i> , 2010 , 162, 260-266	3.9	6
21	High-Aspect-Ratio SU-8-Based Optofluidic Device for Ammonia Detection in Cell Culture Media. <i>ACS Sensors</i> , 2020 , 5, 2523-2529	9.2	6
20	Next Generation Cell Culture Tools Featuring Micro- and Nanotopographies for Biological Screening. <i>Advanced Functional Materials</i> , 2100881	15.6	6
19	Microdrop generation and deposition of ionic liquids. <i>Journal of Materials Research</i> , 2014 , 29, 2100-2107	2.5	5
18	Silicon-based rectangular hollow integrated waveguides. <i>Optics Communications</i> , 2008 , 281, 1568-1575	2	5
17	Patterning of diamond like carbon films for sensor applications using silicon containing thermoplastic resist (SiPol) as a hard mask. <i>Applied Surface Science</i> , 2016 , 385, 145-152	6.7	5
16	Polymeric variable optical attenuators based on magnetic sensitive stimuli materials. <i>Journal of Micromechanics and Microengineering</i> , 2014 , 24, 125008	2	4
15	Direct imprinting of organic/inorganic hybrid materials into high aspect ratio sub-100 nm structures. <i>Microsystem Technologies</i> , 2014 , 20, 1961-1966	1.7	4
14	Heterogeneous material micro-transfer by ink-jet print assisted mould filling. <i>Microelectronic Engineering</i> , 2012 , 98, 619-622	2.5	4
13	Mechanically tuneable microoptical structure based on PDMS. <i>Procedia Chemistry</i> , 2009 , 1, 560-563		4
12	Three-dimensional imaging on a chip using optofluidics light-sheet fluorescence microscopy. <i>Lab on A Chip</i> , 2021 , 21, 2945-2954	7.2	4
11	Curved transfective holographic screens for head-mounted display 2013 ,		3
10	Fluorophore-doped xerogel antiresonant reflecting optical waveguides. <i>Optics Express</i> , 2011 , 19, 5026-39	3.3	3

9	Characterization of optical accelerometers based on UV-sensitive polymers. <i>IEEE Sensors Journal</i> , 2006 , 6, 412-419	4	3
8	Microfabricated silicon chip as lipid membrane sample holder for serial protein crystallography. <i>Micro and Nano Engineering</i> , 2019 , 3, 31-36	3.4	2
7	High-Frequency Ultrasound Boosts Bull and Human Sperm Motility.. <i>Advanced Science</i> , 2022 , 9, e2104362	3.6	2
6	Hollow waveguides ray-tracing analysis 2008 ,		1
5	Colorimetric Detection of Extracellular Hydrogen Peroxide Using an Integrated Microfluidic Device.. <i>Analytical Chemistry</i> , 2022 ,	7.8	1
4	Three-Dimensional Micropatterning Deters Early Bacterial Adherence and Can Eliminate Colonization. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23339-23351	9.5	1
3	UV-patternable polymers with selective spectral response. <i>Microelectronic Engineering</i> , 2012 , 98, 234-237	7.5	0
2	Integrated Microfluidic Device to Monitor Unseen Escherichia Coli Contamination in Mammalian Cell Culture. <i>Sensors and Actuators B: Chemical</i> , 2022 , 131522	8.5	0
1	Next Generation Cell Culture Tools Featuring Micro- and Nanotopographies for Biological Screening (Adv. Funct. Mater. 3/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270023	15.6	