

Julian M Estudillo-Ayala

List of Publications by Year in descending order

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164
papers

1,173
citations

361413

20
h-index

434195

31
g-index

165
all docs

165
docs citations

165
times ranked

902
citing authors

#	ARTICLE	IF	CITATIONS
1	Widely tunable erbium-doped fiber laser based on multimode interference effect. Optics Express, 2010, 18, 591.	3.4	110
2	Supercontinuum generation in a standard fiber pumped by noise-like pulses from a figure-eight fiber laser. Laser Physics, 2012, 22, 221-226.	1.2	69
3	High energy noise-like pulsing in a double-clad Er/Yb figure-of-eight fiber laser. Optics Express, 2016, 24, 13778.	3.4	61
4	Laser Temperature Sensor Based on a Fiber Bragg Grating. IEEE Photonics Technology Letters, 2015, 27, 1141-1144.	2.5	56
5	A Core-Offset Mach Zehnder Interferometer Based on A Non-Zero Dispersion-Shifted Fiber and Its Torsion Sensing Application. Sensors, 2016, 16, 856.	3.8	42
6	Measurements of beat length in short low-birefringence fibers. Optics Letters, 2001, 26, 1134.	3.3	41
7	Highly sensitive curvature and displacement sensing setup based on an all fiber micro Fabry-Perot interferometer. Optics Communications, 2013, 308, 289-292.	2.1	40
8	Switchable multi-wavelength laser based on a core-offset Mach-Zehnder interferometer with non-zero dispersion-shifted fiber. Optics and Laser Technology, 2018, 104, 49-55.	4.6	39
9	An All Fiber Intrinsic Fabry-Perot Interferometer Based on an Air-Microcavity. Sensors, 2013, 13, 6355-6364.	3.8	32
10	Switchable and multi-wavelength linear fiber laser based on Fabry-Perot and Mach-Zehnder interferometers. Optics Communications, 2016, 374, 39-44.	2.1	31
11	Switchable and tunable multi-wavelength fiber laser based on a core-offset aluminum coated Mach-Zehnder interferometer. Optics and Laser Technology, 2020, 125, 106039.	4.6	30
12	A tunable multi-wavelength laser based on a Mach-Zehnder interferometer with photonic crystal fiber. Laser Physics, 2013, 23, 055105.	1.2	29
13	A tunable multi-wavelength erbium doped fiber laser based on a Mach-Zehnder interferometer and photonic crystal fiber. Laser Physics, 2013, 23, 125103.	1.2	28
14	All-Fiber Curvature Sensor Based on an Abrupt Tapered Fiber and a Fabry-Perot Interferometer. IEEE Photonics Technology Letters, 2014, 26, 2213-2216.	2.5	27
15	Torsion sensing setup based on a three beam path Mach-Zehnder interferometer. Microwave and Optical Technology Letters, 2015, 57, 1857-1860.	1.4	26
16	Multi-wavelength fiber laser based on a fiber Fabry-Perot interferometer. Applied Physics B: Lasers and Optics, 2015, 121, 407-412.	2.2	25
17	Curvature Sensing Setup Based on a Fiber Laser and a Long-Period Fiber Grating. IEEE Photonics Technology Letters, 2019, 31, 1265-1268.	2.5	24
18	Numerical analysis of a broadband spectrum generated in a standard fiber by noise-like pulses from a passively mode-locked fiber laser. Optics Communications, 2012, 285, 1915-1919.	2.1	22

