

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	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
2	Controlled Fabrication of Polymer End-Capped Fiber Optic Sensors. IEEE Sensors Journal, 2021, 21, 9203-9209.	2.4	4
3	Fiber optic probe with functional polymer composites for hyperthermia. Biomedical Optics Express, 2021, 12, 4730.	1.5	1
4	Photomechanical Polymer Nanocomposites for Drug Delivery Devices. Molecules, 2021, 26, 5376.	1.7	5
5	Photothermal fiber optic probes for thermal therapy. , 2021, , .		0
6	Optical access to the brain through a transparent cranial implant. , 2020, , .		1
7	Fiber optic biosensor based on polydimethylsiloxane (PDMS) and bioactive lipids. , 2020, , .		1
8	Fiber optic interferometric immunosensor based on polydimethylsiloxane (PDMS) and bioactive lipids. Biomedical Optics Express, 2020, 11, 1316.	1.5	19
9	Tunable microring resonators using light-activated functional polymer coatings. Optics Letters, 2020, 45, 6030.	1.7	1
10	Enhanced near infrared optical access to the brain with a transparent cranial implant and scalp optical clearing. Biomedical Optics Express, 2019, 10, 3369.	1.5	14
11	Fiber optic fluorescence temperature sensors using up-conversion from rare-earth polymer composites. Optics Letters, 2019, 44, 1194.	1.7	18
12	Scaling photonic lanterns for space-division multiplexing. Scientific Reports, 2018, 8, 8897.	1.6	57
13	Random laser imaging of bovine pericardium under the uniaxial tensile test. Biomedical Optics Express, 2018, 9, 3523.	1.5	2
14	Optical trapping and micromanipulation with a photonic lantern-mode multiplexer. Optics Letters, 2018, 43, 1303.	1.7	19
15	Evaluation of Optical Access to the Brain in the Near Infrared Range with a Transparent Cranial Implant. , 2018, , .		4
16	Composite polymer membranes for laser-induced fluorescence thermometry. Optical Materials Express, 2018, 8, 3072.	1.6	3
17	Fiber optic temperature sensors with polymer-based fluorescent materials. , 2018, , .		0
18	Optical Trapping and Manipulation of Multiple Microparticles Using SDM Fibers. , 2018, , .		0

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19	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
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	Photothermal Effects and Applications of Polydimethylsiloxane Membranes with Carbon Nanoparticles. <i>Polymers</i> , 2016, 8, 84.	2.0	28
22	Nonlinear optical properties of dielectric nanocolloids: Particle size and concentration effects. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2016, 25, 1650048.	1.1	4
23	Photothermal lesions in soft tissue induced by optical fiber microheaters. <i>Biomedical Optics Express</i> , 2016, 7, 1138.	1.5	12
24	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
25	Characterization of optical nonlinearity and formation of Self-Collimated Beams in nanocolloids. , 2016, , .		1
26	Fabrication and Applications of Optical Fiber Micro-heaters. , 2016, , .		0
27	Photomechanical response of PDMS+CNP composite under IR irradiation detected by dynamic speckle. , 2016, , .		0
28	Photomechanical actuator of Ni-Ti shape memory alloy coated with a carbon composite. , 2016, , .		0
29	Fiber Coupled Optically Tunable Polymer/Glass Microring Resonators. , 2016, , .		1
30	An optopneumatic piston for microfluidics. <i>Lab on A Chip</i> , 2015, 15, 1335-1342.	3.1	4
31	Heat generation and conduction in PDMS-carbon nanoparticle membranes irradiated with optical fibers. <i>International Journal of Thermal Sciences</i> , 2015, 96, 12-22.	2.6	67
32	Controlled Deposition of Polymer Coatings on Cylindrical Photonic Devices. <i>Journal of Lightwave Technology</i> , 2015, 33, 176-182.	2.7	8
33	Photomechanical response of composites based on PDMS and carbon soot nanoparticles under IR laser irradiation. <i>Optical Materials Express</i> , 2015, 5, 1792.	1.6	21
34	Mechanical assessment of bovine pericardium using MÄ¼eller matrix imaging, enhanced backscattering and digital image correlation analysis. <i>Biomedical Optics Express</i> , 2015, 6, 2953.	1.5	6
35	Six mode selective fiber optic spatial multiplexer. <i>Optics Letters</i> , 2015, 40, 1663.	1.7	137
36	Microbubble Generation with Tapered Optical Fibers. , 2015, , .		1

