

# 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	Low-pressure and liquid level fiber-optic sensor based on polymeric Fabry-Perot cavity. Optical and Quantum Electronics, 2021, 53, 237.	3.3	7
2	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
3	U-Shaped Plastic Fiber Optic Sensor for Measuring Adulteration in Liquids via RGB Color Changes. , 2021, 5, 1-4.		6
4	Fiber Optic Fabry-Perot Micro-Displacement Sensor Based on Low-Cost Polymer Film. IEEE Sensors Journal, 2020, 20, 4719-4725.	4.7	19
5	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
6	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
7	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
8	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
9	A curvature sensing setup based on an asymmetric concatenated tapered Mach-Zehnder interferometer. Optics and Laser Technology, 2020, 132, 106490.	4.6	3
10	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
11	Highly Sensitive Fiber Ring Laser Sensor for Curvature Using a Modal Interferometer. IEEE Sensors Journal, 2020, 20, 9864-9870.	4.7	9
12	All Single-Mode-Fiber Supercontinuum Source Setup for Monitoring of Multiple Gases Applications. Sensors, 2020, 20, 3239.	3.8	4
13	Photochemical decomposition of uric acid crystals by ultra-short laser pulses. , 2020, , .		1
14	Polarization Modulation Instability in All-Normal Dispersion Microstructured Optical Fibers With Quasi-Continuous Pump. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	7
15	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
16	A Novel Low-Cost Synchronous/Asynchronous Microcontroller-Based Pulsed Laser. Electronics (Switzerland), 2019, 8, 489.	3.1	1
17	Microwave-assisted hydrothermal treatments in Chihuahua apples against Penicillium expansum. , 2019, , .		0
18	Microwave-assisted hydrothermal treatments against pests in sweet potatoesIntroduction. , 2019, , .		0

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19	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
20	Reconfigurable dual-band to single-band filter based on a composite right/left-handed resonator. Journal of Nanophotonics, 2019, 13, 1.	1.0	1
21	Obtaining a broad spectrum source in the visible spectrum by means of 2 conventional thin core fibers. , 2019, , .		0
22	Experimental study of the spectral width and flatness of a supercontinuum spectrum with several setups of optical fiber. , 2019, , .		0
23	Graphic User Interface for Modeling States of Polarization in Fiber Optics. Computacion Y Sistemas, 2019, 23, .	0.3	0
24	Ring erbium doped fiber laser cavity for multi-wavelength generation based on inline modal fiber interferer. , 2019, , .		0
25	Multi-wavelength ring fiber laser cavity based on loop modal fiber optic interferometer. , 2019, , .		0
26	Modeling three-dimensional transmission of a NOLM in continuous-wave and pulsed regimes for optical communications. , 2019, , .		0
27	RGB optoelectronic device determine the refractive index in liquid solutions. , 2019, , .		0
28	Automated data acquisition system for the study of the characteristics of temporal-spectral evolution in an F8L. , 2019, , .		1
29	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
30	Tip Fiber-Optic Intermodal Interferometer for Refractive Index Sensing. IEEE Photonics Technology Letters, 2018, 30, 15-18.	2.5	10
31	Highly stable multi-wavelength erbium-doped fiber linear laser based on modal interference. Laser Physics, 2018, 28, 035101.	1.2	2
32	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
33	A dual modality optical fiber sensor. Journal of Modern Optics, 2018, 65, 342-347.	1.3	4
34	Numerical Analysis of Chaotic Dynamics Produced in a Photonic Crystal Fibers. , 2018, , .		0
35	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
36	Application of the RK4IP Method for the Numerical Study of Noise-Like Pulses in Supercontinuum Generation. , 2018, , .		1