#	ARTICLE	IF	CITATIONS
19	Measurement of beat length in short low-birefringence fibers using the fiber optical loop mirror. Optics Communications, 2003, 217, 211-219.	2.1	21
20	Wavelength band-rejection filters based on optical fiber fattening by fusion splicing. Optics and Laser Technology, 2008, 40, 671-675.	4.6	21
21	High sensitivity strain sensors based on single-mode-fiber core-offset Mach-Zehnder interferometers. Optics and Lasers in Engineering, 2018, 107, 202-206.	3.8	20
22	Modified All-Fiber Fabry-Perot Interferometer and Its Refractive Index, Load, and Temperature Analyses. IEEE Photonics Journal, 2015, 7, 1-9.	2.0	19
23	Fiber Optic Fabry-Perot Micro-Displacement Sensor Based on Low-Cost Polymer Film. IEEE Sensors Journal, 2020, 20, 4719-4725.	4.7	19
24	Experimental study on a broad and flat supercontinuum spectrum generated through a system of two PCFs. Laser Physics Letters, 2013, 10, 075101.	1.4	17
25	Flat supercontinuum generation by a F8L in high-energy harmonic noise-like pulsing regime. Laser Physics Letters, 2016, 13, 125104.	1.4	17
26	Multi-wavelength Er-Yb-doped fibre ring laser using a double-pass Mach-Zehnder interferometer with a Sagnac interferometer. Optics and Laser Technology, 2021, 139, 106994.	4.6	17
27	Generation of long broadband pulses with a figure-eight fiber laser. Laser Physics, 2011, 21, 1518-1524.	1.2	16
28	Mach-Zehnder all-fiber interferometer using two in-series fattened fiber gratings. Optical Review, 2008, 15, 230-235.	2.0	14
29	Stable Multi-Wavelength Thulium-Doped All-Fiber Laser Incorporating a Multi-Cavity Fabry-Perot Filter. IEEE Photonics Journal, 2019, 11, 1-7.	2.0	14
30	Generation of a spectrum with high flatness and high bandwidth in a short length of telecom fiber using microchip laser. Optics Communications, 2013, 292, 126-130.	2.1	13
31	An Architecture for Measuring Joint Angles Using a Long Period Fiber Grating-Based Sensor. Sensors, 2014, 14, 24483-24501.	3.8	13
32	A multi-wavelength erbium-doped fiber ring laser using an intrinsic Fabry-Perot interferometer. Laser Physics, 2016, 26, 105105.	1.2	13
33	Analytical Modelling of a Refractive Index Sensor Based on an Intrinsic Micro Fabry-Perot Interferometer. Sensors, 2015, 15, 26128-26142.	3.8	10
34	Symmetric and Asymmetric Core-Offset Mach-Zehnder Interferometer Torsion Sensors. IEEE Photonics Technology Letters, 2017, , 1-1.	2.5	10
35	Tip Fiber-Optic Intermodal Interferometer for Refractive Index Sensing. IEEE Photonics Technology Letters, 2018, 30, 15-18.	2.5	10
36	Multi-mode all Fiber Interferometer based on Fabry-Perot Multi-cavity and its Temperature Response. Optik, 2017, 147, 232-239.	2.9	9

