Victor Javier Cadarso Busto

List of Publications by Year in Descending Order

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	Next Generation Cell Culture Tools Featuring Micro- and Nanotopographies for Biological Screening (Adv. Funct. Mater. 3/2022). *Advanced Functional Materials*, **2022**, 32, 2270023	15.6	
61	Colorimetric Detection of Extracellular Hydrogen Peroxide Using an Integrated Microfluidic Device.. *Analytical Chemistry*, **2022**,	7.8	1
60	Integrated Microfluidic Device to Monitor Unseen Escherichia Coli Contamination in Mammalian Cell Culture. *Sensors and Actuators B: Chemical*, **2022**, 131522	8.5	0
59	High-Frequency Ultrasound Boosts Bull and Human Sperm Motility.. *Advanced Science*, **2022**, 9, e2104362	13.6	2
58	Three-Dimensional Micropatterning Deters Early Bacterial Adherence and Can Eliminate Colonization. *ACS Applied Materials & Interfaces*, **2021**, 13, 23339-23351	9.5	1
57	Precision Surface Microtopography Regulates Cell Fate via Changes to Actomyosin Contractility and Nuclear Architecture. *Advanced Science*, **2021**, 8, 2003186	13.6	17
56	Three-dimensional imaging on a chip using optofluidics light-sheet fluorescence microscopy. *Lab on A Chip*, **2021**, 21, 2945-2954	7.2	4
55	The emerging role of microfluidics in multi-material 3D bioprinting. *Lab on A Chip*, **2020**, 20, 2044-2056	7.2	34
54	Highly Selective Nanostructured Electrochemical Sensor Utilizing Densely Packed Ultrathin Gold Nanowires Film. *Electroanalysis*, **2020**, 32, 1850-1858	3	6
53	Enhanced electrochemical sensing performance by insitu electrocopolymerization of pyrrole and thiophene-grafted chitosan. *International Journal of Biological Macromolecules*, **2020**, 143, 582-593	7.9	9
52	High-Aspect-Ratio SU-8-Based Optofluidic Device for Ammonia Detection in Cell Culture Media. *ACS Sensors*, **2020**, 5, 2523-2529	9.2	6
51	Microfluidic Electrochemical Sensor for Cerebrospinal Fluid and Blood Dopamine Detection in a Mouse Model of Parkinson's Disease. *Analytical Chemistry*, **2020**, 92, 12347-12355	7.8	27
50	Microfabricated silicon chip as lipid membrane sample holder for serial protein crystallography. *Micro and Nano Engineering*, **2019**, 3, 31-36	3.4	2
49	Recent Progress in Lab-On-a-Chip Systems for the Monitoring of Metabolites for Mammalian and Microbial Cell Research. *Sensors*, **2019**, 19,	3.8	11
48	Design considerations of a hollow microneedle-optofluidic biosensing platform incorporating enzyme-linked assays. *Journal of Micromechanics and Microengineering*, **2018**, 28, 024002	2	14
47	Reversible Light-Switching of Enzymatic Activity on Orthogonally Functionalized Polymer Brushes. *ACS Applied Materials & Interfaces*, **2017**, 9, 9245-9249	9.5	23
46	High-aspect-ratio nanoimprint process chains. *Microsystems and Nanoengineering*, **2017**, 3, 17017	7.7	20

45	Integrated hollow microneedle-optofluidic biosensor for therapeutic drug monitoring in sub-nanoliter volumes. *Scientific Reports*, **2016**, 6, 29075	4.9	55
44	Integrated Photonic Nanofences: Combining Subwavelength Waveguides with an Enhanced Evanescent Field for Sensing Applications. *ACS Nano*, **2016**, 10, 778-85	16.7	28
43	Patterning of diamond like carbon films for sensor applications using silicon containing thermoplastic resist (SiPol) as a hard mask. *Applied Surface Science*, **2016**, 385, 145-152	6.7	5
42	Organic-inorganic-hybrid-polymer microlens arrays with tailored optical characteristics and multi-focal properties. *Optics Express*, **2015**, 23, 25365-76	3.3	20
41	Inkjet printed superparamagnetic polymer composite hemispheres with programmed magnetic anisotropy. *Nanoscale*, **2014**, 6, 10495-9	7.7	13
40	PDMS-based, magnetically actuated variable optical attenuators obtained by soft lithography and inkjet printing technologies. *Sensors and Actuators A: Physical*, **2014**, 215, 30-35	3.9	11
39	Inkjet Printing of High Aspect Ratio Superparamagnetic SU-8 Microstructures with Preferential Magnetic Directions. *Micromachines*, **2014**, 5, 583-593	3.3	13
38	Polymeric variable optical attenuators based on magnetic sensitive stimuli materials. *Journal of Micromechanics and Microengineering*, **2014**, 24, 125008	2	4
37	Curved Holographic Combiner for Color Head Worn Display. *Journal of Display Technology*, **2014**, 10, 444-449		12
36	Microdrop generation and deposition of ionic liquids. *Journal of Materials Research*, **2014**, 29, 2100-2107	2.5	5
35	Direct imprinting of organic–inorganic hybrid materials into high aspect ratio sub-100 nm structures. *Microsystem Technologies*, **2014**, 20, 1961-1966	1.7	4
34	Curved transflective holographic screens for head-mounted display **2013**,		3
33	Fluid-mediated parallel self-assembly of polymeric micro-capsules for liquid encapsulation and release. *Soft Matter*, **2013**, 9, 9931	3.6	10
32	Light spectral filtering based on spatial adiabatic passage. *Light: Science and Applications*, **2013**, 2, e90-e96	16.7	33
31	High-resolution 1D moiré as counterfeit security features. *Light: Science and Applications*, **2013**, 2, e86-e86	16.7	36
30	Inkjet printed SU-8 hemispherical microcapsules and silicon chip embedding. *Micro and Nano Letters* , **2013**, 8, 633-636	0.9	12
29	Biomimetic soft lithography on curved nanostructured surfaces. *Microelectronic Engineering*, **2012**, 97, 269-271	2.5	11
28	Heterogeneous material micro-transfer by ink-jet print assisted mould filling. *Microelectronic Engineering*, **2012**, 98, 619-622	2.5	4