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37	Fabrication Process for PDMS Polymer/Silica Long-Period Fiber Grating Sensors. IEEE Photonics Technology Letters, 2015, 27, 2150-2153.	1.3	7
38	Optical spatial solitons in bidisperse fluorescent nanocolloids. , 2015, , .		0
39	On the Motion of Carbon Nanotube Clusters near Optical Fiber Tips: Thermophoresis, Radiative Pressure, and Convection Effects. Langmuir, 2015, 31, 10066-10075.	1.6	8
40	Waveguides in colloidal nanosuspensions. , 2014, , .		2
41	Angular distribution of random laser emission. Optics Letters, 2014, 39, 655.	1.7	11
42	PDMS Laser-Induced Forward Transfer using a CD-DVD laser platform. , 2014, , .		0
43	Fiber optic Fabry-Perot sensor for surface tension analysis. Optics Express, 2014, 22, 3028.	1.7	21
44	Compact bubble clusters in Newtonian and non-Newtonian liquids. Physics of Fluids, 2014, 26, .	1.6	15
45	Thermocapillary Flow in Glass Tubes Coated with Photoresponsive Layers. Langmuir, 2014, 30, 5326-5336.	1.6	12
46	Analysis of Interfacial Properties of Confined Liquid-Glass Pairs Using Etched Optical Fibers. , 2014, , .		0
47	Functional Polymer Coatings for Photonic Devices. , 2014, , .		0
48	Enhanced backscattering measurements in bovine pericardium tensile tests. , 2014, , .		0
49	New perspectives for direct PDMS microfabrication using a CD-DVD laser. Lab on A Chip, 2013, 13, 4848.	3.1	24
50	All-Optical Broadband Variable Optical Attenuator Based on an As_2Se_3 Microwire. IEEE Photonics Technology Letters, 2013, 25, 697-700.	1.3	3
51	Evaluation of mechanical behavior of soft tissue by means of random laser emission. Review of Scientific Instruments, 2013, 84, 104301.	0.6	23
52	Fabrication of polymer Fabry-Perot fiber sensors using optical fiber microheaters. , 2013, , .		0
53	Laser induced deformation in polydimethylsiloxane membranes with embedded carbon nanopowder. Smart Materials and Structures, 2013, 22, 037001.	1.8	5
54	Power spectral distributions of pseudo-turbulent bubbly flows. Physics of Fluids, 2013, 25, .	1.6	42

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55	Optically Controlled Wavelength Tunable Fused Fiber Coupler. , 2013, , .		2
56	Laser Direct Microfabrication Using Light-Induced Nanoparticle Incandescence. , 2012, , .		0
57	Microbubble generation using fiber optic tips coated with nanoparticles. Optics Express, 2012, 20, 8732.	1.7	29
58	Angular study of the random laser emission. , 2012, , .		0
59	Laser Triggered Displacement of Embedded Carbon Microparticles in PDMS. , 2012, , .		0
60	Optically Driven All-Fiber Polarization Rotator. Journal of Lightwave Technology, 2011, 29, 1672-1677.	2.7	5
61	Nanoparticle coated optical fibers for single microbubble generation. Proceedings of SPIE, 2011, , .	0.8	1
62	Liquids analysis using back reflection single-mode fiber sensors. Proceedings of SPIE, 2011, , .	0.8	5
63	Low-cost and biocompatible long-period fiber gratings. , 2011, , .		1
64	Effects of scatterer size and concentration on the spectral features of dye-based random lasers. , 2011, , .		2
65	Characterization of a Low-Cost Long-Period Fiber Grating Induced by a Polymeric Microstructure. , 2011, , .		0
66	Polarization switched frequency shifted feedback fiber laser. , 2010, , .		0
67	Intra-cavity fiber laser polarization mode beating sensing. , 2010, , .		0
68	Optically controlled all-fiber polarization rotator. Proceedings of SPIE, 2010, , .	0.8	0
69	Single-mode optical fiber liquids analyzer. , 2010, , .		0
70	Optically driven deposition of nanostructures on optical fiber end faces. , 2010, , .		3
71	Front Matter: Volume 7839. Proceedings of SPIE, 2010, , .	0.8	1
72	Highly-sensitive Measurements of Changes in Density and Refractive Index of Air using Fiber Laser Polarization Mode Beating Techniques. , 2010, , .		2