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37	Highly Sensitive Fiber Ring Laser Sensor for Curvature Using a Modal Interferometer. IEEE Sensors Journal, 2020, 20, 9864-9870.	4.7	9
38	Analysis of a Sagnac interferometer with low-birefringence twisted fiber. Optics and Lasers in Engineering, 2003, 39, 635-643.	3.8	8
39	High Temperature Optical Fiber Sensor Based on Compact Fattened Long-Period Fiber Gratings. Sensors, 2013, 13, 3028-3038.	3.8	8
40	Magnetic Field Sensing Based on Bi-Tapered Optical Fibers Using Spectral Phase Analysis. Sensors, 2017, 17, 2393.	3.8	8
41	Low birefringence measurement in optical fibres. Electronics Letters, 1999, 35, 332.	1.0	7
42	Nonlinear optical characterization of ionic liquids of 1-methylpyrrolidine family. Proceedings of SPIE, 2012, , .	0.8	7
43	Erbium Ring Fiber Laser Cavity Based on Tip Modal Interferometer and Its Tunable Multi-Wavelength Response for Refractive Index and Temperature. Applied Sciences (Switzerland), 2018, 8, 1337.	2.5	7
44	Polarization Modulation Instability in All-Normal Dispersion Microstructured Optical Fibers With Quasi-Continuous Pump. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	7
45	Low-pressure and liquid level fiber-optic sensor based on polymeric Fabry-Perot cavity. Optical and Quantum Electronics, 2021, 53, 237.	3.3	7
46	Dynamic of total internal reflection (2+1)D bright beams on photorefractive SBN61:Ce crystal. Optics Express, 2012, 20, 754.	3.4	6
47	Lateral force sensing arrangement based on an all fiber Fabry-Perot interferometer. Optik, 2015, 126, 5767-5770.	2.9	6
48	Low-pressure fiber-optic sensor by polyester Fabry-Perot cavity and its phase signal processing analysis. Sensors and Actuators A: Physical, 2020, 315, 112338.	4.1	6
49	Generation of burst pulses through multimodal interference in a passively mode-locked ytterbium fibre-ring laser. Laser Physics Letters, 2020, 17, 065106.	1.4	6
50	U-Shaped Plastic Fiber Optic Sensor for Measuring Adulteration in Liquids via RGB Color Changes. , 2021, 5, 1-4.		6
51	Fabrication of Mach-Zehnder interferometers with conventional fiber optics in detection applications of micro-displacement and liquids. Proceedings of SPIE, 2012, , .	0.8	4
52	Determination of magnetic field using a Fabry-Perot cavity containing novel nanoparticles. Instrumentation Science and Technology, 2017, 45, 392-403.	1.8	4
53	A dual modality optical fiber sensor. Journal of Modern Optics, 2018, 65, 342-347.	1.3	4
54	All Single-Mode-Fiber Supercontinuum Source Setup for Monitoring of Multiple Gases Applications. Sensors, 2020, 20, 3239.	3.8	4

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55	PC-Based systems for experiments in optical characterization of materials. Journal of Physics: Conference Series, 2011, 274, 012059.	0.4	3
56	RGB color sensor implemented with LEDs. Proceedings of SPIE, 2015, , .	0.8	3
57	Torsion sensing setup based on a Mach-Zehnder interferometer with photonics crystal fiber. Proceedings of SPIE, 2017, , .	0.8	3
58	Automated Data Acquisition System Using a Neural Network for Prediction Response in a Mode-Locked Fiber Laser. Electronics (Switzerland), 2020, 9, 1181.	3.1	3
59	A curvature sensing setup based on an asymmetric concatenated tapered Mach-Zehnder interferometer. Optics and Laser Technology, 2020, 132, 106490.	4.6	3
60	<title>Implementation of a laser beam analyzer using the image acquisition card IMAQ (NI)</title> . , 2001, , .		2
61	Physico-chemical Characterization of 4-(4-Pentenyl)benzotrifluoride. Molecular Crystals and Liquid Crystals, 2008, 489, 148/[474]-155/[481].	0.9	2
62	Erbium-doped tunable fiber laser. Proceedings of SPIE, 2008, , .	0.8	2
63	Study of temperature sensing in a novel fattened electric arc induced LPFG. , 2009, , .		2
64	Supercontinuum generation in standard telecom fiber using picoseconds pulses. Proceedings of SPIE, 2012, , .	0.8	2
65	Torsion sensor using a Mach-Zehnder interferometer. Proceedings of SPIE, 2013, , .	0.8	2
66	Generation of stable high order harmonic noise-like pulses in a passively mode-locked double clad fiber ring laser. , 2015, , .		2
67	Analysis of the effects of macrobend losses in broadband spectrum filtering. Laser Physics Letters, 2015, 12, 045103.	1.4	2
68	Tailoring the structural and magnetic property of nanocrystalline $Mn_xZn_{1-x}Fe_2O_4$ synthesized by citrate route method. MRS Advances, 2017, 2, 2763-2768.	0.9	2
69	Highly stable multi-wavelength erbium-doped fiber linear laser based on modal interference. Laser Physics, 2018, 28, 035101.	1.2	2
70	Reconfigurable dual-band to single-band filter based on a composite right/left-handed resonator. , 2018, , .		2
71	<title>Design of an interferogram fringe counter based on LabVIEW</title> . , 2001, 4419, 309.		1
72	Glucose Optical Fiber Sensor Based on Sol-Gel Technique with Ruthenium (III) Chloride Hydrate and Glucose Oxidase Enzyme. AIP Conference Proceedings, 2006, , .	0.4	1

