

# Juan Hernández-Cordero

## List of Publications by Year in descending order

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109  
papers

946  
citations

516561

16  
h-index

477173

29  
g-index

111  
all docs

111  
docs citations

111  
times ranked

968  
citing authors

#	ARTICLE	IF	CITATIONS
1	Six mode selective fiber optic spatial multiplexer. Optics Letters, 2015, 40, 1663.	1.7	137
2	All-fiber coherent beam combining of fiber lasers. Optics Letters, 1999, 24, 1814.	1.7	92
3	Heat generation and conduction in PDMS-carbon nanoparticle membranes irradiated with optical fibers. International Journal of Thermal Sciences, 2015, 96, 12-22.	2.6	67
4	Scaling photonic lanterns for space-division multiplexing. Scientific Reports, 2018, 8, 8897.	1.6	57
5	Fiber laser polarization tuning using a Bragg grating in a Hi-Bi fiber. IEEE Photonics Technology Letters, 1998, 10, 941-943.	1.3	56
6	Power spectral distributions of pseudo-turbulent bubbly flows. Physics of Fluids, 2013, 25, .	1.6	42
7	Multiwavelength and Tunable Self-Pulsating Fiber Cavity Based on Regenerative SPM Spectral Broadening and Filtering. IEEE Photonics Technology Letters, 2008, 20, 1497-1499.	1.3	29
8	Microbubble generation using fiber optic tips coated with nanoparticles. Optics Express, 2012, 20, 8732.	1.7	29
9	Photothermal Effects and Applications of Polydimethylsiloxane Membranes with Carbon Nanoparticles. Polymers, 2016, 8, 84.	2.0	28
10	New perspectives for direct PDMS microfabrication using a CD-DVD laser. Lab on A Chip, 2013, 13, 4848.	3.1	24
11	Evaluation of mechanical behavior of soft tissue by means of random laser emission. Review of Scientific Instruments, 2013, 84, 104301.	0.6	23
12	Fiber optic Fabry-Perot sensor for surface tension analysis. Optics Express, 2014, 22, 3028.	1.7	21
13	Photomechanical response of composites based on PDMS and carbon soot nanoparticles under IR laser irradiation. Optical Materials Express, 2015, 5, 1792.	1.6	21
14	Optical trapping and micromanipulation with a photonic lantern-mode multiplexer. Optics Letters, 2018, 43, 1303.	1.7	19
15	Fiber optic interferometric immunosensor based on polydimethylsiloxane (PDMS) and bioactive lipids. Biomedical Optics Express, 2020, 11, 1316.	1.5	19
16	Fiber optic fluorescence temperature sensors using up-conversion from rare-earth polymer composites. Optics Letters, 2019, 44, 1194.	1.7	18
17	Compact bubble clusters in Newtonian and non-Newtonian liquids. Physics of Fluids, 2014, 26, .	1.6	15
18	Technique for referencing of fiber-optic intensity-modulated sensors by use of counterpropagating signals. Optics Letters, 2004, 29, 1467.	1.7	14

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19	Enhanced near infrared optical access to the brain with a transparent cranial implant and scalp optical clearing. <i>Biomedical Optics Express</i> , 2019, 10, 3369.	1.5	14
20	Fabrication of large all-PDMS micropatterned waveguides for lab on chip integration using a rapid prototyping technique. <i>Optical Materials Express</i> , 2017, 7, 1343.	1.6	13
21	Thermocapillary Flow in Glass Tubes Coated with Photoresponsive Layers. <i>Langmuir</i> , 2014, 30, 5326-5336.	1.6	12
22	Photothermal lesions in soft tissue induced by optical fiber microheaters. <i>Biomedical Optics Express</i> , 2016, 7, 1138.	1.5	12
23	Angular distribution of random laser emission. <i>Optics Letters</i> , 2014, 39, 655.	1.7	11
24	Highly accurate method for single-mode fiber laser wavelength measurement. <i>IEEE Photonics Technology Letters</i> , 2002, 14, 83-85.	1.3	10
25	Device for characterization of thermal effusivity of liquids using photothermal beam deflection. <i>Review of Scientific Instruments</i> , 2007, 78, 104901.	0.6	10
26	Polarization effects in a high-birefringence elliptical fiber laser with a Bragg grating in a low-birefringence fiber. <i>Applied Optics</i> , 2000, 39, 972.	2.1	8
27	Controlled Deposition of Polymer Coatings on Cylindrical Photonic Devices. <i>Journal of Lightwave Technology</i> , 2015, 33, 176-182.	2.7	8
28	On the Motion of Carbon Nanotube Clusters near Optical Fiber Tips: Thermophoresis, Radiative Pressure, and Convection Effects. <i>Langmuir</i> , 2015, 31, 10066-10075.	1.6	8
29	Multiplexed fiber-optic Bragg stack sensors (FOBSS) for elevated temperatures. <i>IEEE Photonics Technology Letters</i> , 2001, 13, 514-516.	1.3	7
30	Single Polarization-Mode-Beating Frequency Fiber Laser. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 537-539.	1.3	7
31	Fabrication Process for PDMS Polymer/Silica Long-Period Fiber Grating Sensors. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 2150-2153.	1.3	7
32	Enhanced photomechanical response of a Ni-Ti shape memory alloy coated with polymer-based photothermal composites. <i>Smart Materials and Structures</i> , 2017, 26, 105012.	1.8	7
33	Mechanical assessment of bovine pericardium using Mueller matrix imaging, enhanced backscattering and digital image correlation analysis. <i>Biomedical Optics Express</i> , 2015, 6, 2953.	1.5	6
34	Few layers graphene as thermally activated optical modulator in the visible-near IR spectral range. <i>Optics Letters</i> , 2016, 41, 167.	1.7	6
35	Intra-cavity fiber laser technique for high accuracy birefringence measurement. <i>Optics Express</i> , 2006, 14, 7594.	1.7	5
36	Optically Driven All-Fiber Polarization Rotator. <i>Journal of Lightwave Technology</i> , 2011, 29, 1672-1677.	2.7	5