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73	Single Polarization-Mode-Beating Frequency Fiber Laser. IEEE Photonics Technology Letters, 2009, 21, 537-539.	1.3	7
74	Multirate and Dual-Wavelength Semiconductor Fiber Laser. IEEE Photonics Technology Letters, 2009, 21, 808-810.	1.3	3
75	Highly-sensitive Intracavity Detection using Polarization Mode Beating Techniques. , 2009, , .		1
76	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
77	Multiwavelength and tunable regenerative laser resonator with passive self-pulsating action. , 2008, , .		0
78	All-optical clock recovery in a semiconductor fiber laser and a nonlinear optical loop modulator with wavelength-switching capability. , 2008, , .		0
79	Highly Nonlinear Fibers in All-Optical Modulators. AIP Conference Proceedings, 2008, , .	0.3	1
80	Multi-channel all-optical signal processing using a single multi-channel all-optical loop modulator. , 2008, , .		1
81	Tunable mode-locked semiconductor fiber laser using a nonlinear optical loop mirror. , 2008, , .		0
82	Multiwavelength self-pulsating fibre laser based on cascaded SPM spectral broadening and filtering. Proceedings of SPIE, 2008, , .	0.8	0
83	Polarization mode beating intracavity technique for fiber laser sensing. Proceedings of SPIE, 2008, , .	0.8	0
84	Modulation in optical fiber lasers using polarization feedback. , 2007, , .		0
85	Device for characterization of thermal effusivity of liquids using photothermal beam deflection. Review of Scientific Instruments, 2007, 78, 104901.	0.6	10
86	Intra-cavity fiber laser technique for high accuracy birefringence measurement. Optics Express, 2006, 14, 7594.	1.7	5
87	Fiber lasers with hybrid birefringence resonators. Optics and Lasers in Engineering, 2006, 44, 1027-1038.	2.0	1
88	High Sensitivity Detection Using Intra-Cavity Mode Beating. , 2006, , .		0
89	Programmable control system for wavelength tuning and stabilization of optical fiber lasers. Optical Engineering, 2005, 44, 044201.	0.5	0
90	Enhancement in sensitivity for fiber-optic torsion sensors. IEEE Sensors Journal, 2005, 5, 1332-1337.	2.4	1

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91	Polarization switching in an Er-doped fiber lasers using an intra-cavity electro-optical switch. , 2005, 6004, 165.		0
92	Intra-cavity polarization switching in optical fiber lasers. , 2004, , .		0
93	Technique for referencing of fiber-optic intensity-modulated sensors by use of counterpropagating signals. Optics Letters, 2004, 29, 1467.	1.7	14
94	Computer-controlled tunable fiber laser. , 2004, , .		0
95	<title>Superluminescent fiber laser sources for fiber optics sensors</title>. , 2004, , .		0
96	<title>Heat flux sensor based on photothermal beam deflection for thermal characterization of liquids</title>. , 2004, 5478, 274.		0
97	Prototype security system for Mexico City's light train crossings. , 2004, , .		0
98	Torsion sensors based on the fiber optic Malus Fabry-Perot interferometer. , 2004, , .		1
99	Matrix analysis for fiber lasers with hybrid birefringence resonators. , 2003, , .		0
100	Polarization switched optical fiber laser for AC optical nulling bridges. , 2003, 4833, 840.		0
101	Real-time, high-gain, computer controlled amplifier for optical detection systems. Review of Scientific Instruments, 2002, 73, 203-208.	0.6	1
102	Highly accurate method for single-mode fiber laser wavelength measurement. IEEE Photonics Technology Letters, 2002, 14, 83-85.	1.3	10
103	Multiplexed fiber-optic Bragg stack sensors (FOBSS) for elevated temperatures. IEEE Photonics Technology Letters, 2001, 13, 514-516.	1.3	7
104	Polarization effects in a high-birefringence elliptical fiber laser with a Bragg grating in a low-birefringence fiber. Applied Optics, 2000, 39, 972.	2.1	8
105	Silica-air double-clad optical fiber. IEEE Photonics Technology Letters, 2000, 12, 1007-1009.	1.3	4
106	<title>Gas sensors based on fiber laser intracavity spectroscopy (FLICS)</title>. , 1999, , .		4
107	All-fiber coherent beam combining of fiber lasers. Optics Letters, 1999, 24, 1814.	1.7	92
108	Fiber laser polarization tuning using a Bragg grating in a Hi-Bi fiber. IEEE Photonics Technology Letters, 1998, 10, 941-943.	1.3	56

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109	Functional Tapered Fiber Devices Using Polymeric Coatings. , 0, , .		0