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73	Stimulated Raman scattering and broadband spectrum generation of nanosecond pulses from a directly modulated DFB laser. , 2006, 6102, 443.		1
74	Nonlinear optical correction of the pulse shape from a directly modulated DFB laser. Optics Communications, 2008, 281, 824-830.	2.1	1
75	Evolution of bright periodic lattices in negative nonlinear medium.. AIP Conference Proceedings, 2008, , .	0.4	1
76	Viability analysis of a dual gas sensor based on a single Fabry-Perot interferometer. Proceedings of SPIE, 2009, , .	0.8	1
77	pH biosensor with plastic fiber optic doped with carbone nanotubes used sol-gel technique. Proceedings of SPIE, 2010, , .	0.8	1
78	Torsion sensor with an Yb-doped photonic crystal fiber based on a Mach-Zehnder Interferometer. , 2014, , .		1
79	Numerical analysis of the supercontinuum spectrum generation in a couple of photonic crystal fibers with different structure by using the RK4IP method. Proceedings of SPIE, 2016, , .	0.8	1
80	Application of the RK4IP Method for the Numerical Study of Noise-Like Pulses in Supercontinuum Generation. , 2018, , .		1
81	A Novel Low-Cost Synchronous/Asynchronous Microcontroller-Based Pulsed Laser. Electronics (Switzerland), 2019, 8, 489.	3.1	1
82	Photodecomposition of uric-acid crystals by using a mode-locked and broadband spectrum Ytterbium fiber ring laser. Optics Communications, 2020, 475, 126242.	2.1	1
83	Reconfigurable dual-band to single-band filter based on a composite right/left-handed resonator. Journal of Nanophotonics, 2019, 13, 1.	1.0	1
84	Photochemical decomposition of uric acid crystals by ultra-short laser pulses. , 2020, , .		1
85	Highly Efficient Self-Q-Switched Erbium-Ytterbium Fiber Laser Operating at High Output Powers. , 2016, , .		1
86	Multi-wavelength Fiber Laser Temperature Sensor Based on Modal Fiber Interferometer. , 2018, , .		1
87	Automated data acquisition system for the study of the characteristics of temporal-spectral evolution in an F8L. , 2019, , .		1
88	<title>Stimulated Raman scattering in optical fiber with high-loss produced by bending</title>. , 1999, 3749, 711.		0
89	<title>Ultralow-birefringence measurement in optical fibers by use of a fiber optical loop mirror</title>. , 1999, 3749, 126.		0
90	<title>Nonlinear fiber optic loop mirror with low-birefringence twisted fiber in the loop</title>. , 1999, 3572, 151.		0

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91	Self-bending of spatial solitons in nonlinear interface governed by drift and difussion. , 0, , .		0
92	Optical devices based on spatial bright solitons with controllable outputs. , 0, , .		0
93	Linear and nonlinear optical characterization of PMMA clusters with Ni nanoparticles dispersed. , 2003, 4833, 617.		0
94	All optical switching by total internal reflection in nonlinear interface of (2+1)D beams in SBN61:Ce. , 2003, , .		0
95	Spectral filter for the stokes suppression in the stimulated raman scattering. , 2003, , .		0
96	Measurements of beat length in short low-birefringence fibers. , 2003, , .		0
97	Optical sensed image fusion based on neural networks. , 2003, 4833, 121.		0
98	Analysis of a low-birefringence fiber Sagnac interferometer by twisted fiber. , 2003, , .		0
99	<title>Control in LabView of the monochromator DK240 and measurement of absorption and emission of erbium-doped Fiber</title>. , 2004, , .		0
100	pH sensor based on sol-gel silica layer deposited on a plastic optical fiber with blue bromophenol. , 2004, , .		0
101	<title>Twist in the center of the loop of Sagnac interferometer of optical fiber to determine the beat length</title>. , 2004, , .		0
102	<title>Non-optical loop mirror inducing birefringence bias macro bendings in the loop</title>. , 2004, , .		0
103	<title>Dependence of the polarization of multiple dark waveguides in nonlinear liquids</title>. , 2004, 5622, 491.		0
104	Stochastic optical solitons in nonlinear media type kerr. , 0, , .		0
105	Optical fiber current sensor based on a magnetic structure. , 2005, , .		0
106	Periodic structures by amplitude mask 2D in nonlinear liquid medium CS/sub 2/. , 0, , .		0
107	Photonic Band-Gaps in Periodic Lattices Arrays. , 2006, , .		0
108	Design of a high voltage source to fabricate fiber optic arc induced gratings. , 2007, , .		0

