

# Juan Hernandez-Cordero

## 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.

67  
papers

640  
citations

13  
h-index

22  
g-index

111  
ext. papers

818  
ext. citations

3.1  
avg, IF

3.97  
L-index

#	Paper	IF	Citations
67	Six mode selective fiber optic spatial multiplexer. <i>Optics Letters</i> , <b>2015</b> , 40, 1663-6	3	89
66	All-fiber coherent beam combining of fiber lasers. <i>Optics Letters</i> , <b>1999</b> , 24, 1814-6	3	70
65	Fiber laser polarization tuning using a Bragg grating in a Hi-Bi fiber. <i>IEEE Photonics Technology Letters</i> , <b>1998</b> , 10, 941-943	2.2	48
64	Heat generation and conduction in PDMS-carbon nanoparticle membranes irradiated with optical fibers. <i>International Journal of Thermal Sciences</i> , <b>2015</b> , 96, 12-22	4.1	33
63	Power spectral distributions of pseudo-turbulent bubbly flows. <i>Physics of Fluids</i> , <b>2013</b> , 25, 043303	4.4	27
62	Scaling photonic lanterns for space-division multiplexing. <i>Scientific Reports</i> , <b>2018</b> , 8, 8897	4.9	23
61	Microbubble generation using fiber optic tips coated with nanoparticles. <i>Optics Express</i> , <b>2012</b> , 20, 8732-40	5.3	21
60	Photothermal Effects and Applications of Polydimethylsiloxane Membranes with Carbon Nanoparticles. <i>Polymers</i> , <b>2016</b> , 8,	4.5	19
59	Multiwavelength and Tunable Self-Pulsating Fiber Cavity Based on Regenerative SPM Spectral Broadening and Filtering. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 1497-1499	2.2	18
58	New perspectives for direct PDMS microfabrication using a CD-DVD laser. <i>Lab on A Chip</i> , <b>2013</b> , 13, 4848-54	5.4	17
57	Evaluation of mechanical behavior of soft tissue by means of random laser emission. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 104301	1.7	16
56	Fiber optic Fabry-Perot sensor for surface tension analysis. <i>Optics Express</i> , <b>2014</b> , 22, 3028-38	3.3	15
55	Photomechanical response of composites based on PDMS and carbon soot nanoparticles under IR laser irradiation. <i>Optical Materials Express</i> , <b>2015</b> , 5, 1792	2.6	14
54	Technique for referencing of fiber-optic intensity-modulated sensors by use of counterpropagating signals. <i>Optics Letters</i> , <b>2004</b> , 29, 1467-9	3	13
53	Compact bubble clusters in Newtonian and non-Newtonian liquids. <i>Physics of Fluids</i> , <b>2014</b> , 26, 053101	4.4	12
52	Thermocapillary flow in glass tubes coated with photoresponsive layers. <i>Langmuir</i> , <b>2014</b> , 30, 5326-36	4	10
51	Angular distribution of random laser emission. <i>Optics Letters</i> , <b>2014</b> , 39, 655-8	3	10

50	Fiber optic interferometric immunosensor based on polydimethylsiloxane (PDMS) and bioactive lipids. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 1316-1326	3.5	10
49	Fabrication of large all-PDMS micropatterned waveguides for lab on chip integration using a rapid prototyping technique. <i>Optical Materials Express</i> , <b>2017</b> , 7, 1343	2.6	9
48	On the Motion of Carbon Nanotube Clusters near Optical Fiber Tips: Thermophoresis, Radiative Pressure, and Convection Effects. <i>Langmuir</i> , <b>2015</b> , 31, 10066-75	4	8
47	Device for characterization of thermal effusivity of liquids using photothermal beam deflection. <i>Review of Scientific Instruments</i> , <b>2007</b> , 78, 104901	1.7	8
46	Fiber optic fluorescence temperature sensors using up-conversion from rare-earth polymer composites. <i>Optics Letters</i> , <b>2019</b> , 44, 1194-1197	3	8
45	Photothermal lesions in soft tissue induced by optical fiber microheaters. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 1138-48	3.5	8
44	Controlled Deposition of Polymer Coatings on Cylindrical Photonic Devices. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 176-182	4	7
43	Optical trapping and micromanipulation with a photonic lantern-mode multiplexer. <i>Optics Letters</i> , <b>2018</b> , 43, 1303-1306	3	7
42	Highly accurate method for single-mode fiber laser wavelength measurement. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 83-85	2.2	7
41	Polarization effects in a high-birefringence elliptical fiber laser with a Bragg grating in a low-birefringence fiber. <i>Applied Optics</i> , <b>2000</b> , 39, 972-7	1.7	7
40	Enhanced near infrared optical access to the brain with a transparent cranial implant and scalp optical clearing. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 3369-3379	3.5	7
39	Fabrication Process for PDMS Polymer/Silica Long-Period Fiber Grating Sensors. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 2150-2153	2.2	6
38	Enhanced photomechanical response of a NiTi shape memory alloy coated with polymer-based photothermal composites. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 105012	3.4	6
37	Single Polarization-Mode-Beating Frequency Fiber Laser. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 537-539	2.2	6
36	Few layers graphene as thermally activated optical modulator in the visible-near IR spectral range. <i>Optics Letters</i> , <b>2016</b> , 41, 167-70	3	5
35	Laser induced deformation in polydimethylsiloxane membranes with embedded carbon nanopowder. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 037001	3.4	5
34	Optically Driven All-Fiber Polarization Rotator. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 1672-1677	4	5
33	Mechanical assessment of bovine pericardium using M�ller matrix imaging, enhanced backscattering and digital image correlation analysis. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 2953-60	3.5	4