27	One-step patterning of hybrid xerogel materials for the fabrication of disposable solid-state light emitters. *ACS Applied Materials & Interfaces*, **2012**, 4, 5029-37	9.5	9
26	UV-patternable polymers with selective spectral response. *Microelectronic Engineering*, **2012**, 98, 234-237	2.5	0
25	Fabrication of epoxy spherical microstructures by controlled drop-on-demand inkjet printing. *Journal of Micromechanics and Microengineering*, **2012**, 22, 074012	2	42
24	Adiabatic Passage of Light in CMOS-Compatible Silicon Oxide Integrated Rib Waveguides. *IEEE Photonics Technology Letters*, **2012**, 24, 536-538	2.2	26
23	Fluorophore-doped xerogel antiresonant reflecting optical waveguides. *Optics Express*, **2011**, 19, 5026-39	3.3	3
22	Microlenses with defined contour shapes. *Optics Express*, **2011**, 19, 18665-70	3.3	23
21	Direct writing laser of high aspect ratio epoxy microstructures. *Journal of Micromechanics and Microengineering*, **2011**, 21, 017003	2	18
20	A polymeric micro-optical interface for flow monitoring in biomicrofluidics. *Biomicrofluidics*, **2010**, 4,	3.2	13
19	Algae–silica systems as functional hybrid materials. *Journal of Materials Chemistry*, **2010**, 20, 9362-9369		20
18	Mechanically tuneable microoptical structure based on PDMS. *Sensors and Actuators A: Physical*, **2010**, 162, 260-266	3.9	6
17	Mechanically tuneable microoptical structure based on PDMS. *Procedia Chemistry*, **2009**, 1, 560-563		4
16	Hollow waveguide-based full-field absorbance biosensor. *Sensors and Actuators B: Chemical*, **2009**, 139, 143-149	8.5	7
15	Poly(Dimethylsiloxane) Waveguide Cantilevers for Optomechanical Sensing. *IEEE Photonics Technology Letters*, **2009**, 21, 79-81	2.2	17
14	Full-field photonic biosensors based on tunable bio-doped sol-gel glasses. *Lab on A Chip*, **2008**, 8, 1185-90	7.2	26
13	3-D modulable PDMS-based microlens system. *Optics Express*, **2008**, 16, 4918-29	3.3	13
12	Optical biosensor based on hollow integrated waveguides. *Analytical Chemistry*, **2008**, 80, 3498-501	7.8	17
11	Patterning High-Aspect-Ratio Sol–Gel Structures by Microtransfer Molding. *Chemistry of Materials*, **2008**, 20, 2662-2668	9.6	19
10	Hollow waveguides ray-tracing analysis **2008**,		1

List of Publications

9	Polymer microoptoelectromechanical systems: Accelerometers and variable optical attenuators. *Sensors and Actuators A: Physical*, **2008**, 145-146, 147-153	3.9	18
8	Silicon-based rectangular hollow integrated waveguides. *Optics Communications*, **2008**, 281, 1568-1575	2	5
7	SU-8 Optical Accelerometers. *Journal of Microelectromechanical Systems*, **2007**, 16, 111-121	2.5	44
6	Characterization of optical accelerometers based on UV-sensitive polymers. *IEEE Sensors Journal*, **2006**, 6, 412-419	4	3
5	Polymeric MOEMS Variable Optical Attenuator. *IEEE Photonics Technology Letters*, **2006**, 18, 2425-2427	2.2	11
4	Light coupling into an optical microcantilever by an embedded diffraction grating. *Applied Optics*, **2006**, 45, 229-34	1.7	8
3	A novel optical waveguide microcantilever sensor for the detection of nanomechanical forces. *Journal of Lightwave Technology*, **2006**, 24, 2132-2138	4	65
2	Integrated polymer optical accelerometer. *IEEE Photonics Technology Letters*, **2005**, 17, 1262-1264	2.2	19
1	Next Generation Cell Culture Tools Featuring Micro- and Nanotopographies for Biological Screening. *Advanced Functional Materials*,2100881	15.6	6