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37	Multi-wavelength Fiber Laser Temperature Sensor Based on Modal Fiber Interferometer. , 2018, , .		1
38	Numerical Study of Spatio-Temporal Evolution of Chaotic Effects in the Generation of Broad Spectra. , 2018, , .		0
39	Edible oils sensing setup based on a core-offset Mach-Zehnder Interferometer with Single Mode Fiber. , 2018, , .		0
40	Experimental Supercontinuum Generation with Combination of Different Types of Optical Fibers. , 2018, , .		0
41	Laser Temperature Sensor Based on a Core-offset Aluminum Coated Mach-Zehnder Interferometer. , 2018, , .		0
42	Study of nonlinear liquid effects into ytterbium-doped fiber laser for multi-wavelength generation. , 2018, , .		0
43	Reconfigurable dual-band to single-band filter based on a composite right/left-handed resonator. , 2018, , .		2
44	Multiresolution analysis signal in a three beam path Mach-Zehnder interferometer based on a discrete wavelet transform. , 2018, , .		0
45	The polarization effects of the pumping source of a ring tunable wavelength laser Er-doped fiber. , 2018, , .		0
46	Tunable Linear Fiber Laser Cavity Based on a Twisted Mechanical Long Period Grating. Revista Mexicana De F�sica, 2018, 64, 615-618.	0.4	0
47	Design of a Fabry-Perot interferometer based on silicon wafer for dielectric gas sensing applications. , 2018, , .		0
48	Multi-parameter fiber optic sensing setup based on spectral-overlap using Fabry-Perot interferometers. , 2017, , .		0
49	Temperature sensing setup based on an aluminum coated Mach-Zehnder Interferometer. , 2017, , .		0
50	A switchable fiber laser based on an all-fiber Fabry-Perot filter. Proceedings of SPIE, 2017, , .	0.8	0
51	Torsion sensing setup based on a Mach-Zehnder interferometer with photonics crystal fiber. Proceedings of SPIE, 2017, , .	0.8	3
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	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
54	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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55	Symmetric and Asymmetric Core-Offset Mach-Zehnder Interferometer Torsion Sensors. IEEE Photonics Technology Letters, 2017, , 1-1.	2.5	10
56	Magnetic Field Sensing Based on Bi-Tapered Optical Fibers Using Spectral Phase Analysis. Sensors, 2017, 17, 2393.	3.8	8
57	A dual tapered Mach-Zehnder interferometer for magnetic field sensing. , 2017, , .		0
58	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
59	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
60	Flat supercontinuum generation by a F8L in high-energy harmonic noise-like pulsing regime. Laser Physics Letters, 2016, 13, 125104.	1.4	17
61	Generation of supercontinuum light in micro-structured fiber and polarization study at different wavelengths. Proceedings of SPIE, 2016, , .	0.8	0
62	A multi-wavelength erbium-doped fiber ring laser using an intrinsic Fabry-Perot interferometer. Laser Physics, 2016, 26, 105105.	1.2	13
63	Switchable and multi-wavelength linear fiber laser based on Fabry-Perot and Mach-Zehnder interferometers. Optics Communications, 2016, 374, 39-44.	2.1	31
64	High energy noise-like pulsing in a double-clad Er/Yb figure-of-eight fiber laser. Optics Express, 2016, 24, 13778.	3.4	61
65	Polarization study of a supercontinuum light source for different wavelengths through a photonic crystal fiber. , 2016, , .		0
66	Highly Efficient Self-Q-Switched Erbium-Ytterbium Fiber Laser Operating at High Output Powers. , 2016, , .		1
67	L-Band Switchable Multiwavelength Fiber Laser Using a Novel Photonic Crystal Fiber. , 2016, , .		0
68	Lateral force sensing arrangement based on an all fiber Fabry-Perot interferometer. Optik, 2015, 126, 5767-5770.	2.9	6
69	Analytical Modelling of a Refractive Index Sensor Based on an Intrinsic Micro Fabry-Perot Interferometer. Sensors, 2015, 15, 26128-26142.	3.8	10
70	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
71	Torsion sensing setup based on a three beam path Mach-Zehnder interferometer. Microwave and Optical Technology Letters, 2015, 57, 1857-1860.	1.4	26
72	Generation of stable high order harmonic noise-like pulses in a passively mode-locked double clad fiber ring laser. , 2015, , .		2

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73	Analysis of the effects of macrobend losses in broadband spectrum filtering. Laser Physics Letters, 2015, 12, 045103.	1.4	2
74	RGB color sensor implemented with LEDs. Proceedings of SPIE, 2015, , .	0.8	3
75	Fabrication and characterization of a non-zero dispersion-shifted mechanically-induced long-period grating for optical fiber sensing. , 2015, , .		0
76	Laser Temperature Sensor Based on a Fiber Bragg Grating. IEEE Photonics Technology Letters, 2015, 27, 1141-1144.	2.5	56
77	Modified All-Fiber Fabry-Perot Interferometer and Its Refractive Index, Load, and Temperature Analyses. IEEE Photonics Journal, 2015, 7, 1-9.	2.0	19
78	Multi-wavelength fiber laser based on a fiber Fabry-Perot interferometer. Applied Physics B: Lasers and Optics, 2015, 121, 407-412.	2.2	25
79	An Architecture for Measuring Joint Angles Using a Long Period Fiber Grating-Based Sensor. Sensors, 2014, 14, 24483-24501.	3.8	13
80	Torsion sensor with an Yb-doped photonic crystal fiber based on a Mach-Zehnder Interferometer. , 2014, , .		1
81	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
82	Experimental analysis of the interaction between modulation instability and stimulated raman scattering in short lengths of optical fibers. , 2014, , .		0
83	Characterization of long-period fiber grating as load sensing. Proceedings of SPIE, 2014, , .	0.8	0
84	Mechanically induced long-period gratings in polarization maintaining photonic crystal fiber with a supercontinuum generation source. , 2014, , .		0
85	Tunable Broadband in Supercontinuum Spectrum Based on Polarization Effects. , 2014, , .		0
86	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
87	An All Fiber Intrinsic Fabry-Perot Interferometer Based on an Air-Microcavity. Sensors, 2013, 13, 6355-6364.	3.8	32
88	A tunable multi-wavelength laser based on a Mach-Zehnder interferometer with photonic crystal fiber. Laser Physics, 2013, 23, 055105.	1.2	29
89	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
90	High Temperature Optical Fiber Sensor Based on Compact Fattened Long-Period Fiber Gratings. Sensors, 2013, 13, 3028-3038.	3.8	8

