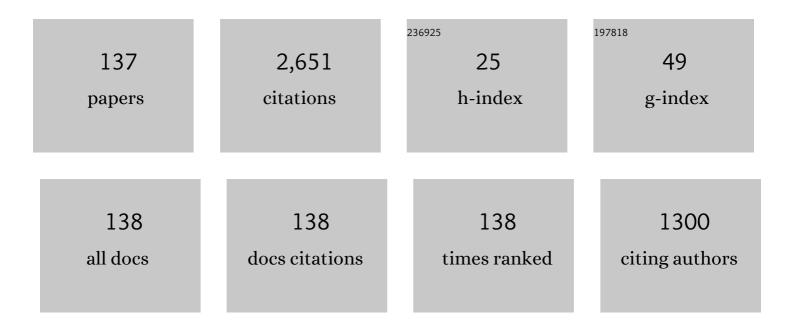
Miguel A Muriel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An efficient inverse scattering algorithm for the design of nonuniform fiber Bragg gratings. IEEE Journal of Quantum Electronics, 1999, 35, 1105-1115.	1.9	290
2	Real-time Fourier transformer based on fiber gratings. Optics Letters, 1999, 24, 1.	3.3	257
3	Temporal self-imaging effects: theory and application for multiplying pulse repetition rates. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 728-744.	2.9	249
4	Real-time optical spectrum analysis based on the time-space duality in chirped fiber gratings. IEEE Journal of Quantum Electronics, 2000, 36, 517-526.	1.9	206
5	Technique for multiplying the repetition rates of periodic trains of pulses by means of a temporal self-imaging effect in chirped fiber gratings. Optics Letters, 1999, 24, 1672.	3.3	141
6	Real-time spectrum analysis in microstrip technology. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 705-717.	4.6	90
7	Internal field distributions in fiber Bragg gratings. IEEE Photonics Technology Letters, 1997, 9, 955-957.	2.5	83
8	A new transfer matrix formalism for the analysis of fiber ring resonators: compound coupled structures for FDMA demultiplexing. Journal of Lightwave Technology, 1990, 8, 1904-1919.	4.6	71
9	Temporal Talbot effect in fiber gratings and its applications. Applied Optics, 1999, 38, 6700.	2.1	69
10	Transmission bistability in a double-coupler fiber ring resonator. Optics Letters, 1991, 16, 907.	3.3	58
11	Experimental demonstration of real-time Fourier transformation using linearly chirped fibre Bragg gratings. Electronics Letters, 1999, 35, 2223.	1.0	53
12	Apodized coupled resonator waveguides. Optics Express, 2007, 15, 10196.	3.4	51
13	Phase reconstruction from reflectivity in fiber Bragg gratings. Journal of Lightwave Technology, 1997, 15, 1314-1322.	4.6	48
14	Chirped delay lines in microstrip technology. IEEE Microwave and Wireless Components Letters, 2001, 11, 486-488.	3.2	45
15	Fiber Bragg grating as an optical filter tuned by a magnetic field. Optics Letters, 1997, 22, 603.	3.3	44
16	Single and double amplified recirculating delay lines as fibre-optic filters. Electronics Letters, 1992, 28, 1017-1019.	1.0	40
17	Design of an ultrafast all-optical differentiator based on a fiber Bragg grating in transmission. Optics Letters, 2008, 33, 2458.	3.3	40
18	Amplified fiber-optic recirculating delay lines. Journal of Lightwave Technology, 1994, 12, 294-305.	4.6	38

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19	Spectral self-imaging effect by time-domain multilevel phase modulation of a periodic pulse train. Optics Letters, 2011, 36, 858.	3.3	38
20	Fiber grating filter for WDM systems: an improved design. IEEE Photonics Technology Letters, 1999, 11, 694-696.	2.5	36
21	Fiber grating synthesis by use of time–frequency representations. Optics Letters, 1998, 23, 1526.	3.3	35
22	Phase reconstruction from reflectivity in uniform fiber Bragg gratings. Optics Letters, 1997, 22, 93.	3.3	33
23	Optical bistability and differential amplification in nonlinear fiber resonators. IEEE Journal of Quantum Electronics, 1994, 30, 2578-2588.	1.9	30
24	Field distributions inside fiber gratings. IEEE Journal of Quantum Electronics, 1999, 35, 548-558.	1.9	30
25	Integrable high order UWB pulse photonic generator based on cross phase modulation in a SOA-MZI. Optics Express, 2013, 21, 22911.	3.4	29
26	Fiber Bragg grating period reconstruction using time-frequency signal analysis and application to distributed sensing. Journal of Lightwave Technology, 2001, 19, 646-654.	4.6	28
27	Ultrafast all-optical integrator based on a fiber Bragg grating: proposal and design. Optics Letters, 2008, 33, 1348.	3.3	23
28	Pulse distortion in optical fibers and waveguides with arbitrary chromatic dispersion. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 2523.	2.1	22
29	Microwave V-I transmission matrix formalism for the analysis of photonic circuits: application to fiber Bragg gratings. Journal of Lightwave Technology, 2003, 21, 3125-3134.	4.6	21
30	Periodic Time-Domain Modulation for the Electrically Tunable Control of Optical Pulse Train Envelope and Repetition Rate Multiplication. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 377-383.	2.9	18
31	Temporal self-imaging effect for periodically modulated trains of pulses. Optics Express, 2014, 22, 15251.	3.4	18
32	All-pass optical structures for repetition rate multiplication. Optics Express, 2008, 16, 11162.	3.4	16
33	Flat-top pulse generation based on a fiber Bragg grating in transmission. Optics Letters, 2009, 34, 752.	3.3	15
34	Grating Design of Oppositely Chirped FBGs for Pulse Shaping. IEEE Photonics Technology Letters, 2007, 19, 435-437.	2.5	14
35	Temporal self-imaging effect for chirped laser pulse sequences: Repetition rate and duty cycle tunability. Optics Communications, 2005, 253, 156-163.	2.1	13
36	Ultrafast all-optical Nth-order differentiator based on chirped fiber Bragg gratings. Optics Express, 2007, 15, 7196.	3.4	13

