Juan Hernndez-Cordero

List of Publications by Year in Descending Order

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	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**, 106896	6.9	
66	. *IEEE Sensors Journal*, **2021**, 21, 9203-9209	4	1
65	Fiber optic probe with functional polymer composites for hyperthermia. *Biomedical Optics Express*, **2021**, 12, 4730-4744	3.5	0
64	Photomechanical Polymer Nanocomposites for Drug Delivery Devices. *Molecules*, **2021**, 26,	4.8	2
63	Optical access to the brain through a transparent cranial implant **2020**,		1
62	Fiber optic interferometric immunosensor based on polydimethilsiloxane (PDMS) and bioactive lipids. *Biomedical Optics Express*, **2020**, 11, 1316-1326	3.5	10
61	Tunable microring resonators using light-activated functional polymer coatings. *Optics Letters*, **2020**, 45, 6030-6033	3	1
60	Enhanced near infrared optical access to the brain with a transparent cranial implant and scalp optical clearing. *Biomedical Optics Express*, **2019**, 10, 3369-3379	3.5	7
59	Fiber optic fluorescence temperature sensors using up-conversion from rare-earth polymer composites. *Optics Letters*, **2019**, 44, 1194-1197	3	8
58	Random laser imaging of bovine pericardium under the uniaxial tensile test. *Biomedical Optics Express*, **2018**, 9, 3523-3533	3.5	2
57	Optical trapping and micromanipulation with a photonic lantern-mode multiplexer. *Optics Letters*, **2018**, 43, 1303-1306	3	7
56	Evaluation of Optical Access to the Brain in the Near Infrared Range with a Transparent Cranial Implant **2018**,		3
55	Composite polymer membranes for laser-induced fluorescence thermometry. *Optical Materials Express*, **2018**, 8, 3072	2.6	1
54	Scaling photonic lanterns for space-division multiplexing. *Scientific Reports*, **2018**, 8, 8897	4.9	23
53	Enhanced photomechanical response of a NiTi shape memory alloy coated with polymer-based photothermal composites. *Smart Materials and Structures*, **2017**, 26, 105012	3.4	6
52	Fabrication of large all-PDMS micropatterned waveguides for lab on chip integration using a rapid prototyping technique. *Optical Materials Express*, **2017**, 7, 1343	2.6	9
51	Few layers graphene as thermally activated optical modulator in the visible-near IR spectral range. *Optics Letters*, **2016**, 41, 167-70	3	5

50	Photothermal Effects and Applications of Polydimethylsiloxane Membranes with Carbon Nanoparticles. *Polymers*, **2016**, 8,	4.5	19
49	Nonlinear optical properties of dielectric nanocolloids: Particle size and concentration effects. *Journal of Nonlinear Optical Physics and Materials*, **2016**, 25, 1650048	0.8	4
48	Photothermal lesions in soft tissue induced by optical fiber microheaters. *Biomedical Optics Express*, **2016**, 7, 1138-48	3.5	8
47	Heat generation and conduction in PDMS-carbon nanoparticle membranes irradiated with optical fibers. *International Journal of Thermal Sciences*, **2015**, 96, 12-22	4.1	33
46	Controlled Deposition of Polymer Coatings on Cylindrical Photonic Devices. *Journal of Lightwave Technology*, **2015**, 33, 176-182	4	7
45	Photomechanical response of composites based on PDMS and carbon soot nanoparticles under IR laser irradiation. *Optical Materials Express*, **2015**, 5, 1792	2.6	14
44	Mechanical assessment of bovine pericardium using Mueller matrix imaging, enhanced backscattering and digital image correlation analysis. *Biomedical Optics Express*, **2015**, 6, 2953-60	3.5	4
43	Six mode selective fiber optic spatial multiplexer. *Optics Letters*, **2015**, 40, 1663-6	3	89
42	Microbubble Generation with Tapered Optical Fibers **2015**,		1
41	Fabrication Process for PDMS Polymer/Silica Long-Period Fiber Grating Sensors. *IEEE Photonics Technology Letters*, **2015**, 27, 2150-2153	2.2	6
40	On the Motion of Carbon Nanotube Clusters near Optical Fiber Tips: Thermophoresis, Radiative Pressure, and Convection Effects. *Langmuir*, **2015**, 31, 10066-75	4	8
39	An optopneumatic piston for microfluidics. *Lab on A Chip*, **2015**, 15, 1335-42	7.2	4
38	Compact bubble clusters in Newtonian and non-Newtonian liquids. *Physics of Fluids*, **2014**, 26, 053101	4.4	12
37	Thermocapillary flow in glass tubes coated with photoresponsive layers. *Langmuir*, **2014**, 30, 5326-36	4	10
36	Waveguides in colloidal nanosuspensions **2014**,		2
35	Angular distribution of random laser emission. *Optics Letters*, **2014**, 39, 655-8	3	10
34	Fiber optic Fabry-Perot sensor for surface tension analysis. *Optics Express*, **2014**, 22, 3028-38	3.3	15
33	New perspectives for direct PDMS microfabrication using a CD-DVD laser. *Lab on A Chip*, **2013**, 13, 4848-54	5.2	17