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109	Supercontinuum generation enhanced by conventional Raman amplification at pumping by nanosecond pulses from a directly modulated DFB laser. , 2007, , .		0
110	Theoretical study of optical processes in nonlinear photonic crystals devices. , 2007, , .		0
111	Evolution of bright to dark photonic lattices in nonlinear medium type Kerr. , 2008, , .		0
112	Nonlinear optical characterization of 4-(4-pentenloxy)benzonitrile. , 2008, , .		0
113	Organic-inorganic hybrid glass: non-linear optical properties. AIP Conference Proceedings, 2008, , .	0.4	0
114	Telecomm tunable fiber laser based on multimode interference effect. , 2008, , .		0
115	Optical nonlinearity effects in 4-(4-pentenloxy) benzonitrile. , 2008, , .		0
116	Modes in a long period grating fabricated on dispersion shifted fiber. , 2009, , .		0
117	Fabrication and characterization of long period fiber gratings with an alternative electric arc method to be applied as optical fiber sensors. Proceedings of SPIE, 2010, , .	0.8	0
118	Polarization study on solid core photonic crystal fibers partially sedimented with polyethylene micro-spheres and carbon nanotubes. , 2010, , .		0
119	Nonlinear photonic crystal for optical power limiting. , 2010, , .		0
120	Theoretical and experimental optical properties in three ionic liquids of [BMIM] family. , 2010, , .		0
121	Coupling efficiency and transmission through hollow-core photonic bandgap fibers. Proceedings of SPIE, 2010, , .	0.8	0
122	Induced refraction rings from cumarine materials. , 2010, , .		0
123	Loop effect on Long-Period Fiber Gratings produced by electric arc. , 2011, , .		0
124	Influence of losses induced by macrobends in the supercontinuum generation using standard fiber. , 2012, , .		0
125	Nonlinear optical properties of Au nanoparticles in solution. Proceedings of SPIE, 2013, , .	0.8	0
126	Determination of refraction nonlinear index, for effect thermal, of solutions with nanoparticles of gold. Proceedings of SPIE, 2013, , .	0.8	0