32	An optopneumatic piston for microfluidics. <i>Lab on A Chip</i> , <b>2015</b> , 15, 1335-42	7.2	4
31	Liquids analysis using back reflection single-mode fiber sensors <b>2011</b> ,		4
30	Gas sensors based on fiber laser intracavity spectroscopy (FLICS) <b>1999</b> ,		4
29	Nonlinear optical properties of dielectric nanocolloids: Particle size and concentration effects. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2016</b> , 25, 1650048	0.8	4
28	All-Optical Broadband Variable Optical Attenuator Based on an $\text{As}_2\text{Se}_3$ Microwire. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 697-700	2.2	3
27	Multirate and Dual-Wavelength Semiconductor Fiber Laser. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 808-810	2.2	3
26	Intra-cavity fiber laser technique for high accuracy birefringence measurement. <i>Optics Express</i> , <b>2006</b> , 14, 7594-603	3.3	3
25	Silica-air double-clad optical fiber. <i>IEEE Photonics Technology Letters</i> , <b>2000</b> , 12, 1007-1009	2.2	3
24	Multiplexed fiber-optic Bragg stack sensors (FOBSS) for elevated temperatures. <i>IEEE Photonics Technology Letters</i> , <b>2001</b> , 13, 514-516	2.2	3
23	Evaluation of Optical Access to the Brain in the Near Infrared Range with a Transparent Cranial Implant <b>2018</b> ,		3
22	Random laser imaging of bovine pericardium under the uniaxial tensile test. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 3523-3533	3.5	2
21	Waveguides in colloidal nanosuspensions <b>2014</b> ,		2
20	Optically driven deposition of nanostructures on optical fiber end faces <b>2010</b> ,		2
19	Effects of scatterer size and concentration on the spectral features of dye-based random lasers <b>2011</b> ,		2
18	Photomechanical Polymer Nanocomposites for Drug Delivery Devices. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
17	Microbubble Generation with Tapered Optical Fibers <b>2015</b> ,		1
16	Nanoparticle coated optical fibers for single microbubble generation <b>2011</b> ,		1
15	Low-cost and biocompatible long-period fiber gratings <b>2011</b> ,		1

14	Highly Nonlinear Fibers in All-Optical Modulators. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	1
13	Fiber lasers with hybrid birefringence resonators. <i>Optics and Lasers in Engineering</i> , <b>2006</b> , 44, 1027-1038	4.6	1
12	Enhancement in sensitivity for fiber-optic torsion sensors. <i>IEEE Sensors Journal</i> , <b>2005</b> , 5, 1332-1337	4	1
11	Optical access to the brain through a transparent cranial implant <b>2020</b> ,		1
10	Composite polymer membranes for laser-induced fluorescence thermometry. <i>Optical Materials Express</i> , <b>2018</b> , 8, 3072	2.6	1
9	Tunable microring resonators using light-activated functional polymer coatings. <i>Optics Letters</i> , <b>2020</b> , 45, 6030-6033	3	1
8	Highly-sensitive Measurements of Changes in Density and Refractive Index of Air using Fiber Laser Polarization Mode Beating Techniques <b>2010</b> ,		1
7	Microbubble Generation Using Carbon Nanostructures Deposited onto Optical Fibers. <i>Environmental Science and Engineering</i> , <b>2012</b> , 371-378	0.2	1
6	. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 9203-9209	4	1
5	Fiber optic probe with functional polymer composites for hyperthermia. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 4730-4744	3.5	0
4	Programmable control system for wavelength tuning and stabilization of optical fiber lasers. <i>Optical Engineering</i> , <b>2005</b> , 44, 044201	1.1	
3	Polarization switching in an Er-doped fiber lasers using an intra-cavity electro-optical switch <b>2005</b> , 6004, 165		
2	Real-time, high-gain, computer controlled amplifier for optical detection systems. <i>Review of Scientific Instruments</i> , <b>2002</b> , 73, 203-208	1.7	
1	Experimental and computational model approach to assess the photothermal effects in transparent nanocrystalline yttria stabilized zirconia cranial implant. <i>Computer Methods and Programs in Biomedicine</i> , <b>2022</b> , 106896	6.9	