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91	Highly sensitive curvature and displacement sensing setup based on an all fiber micro Fabry-Pérot interferometer. Optics Communications, 2013, 308, 289-292.	2.1	40
92	Nonlinear optical properties of Au nanoparticles in solution. Proceedings of SPIE, 2013, , .	0.8	0
93	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
94	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
95	Determination of refraction nonlinear index, for effect thermal, of solutions with nanoparticles of gold. Proceedings of SPIE, 2013, , .	0.8	0
96	Torsion sensor using a Mach-Zehnder interferometer. Proceedings of SPIE, 2013, , .	0.8	2
97	Dynamic of total internal reflection (2+1)D bright beams on photorefractive SBN61:Ce crystal. Optics Express, 2012, 20, 754.	3.4	6
98	Fabrication of Mach-Zehnder interferometers with conventional fiber optics in detection applications of micro-displacement and liquids. Proceedings of SPIE, 2012, , .	0.8	4
99	Influence of losses induced by macrobends in the supercontinuum generation using standard fiber. , 2012, , .		0
100	Supercontinuum generation in standard telecom fiber using picoseconds pulses. Proceedings of SPIE, 2012, , .	0.8	2
101	Nonlinear optical characterization of ionics liquids of 1-methylpyrrolidine family. Proceedings of SPIE, 2012, , .	0.8	7
102	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
103	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
104	Loop effect on Long-Period Fiber Gratings produced by electric arc. , 2011, , .		0
105	Generation of long broadband pulses with a figure-eight fiber laser. Laser Physics, 2011, 21, 1518-1524.	1.2	16
106	PC-Based systems for experiments in optical characterization of materials. Journal of Physics: Conference Series, 2011, 274, 012059.	0.4	3
107	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
108	Polarization study on solid core photonic crystal fibers partially sedimented with polyethylene micro-spheres and carbon nanotubes. , 2010, , .		0

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109	Nonlinear photonic crystal for optical power limiting. , 2010, , .		0
110	Theoretical and experimental optical properties in three ionic liquids of [BMIM] family. , 2010, , .		0
111	Widely tunable erbium-doped fiber laser based on multimode interference effect. Optics Express, 2010, 18, 591.	3.4	110
112	pH biosensor with plastic fiber optic doped with carbone nanotubes used sol-gel technique. Proceedings of SPIE, 2010, , .	0.8	1
113	Coupling efficiency and transmission through hollow-core photonic bandgap fibers. Proceedings of SPIE, 2010, , .	0.8	0
114	Induced refraction rings from cumarine materials. , 2010, , .		0
115	Study of temperature sensing in a novel fattened electric arc induced LPFG. , 2009, , .		2
116	Viability analysis of a dual gas sensor based on a single Fabry-Perot interferometer. Proceedings of SPIE, 2009, , .	0.8	1
117	Modes in a long period grating fabricated on dispersion shifted fiber. , 2009, , .		0
118	Mach-Zehnder all-fiber interferometer using two in-series fattened fiber gratings. Optical Review, 2008, 15, 230-235.	2.0	14
119	Nonlinear optical correction of the pulse shape from a directly modulated DFB laser. Optics Communications, 2008, 281, 824-830.	2.1	1
120	Wavelength band-rejection filters based on optical fiber fattening by fusion splicing. Optics and Laser Technology, 2008, 40, 671-675.	4.6	21
121	Evolution of bright to dark photonic lattices in nonlinear medium type Kerr. , 2008, , .		0
122	Nonlinear optical characterization of 4-(4-pentenyloxy)benzotrile. , 2008, , .		0
123	Physico-chemical Characterization of 4-(4-Pentenyloxy)Benzotrile. Molecular Crystals and Liquid Crystals, 2008, 489, 148/[474]-155/[481].	0.9	2
124	Evolution of bright periodic lattices in negative nonlinear medium.. AIP Conference Proceedings, 2008, , .	0.4	1
125	Organic-inorganic hybrid glass: non-linear optical properties. AIP Conference Proceedings, 2008, , .	0.4	0
126	Telecomm tunable fiber laser based on multimode interference effect. , 2008, , .		0