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37	Spectral behavior of a low-cost all-fiber component based on untapered multifiber unions. IEEE Photonics Technology Letters, 1989, 1, 184-187.	2.5	12
38	Simultaneous ultrafast optical pulse train bursts generation and shaping based on Fourier series developments using superimposed fiber Bragg gratings. Optics Express, 2007, 15, 10878.	3.4	12
39	Repetition-rate multiplication using a single all-pass optical cavity. Optics Letters, 2008, 33, 962.	3.3	12
40	Reduction of polarization related effects in superimposed fiber Bragg gratings. Applied Optics, 2009, 48, 1635.	2.1	12
41	Bistability. Applied Physics B, Photophysics and Laser Chemistry, 1982, 28, 131-141.	1.5	11
42	Analysis of double-parallel amplified recirculating optical-delay lines. Applied Optics, 1994, 33, 1015.	2.1	11
43	Optical pulse sequence transmission through single-mode fibers: interference signal analysis. Journal of Lightwave Technology, 1991, 9, 27-36.	4.6	10
44	New code division multiple access encoder-decoder. Optical Engineering, 1993, 32, 481.	1.0	10
45	Growth Modeling of Fiber Gratings: A Numerical Investigation. Fiber and Integrated Optics, 2002, 21, 451-463.	2.5	10
46	Study of optical pulses - Fiber gratings interaction by means of joint time-frequency signal representations. Journal of Lightwave Technology, 2003, 21, 2931-2941.	4.6	10
47	Optical differential amplification in nonlinear fibre ring resonator. Electronics Letters, 1991, 27, 1810.	1.0	9
48	Double-cavity fiber structures as all optical timing extraction circuits for gigabit networks. Fiber and Integrated Optics, 1993, 12, 247-255.	2.5	9
49	Reconstruction of fiber grating period profiles by use of Wigner–Ville distributions and spectrograms. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 2496.	1.5	9
50	Reconstructing arbitrary strain distributions within fiber gratings by time–frequency signal analysis. Optics Letters, 2000, 25, 698.	3.3	9
51	Phase-reconstruction in photonic crystals from S-parameter magnitude in microstrip technology. Optical and Quantum Electronics, 2007, 39, 321-331.	3.3	9
52	UWB Pulses Generation and Modulation Through a Customized FBG-Based Photonic Device. IEEE Photonics Technology Letters, 2016, 28, 2319-2322.	2.5	9
53	Design of two-mode interference wavelength filter utilising symmetric three-mode structure. Electronics Letters, 1988, 24, 1525.	1.0	8
54	Measurement of transmitted power in untapered multifibre unions: oscillatory spectral behaviour. Electronics Letters, 1989, 25, 843.	1.0	7