32	All-Optical Broadband Variable Optical Attenuator Based on an ${rm As}_{2}{rm Se}_{3}$ Microwire. *IEEE Photonics Technology Letters*, **2013**, 25, 697-700	2.2	3
31	Evaluation of mechanical behavior of soft tissue by means of random laser emission. *Review of Scientific Instruments*, **2013**, 84, 104301	1.7	16
30	Laser induced deformation in polydimethylsiloxane membranes with embedded carbon nanopowder. *Smart Materials and Structures*, **2013**, 22, 037001	3.4	5
29	Power spectral distributions of pseudo-turbulent bubbly flows. *Physics of Fluids*, **2013**, 25, 043303	4.4	27
28	Microbubble generation using fiber optic tips coated with nanoparticles. *Optics Express*, **2012**, 20, 8732-8743	3.3	21
27	Microbubble Generation Using Carbon Nanostructures Deposited onto Optical Fibers. *Environmental Science and Engineering*, **2012**, 371-378	0.2	1
26	Optically Driven All-Fiber Polarization Rotator. *Journal of Lightwave Technology*, **2011**, 29, 1672-1677	4	5
25	Nanoparticle coated optical fibers for single microbubble generation **2011**,		1
24	Liquids analysis using back reflection single-mode fiber sensors **2011**,		4
23	Low-cost and biocompatible long-period fiber gratings **2011**,		1
22	Effects of scatterer size and concentration on the spectral features of dye-based random lasers **2011**,		2
21	Optically driven deposition of nanostructures on optical fiber end faces **2010**,		2
20	Highly-sensitive Measurements of Changes in Density and Refractive Index of Air using Fiber Laser Polarization Mode Beating Techniques **2010**,		1
19	Single Polarization-Mode-Beating Frequency Fiber Laser. *IEEE Photonics Technology Letters*, **2009**, 21, 537-539	2.2	6
18	Multirate and Dual-Wavelength Semiconductor Fiber Laser. *IEEE Photonics Technology Letters*, **2009** , 21, 808-810	2.2	3
17	Multiwavelength and Tunable Self-Pulsating Fiber Cavity Based on Regenerative SPM Spectral Broadening and Filtering. *IEEE Photonics Technology Letters*, **2008**, 20, 1497-1499	2.2	18
16	Highly Nonlinear Fibers in All-Optical Modulators. *AIP Conference Proceedings*, **2008**,	0	1
15	Device for characterization of thermal effusivity of liquids using photothermal beam deflection. *Review of Scientific Instruments*, **2007**, 78, 104901	1.7	8

14	Fiber lasers with hybrid birefringence resonators. *Optics and Lasers in Engineering*, **2006**, 44, 1027-1038	4.6	1
13	Intra-cavity fiber laser technique for high accuracy birefringence measurement. *Optics Express*, **2006**, 14, 7594-603	3.3	3
12	Programmable control system for wavelength tuning and stabilization of optical fiber lasers. *Optical Engineering*, **2005**, 44, 044201	1.1	
11	Enhancement in sensitivity for fiber-optic torsion sensors. *IEEE Sensors Journal*, **2005**, 5, 1332-1337	4	1
10	Polarization switching in an Er-doped fiber lasers using an intra-cavity electro-optical switch **2005**, 6004, 165		
9	Technique for referencing of fiber-optic intensity-modulated sensors by use of counterpropagating signals. *Optics Letters*, **2004**, 29, 1467-9	3	13
8	Real-time, high-gain, computer controlled amplifier for optical detection systems. *Review of Scientific Instruments*, **2002**, 73, 203-208	1.7	
7	Highly accurate method for single-mode fiber laser wavelength measurement. *IEEE Photonics Technology Letters*, **2002**, 14, 83-85	2.2	7
6	Multiplexed fiber-optic Bragg stack sensors (FOBSS) for elevated temperatures. *IEEE Photonics Technology Letters*, **2001**, 13, 514-516	2.2	3
5	Polarization effects in a high-birefringence elliptical fiber laser with a Bragg grating in a low-birefringence fiber. *Applied Optics*, **2000**, 39, 972-7	1.7	7
4	Silica-air double-clad optical fiber. *IEEE Photonics Technology Letters*, **2000**, 12, 1007-1009	2.2	3
3	Gas sensors based on fiber laser intracavity spectroscopy (FLICS) **1999**,		4
2	All-fiber coherent beam combining of fiber lasers. *Optics Letters*, **1999**, 24, 1814-6	3	70
1	Fiber laser polarization tuning using a Bragg grating in a Hi-Bi fiber. *IEEE Photonics Technology Letters*, **1998**, 10, 941-943	2.2	48