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127	Optical nonlinearity effects in 4-(4-pentenloxy) benzonitrile. , 2008, , .		0
128	Erbium-doped tunable fiber laser. Proceedings of SPIE, 2008, , .	0.8	2
129	Noise Suppression ASE of Erbium Doper Fiber Laser by Means of a Filter Optical Fiber Fattening. , 2008, , .		0
130	Design of a high voltage source to fabricate fiber optic arc induced gratings. , 2007, , .		0
131	Supercontinuum generation enhanced by conventional Raman amplification at pumping by nanosecond pulses from a directly modulated DFB laser. , 2007, , .		0
132	Theoretical study of optical processes in nonlinear photonic crystals devices. , 2007, , .		0
133	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
134	Stimulated Raman scattering and broadband spectrum generation of nanosecond pulses from a directly modulated DFB laser. , 2006, 6102, 443.		1
135	Photonic Band-Gaps in Periodic Lattices Arrays. , 2006, , .		0
136	Evolution of Broadband Spectrum Generation and Stimulated Raman Scattering from Nanosecond Pump Pulses in Single-Mode Optical Fiber. , 2006, , .		0
137	Optical fiber current sensor based on a magnetic structure. , 2005, , .		0
138	AC Measurement by Using an Optical Fiber Sensor. Telecommunications and Radio Engineering (English) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 2	0.4	0
139	Optical correction of the pulse shape from a directly modulated DFB laser. , 2005, , .		0
140	Demultiplexer Based on Photonic Crystals. Telecommunications and Radio Engineering (English) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 2	0.4	0
141	<title>Control in LabView of the monochromator DK240 and measurement of absorption and emission of erbium-doped Fiber</title>. , 2004, , .		0
142	pH sensor based on sol-gel silica layer deposited on a plastic optical fiber with blue bromophenol. , 2004, , .		0
143	<title>Twist in the center of the loop of Sagnac interferometer of optical fiber to determine the beat length</title>. , 2004, , .		0
144	<title>Non-optical loop mirror inducing birefringence bias macro bendings in the loop</title>. , 2004, , .		0

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145	<title>Dependence of the polarization of multiple dark waveguides in nonlinear liquids</title>. , 2004, 5622, 491.		0
146	Measurement of beat length in short low-birefringence fibers using the fiber optical loop mirror. Optics Communications, 2003, 217, 211-219.	2.1	21
147	Analysis of a Sagnac interferometer with low-birefringence twisted fiber. Optics and Lasers in Engineering, 2003, 39, 635-643.	3.8	8
148	Linear and nonlinear optical characterization of PMMA clusters with Ni nanoparticles dispersed. , 2003, 4833, 617.		0
149	All optical switching by total internal reflection in nonlinear interface of (2+1)D beams in SBN61:Ce. , 2003, , .		0
150	Spectral filter for the stokes suppression in the stimulated raman scattering. , 2003, , .		0
151	Measurements of beat length in short low-birefringence fibers. , 2003, , .		0
152	Optical sensed image fusion based on neural networks. , 2003, 4833, 121.		0
153	Analysis of a low-birefringence fiber Sagnac interferometer by twisted fiber. , 2003, , .		0
154	Measurements of beat length in short low-birefringence fibers. Optics Letters, 2001, 26, 1134.	3.3	41
155	<title>Implementation of a laser beam analyzer using the image acquisition card IMAQ (NI)</title>. , 2001, , .		2
156	<title>Design of an interferogram fringe counter based on LabVIEW</title>. , 2001, 4419, 309.		1
157	<title>Stimulated Raman scattering in optical fiber with high-loss produced by bending</title>. , 1999, 3749, 711.		0
158	Low birefringence measurement in optical fibres. Electronics Letters, 1999, 35, 332.	1.0	7
159	<title>Ultralow-birefringence measurement in optical fibers by use of a fiber optical loop mirror</title>. , 1999, 3749, 126.		0
160	<title>Nonlinear fiber optic loop mirror with low-birefringence twisted fiber in the loop</title>. , 1999, 3572, 151.		0
161	Self-bending of spatial solitons in nonlinear interface governed by drift and difussion. , 0, , .		0
162	Optical devices based on spatial bright solitons with controllable outputs. , 0, , .		0

#	ARTICLE	IF	CITATIONS
163	Stochastic optical solitons in nonlinear media type kerr. , 0, , .		0
164	Periodic structures by amplitude mask 2D in nonlinear liquid medium CS/sub 2/. , 0, , .		0