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37	Liquids analysis using back reflection single-mode fiber sensors. Proceedings of SPIE, 2011, , .	0.8	5
38	Laser induced deformation in polydimethylsiloxane membranes with embedded carbon nanopowder. Smart Materials and Structures, 2013, 22, 037001.	1.8	5
39	Photomechanical Polymer Nanocomposites for Drug Delivery Devices. Molecules, 2021, 26, 5376.	1.7	5
40	<title>Gas sensors based on fiber laser intracavity spectroscopy (FLICS)</title>. , 1999, , .		4
41	Silica-air double-clad optical fiber. IEEE Photonics Technology Letters, 2000, 12, 1007-1009.	1.3	4
42	An optopneumatic piston for microfluidics. Lab on A Chip, 2015, 15, 1335-1342.	3.1	4
43	Nonlinear optical properties of dielectric nanocolloids: Particle size and concentration effects. Journal of Nonlinear Optical Physics and Materials, 2016, 25, 1650048.	1.1	4
44	Controlled Fabrication of Polymer End-Capped Fiber Optic Sensors. IEEE Sensors Journal, 2021, 21, 9203-9209.	2.4	4
45	Evaluation of Optical Access to the Brain in the Near Infrared Range with a Transparent Cranial Implant. , 2018, , .		4
46	Multirate and Dual-Wavelength Semiconductor Fiber Laser. IEEE Photonics Technology Letters, 2009, 21, 808-810.	1.3	3
47	Optically driven deposition of nanostructures on optical fiber end faces. , 2010, , .		3
48	All-Optical Broadband Variable Optical Attenuator Based on an $\{m As\}_{2}\{m Se\}_{3}$ Microwire. IEEE Photonics Technology Letters, 2013, 25, 697-700.	1.3	3
49	Composite polymer membranes for laser-induced fluorescence thermometry. Optical Materials Express, 2018, 8, 3072.	1.6	3
50	Waveguides in colloidal nanosuspensions. , 2014, , .		2
51	Random laser imaging of bovine pericardium under the uniaxial tensile test. Biomedical Optics Express, 2018, 9, 3523.	1.5	2
52	Effects of scatterer size and concentration on the spectral features of dye-based random lasers. , 2011, , .		2
53	Highly-sensitive Measurements of Changes in Density and Refractive Index of Air using Fiber Laser Polarization Mode Beating Techniques. , 2010, , .		2
54	Optically Controlled Wavelength Tunable Fused Fiber Coupler. , 2013, , .		2

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55	Real-time, high-gain, computer controlled amplifier for optical detection systems. Review of Scientific Instruments, 2002, 73, 203-208.	0.6	1
56	Torsion sensors based on the fiber optic Malus Fabry-Perot interferometer. , 2004, , .		1
57	Enhancement in sensitivity for fiber-optic torsion sensors. IEEE Sensors Journal, 2005, 5, 1332-1337.	2.4	1
58	Fiber lasers with hybrid birefringence resonators. Optics and Lasers in Engineering, 2006, 44, 1027-1038.	2.0	1
59	Highly Nonlinear Fibers in All-Optical Modulators. AIP Conference Proceedings, 2008, , .	0.3	1
60	Multi-channel all-optical signal processing using a single multi-channel all-optical loop modulator. , 2008, , .		1
61	Front Matter: Volume 7839. Proceedings of SPIE, 2010, , .	0.8	1
62	Nanoparticle coated optical fibers for single microbubble generation. Proceedings of SPIE, 2011, , .	0.8	1
63	Low-cost and biocompatible long-period fiber gratings. , 2011, , .		1
64	Microbubble Generation with Tapered Optical Fibers. , 2015, , .		1
65	Fiber optic probe with functional polymer composites for hyperthermia. Biomedical Optics Express, 2021, 12, 4730.	1.5	1
66	Optical access to the brain through a transparent cranial implant. , 2020, , .		1
67	Fiber optic biosensor based on polydimethylsiloxane (PDMS) and bioactive lipids. , 2020, , .		1
68	Characterization of optical nonlinearity and formation of Self-Collimated Beams in nanocolloids. , 2016, , .		1
69	Highly-sensitive Intracavity Detection using Polarization Mode Beating Techniques. , 2009, , .		1
70	Fiber Coupled Optically Tunable Polymer/Glass Microring Resonators. , 2016, , .		1
71	Tunable microring resonators using light-activated functional polymer coatings. Optics Letters, 2020, 45, 6030.	1.7	1
72	Matrix analysis for fiber lasers with hybrid birefringence resonators. , 2003, , .		0