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127	Experimental analysis of the interaction between modulation instability and stimulated raman scattering in short lengths of optical fibers. , 2014, , .		0
128	Characterization of long-period fiber grating as load sensing. Proceedings of SPIE, 2014, , .	0.8	0
129	Mechanically induced long-period gratings in polarization maintaining photonic crystal fiber with a supercontinuum generation source. , 2014, , .		0
130	Analysis of a low-cost technique for the generation of broadband spectra with adjustable spectral width in optical fibers. Proceedings of SPIE, 2015, , .	0.8	0
131	Fabrication and characterization of a non-zero dispersion-shifted mechanically-induced long-period grating for optical fiber sensing. , 2015, , .		0
132	Generation of supercontinuum light in micro-structured fiber and polarization study at different wavelengths. Proceedings of SPIE, 2016, , .	0.8	0
133	Polarization study of a supercontinuum light source for different wavelengths through a photonic crystal fiber. , 2016, , .		0
134	Multi-parameter fiber optic sensing setup based on spectral-overlap using Fabry-Perot interferometers. , 2017, , .		0
135	Temperature sensing setup based on an aluminum coated Mach-Zehnder Interferometer. , 2017, , .		0
136	A switchable fiber laser based on an all-fiber Fabry-Perot filter. Proceedings of SPIE, 2017, , .	0.8	0
137	Numerical Analysis of Chaotic Dynamics Produced in a Photonic Crystal Fibers. , 2018, , .		0
138	<i>Microwave-assisted hydrothermal treatments in <i>Chihuahua <i>apples against <i>Penicillium expansum. , 2019, , .		0
139	<i>Microwave-assisted hydrothermal treatments against pests in sweet potatoes<i>Introduction. , 2019, , .		0
140	AC Measurement by Using an Optical Fiber Sensor. Telecommunications and Radio Engineering (English) Tj ETQq0 0.4 rgBT /Qverlock 10	0.4	0
141	Optical correction of the pulse shape from a directly modulated DFB laser. , 2005, , .		0
142	Demultiplexer Based on Photonic Crystals. Telecommunications and Radio Engineering (English) Tj ETQq0 0.0 rgBT /Qverlock 10 Tf 50 1	0.4	0
143	Evolution of Broadband Spectrum Generation and Stimulated Raman Scattering from Nanosecond Pump Pulses in Single-Mode Optical Fiber. , 2006, , .		0
144	Noise Suppression ASE of Erbium Doper Fiber Laser by Means of a Filter Optical Fiber Fattening. , 2008, , .		0

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145	Tunable Broadband in Supercontinuum Spectrum Based on Polarization Effects. , 2014, , .		0
146	Supercontinuum light source with adjustable spectral width by inducing mechanical stresses in photonic crystal fiber. Optica Pura Y Aplicada, 2014, 47, 1-5.	0.1	0
147	L-Band Switchable Multiwavelength Fiber Laser Using a Novel Photonic Crystal Fiber. , 2016, , .		0
148	A dual tapered Mach-Zehnder interferometer for magnetic field sensing. , 2017, , .		0
149	Numerical Study of Spatio-Temporal Evolution of Chaotic Effects in the Generation of Broad Spectra. , 2018, , .		0
150	Edible oils sensing setup based on a core-offset Mach-Zehnder Interferometer with Single Mode Fiber. , 2018, , .		0
151	Experimental Supercontinuum Generation with Combination of Different Types of Optical Fibers. , 2018, , .		0
152	Laser Temperature Sensor Based on a Core-offset Aluminum Coated Mach-Zehnder Interferometer. , 2018, , .		0
153	Study of nonlinear liquid effects into ytterbium-doped fiber laser for multi-wavelength generation. , 2018, , .		0
154	Multiresolution analysis signal in a three beam path Mach-Zehnder interferometer based on a discrete wavelet transform. , 2018, , .		0
155	The polarization effects of the pumping source of a ring tunable wavelength laser Er-doped fiber. , 2018, , .		0
156	Tunable Linear Fiber Laser Cavity Based on a Twisted Mechanical Long Period Grating. Revista Mexicana De FÁsica, 2018, 64, 615-618.	0.4	0
157	Design of a Fabry-Perot interferometer based on silicon wafer for dielectric gas sensing applications. , 2018, , .		0
158	Obtaining a broad spectrum source in the visible spectrum by means of 2 conventional thin core fibers. , 2019, , .		0
159	Experimental study of the spectral width and flatness of a supercontinuum spectrum with several setups of optical fiber. , 2019, , .		0
160	Graphic User Interface for Modeling States of Polarization in Fiber Optics. Computacion Y Sistemas, 2019, 23, .	0.3	0
161	Ring erbium doped fiber laser cavity for multi-wavelength generation based on inline modal fiber interferer. , 2019, , .		0
162	Multi-wavelength ring fiber laser cavity based on loop modal fiber optic interferometer. , 2019, , .		0

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163	Modeling three-dimensional transmission of a NOLM in continuous-wave and pulsed regimes for optical communications. , 2019, , .		0
164	RGB optoelectronic device determine the refractive index in liquid solutions. , 2019, , .		0