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73	Polarization switched optical fiber laser for AC optical nulling bridges. , 2003, 4833, 840.		0
74	Intra-cavity polarization switching in optical fiber lasers. , 2004, , .		0
75	Computer-controlled tunable fiber laser. , 2004, , .		0
76	<title>Superluminescent fiber laser sources for fiber optics sensors</title>. , 2004, , .		0
77	<title>Heat flux sensor based on photothermal beam deflection for thermal characterization of liquids</title>. , 2004, 5478, 274.		0
78	Prototype security system for Mexico City's light train crossings. , 2004, , .		0
79	Programmable control system for wavelength tuning and stabilization of optical fiber lasers. Optical Engineering, 2005, 44, 044201.	0.5	0
80	Polarization switching in an Er-doped fiber lasers using an intra-cavity electro-optical switch. , 2005, 6004, 165.		0
81	Modulation in optical fiber lasers using polarization feedback. , 2007, , .		0
82	Multiwavelength and tunable regenerative laser resonator with passive self-pulsating action. , 2008, , .		0
83	All-optical clock recovery in a semiconductor fiber laser and a nonlinear optical loop modulator with wavelength-switching capability. , 2008, , .		0
84	Tunable mode-locked semiconductor fiber laser using a nonlinear optical loop mirror. , 2008, , .		0
85	Multiwavelength self-pulsating fibre laser based on cascaded SPM spectral broadening and filtering. Proceedings of SPIE, 2008, , .	0.8	0
86	Polarization mode beating intracavity technique for fiber laser sensing. Proceedings of SPIE, 2008, , .	0.8	0
87	Polarization switched frequency shifted feedback fiber laser. , 2010, , .		0
88	Intra-cavity fiber laser polarization mode beating sensing. , 2010, , .		0
89	Optically controlled all-fiber polarization rotator. Proceedings of SPIE, 2010, , .	0.8	0
90	Single-mode optical fiber liquids analyzer. , 2010, , .		0

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91	Laser Direct Microfabrication Using Light-Induced Nanoparticle Incandescence. , 2012, , .		0
92	Angular study of the random laser emission. , 2012, , .		0
93	Fabrication of polymer Fabry-Perot fiber sensors using optical fiber microheaters. , 2013, , .		0
94	PDMS Laser-Induced Forward Transfer using a CD-DVD laser platform. , 2014, , .		0
95	Optical spatial solitons in bidisperse fluorescent nanocolloids. , 2015, , .		0
96	Functional Tapered Fiber Devices Using Polymeric Coatings. , 0, , .		0
97	High Sensitivity Detection Using Intra-Cavity Mode Beating. , 2006, , .		0
98	Characterization of a Low-Cost Long-Period Fiber Grating Induced by a Polymeric Microstructure. , 2011, , .		0
99	Laser Triggered Displacement of Embedded Carbon Microparticles in PDMS. , 2012, , .		0
100	Analysis of Interfacial Properties of Confined Liquid-Glass Pairs Using Etched Optical Fibers. , 2014, , .		0
101	Functional Polymer Coatings for Photonic Devices. , 2014, , .		0
102	Enhanced backscattering measurements in bovine pericardium tensile tests. , 2014, , .		0
103	Fabrication and Applications of Optical Fiber Micro-heaters. , 2016, , .		0
104	Photomechanical response of PDMS+CNP composite under IR irradiation detected by dynamic speckle. , 2016, , .		0
105	Photomechanical actuator of Ni-Ti shape memory alloy coated with a carbon composite. , 2016, , .		0
106	Fiber optic temperature sensors with polymer-based fluorescent materials. , 2018, , .		0
107	Optical Trapping and Manipulation of Multiple Microparticles Using SDM Fibers. , 2018, , .		0
108	Photothermal fiber optic probes for thermal therapy. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
109	Experimental and computational model approach to assess the photothermal effects in transparent nanocrystalline yttria stabilized zirconia cranial implant. Computer Methods and Programs in Biomedicine, 2022, 221, 106896.	2.6	0