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55	Real-time Fourier transformations performed simultaneously over multiwavelength signals. IEEE Photonics Technology Letters, 2001, 13, 55-57.	2.5	7
56	Scalable UWB photonic generator based on the combination of doublet pulses. Optics Express, 2014, 22, 15346.	3.4	7
57	Design and application of double amplified recirculating ring structure for hybrid fibre buses. Optical and Quantum Electronics, 1995, 27, 847-857.	3.3	6
58	Polarization effects in short- and long-period fibre gratings: a generalized approach. Journal of Optics, 2004, 6, S45-S51.	1.5	6
59	On the Measurement of Fiber Bragg Grating's Phase Responses and the Applicability of Phase Reconstruction Methods. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1416-1422.	4.7	6
60	A novel electrically tunable dispersion compensation system. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 1332-1338.	2.9	5
61	Emulated single-mode fiber-optic link by use of a linearly chirped fiber Bragg grating. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 1345-1352.	2.9	5
62	Simultaneous multiwavelength real-time optical spectrum analysis. Applied Optics, 2001, 40, 3831.	2.1	5
63	Synthesis of 1D Bragg gratings by a layer-aggregation method. Optics Letters, 2007, 32, 2312.	3.3	5
64	UWB Monocycle Generator Based on the Non-Linear Effects of an SOA-Integrated Structure. IEEE Photonics Technology Letters, 2014, 26, 690-693.	2.5	5
65	Integrated 16-ps Pulse Generator Based on a Reflective SOA-EAM for UWB Schemes. IEEE Photonics Technology Letters, 2016, 28, 2180-2182.	2.5	5
66	Liquid-crystal electro-optic modulator based on electrohydrodynamic effects. Optics Letters, 1980, 5, 494.	3.3	4
67	Electrooptical behavior of twisted-wedge nematic structures. Applied Optics, 1984, 23, 2159.	2.1	4
68	Depressed-index waveguides (DIW's) in integrated optics. Journal of Lightwave Technology, 1990, 8, 1779-1791.	4.6	4
69	Measurement technique for characterisation of 2×2 couplers. Electronics Letters, 1992, 28, 1303.	1.0	4
70	Acoustic Quasi-Crystals. Europhysics Letters, 1993, 21, 915-920.	2.0	4
71	Low threshold optical differential amplification using a fibre amplifier in a nonlinear ring resonator. Electronics Letters, 1993, 29, 1249.	1.0	4
72	Performance parameters and applications of a modified amplified recirculating delay line. Fiber and Integrated Optics, 1995, 14, 347-358.	2.5	4

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73	Model of an openable Faraday-effect hybrid-current optical transducer based on a square-shaped structure with internal mirror. Applied Optics, 1997, 36, 6242.	2.1	4
74	WDM channel selector based on transmissive chirped moirel̀•fibre grating. Electronics Letters, 1999, 35, 386.	1.0	4
75	Hermite-Gauss series expansions applied to arrayed waveguide gratings. IEEE Photonics Technology Letters, 2005, 17, 2331-2333.	2.5	4
76	Ultrafast all-optical Nth-order differentiator and simultaneous repetition-rate multiplier of periodic pulse train. Optics Express, 2007, 15, 12102.	3.4	4
77	WDM compatible and electrically tunable SPE-OCDMA system based on the temporal self-imaging effect. Optics Letters, 2011, 36, 400.	3.3	4
78	UWB Doublet Generation Employing Cross-Phase Modulation in a Semiconductor Optical Amplifier Mach–Zehnder Interferometer. IEEE Photonics Journal, 2013, 5, 7101106-7101106.	2.0	4
79	Third-Order Dispersion in Linearly Chirped Bragg Gratings and Its Compensation. Fiber and Integrated Optics, 2000, 19, 367-382.	2.5	3
80	Technique for simultaneously multiplying the repetition rate of multiwavelength optical pulse trains. IEEE Photonics Technology Letters, 2001, 13, 1358-1360.	2.5	3
81	Highly Accurate Synthesis of Fiber and Waveguide Bragg Gratings by an Impedance Reconstruction Layer-Aggregation Method. IEEE Journal of Quantum Electronics, 2007, 43, 889-898.	1.9	3
82	Optical pulse sequence transmission through monomode fibres under second-and third-order dispersion. Electronics Letters, 1988, 24, 1252.	1.0	3
83	Electrohydrodynamic Behavior in Twisted-Wedge Nematic Structures. Molecular Crystals and Liquid Crystals, 1983, 98, 183-191.	0.8	2
84	<title>Laser Pulse Shaping With Liquid Crystals</title> . , 1983, , .		2
85	Investigation on spectral behaviour of novel direct coupling compound fibre ring resonator. Electronics Letters, 1990, 26, 772.	1.0	2
86	Computer simulation of an all-optical coherent code division multiple-access network. Fiber and Integrated Optics, 1992, 11, 1-24.	2.5	2
87	Acoustic-field fibre-optic sensor. Sensors and Actuators A: Physical, 1993, 37-38, 489-493.	4.1	2
88	Experimental Demonstration of the Temperature Influence on an Optical Universal Compensator for Polarization Changes Induced by Birefringence on a Retracing Beam. Optical Fiber Technology, 1997, 3, 347-355.	2.7	2
89	Real-Time Spectrum Analysis in Microstrip Technology. , 2001, , .		2
90	Analysis of superimposed fiber Bragg gratings using the microwave V-I transmission matrix formalism. IEEE Photonics Technology Letters, 2005, 17, 2343-2345.	2.5	2

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91	Real-time optical spectrum analyzers operating with spectrally incoherent broadband continuous-wave light source. Optics Communications, 2007, 273, 320-323.	2.1	2
92	Repetition Rate Multiplication Using All-Pass Optical Structures. Optics and Photonics News, 2008, 19, 37.	0.5	2
93	Proposed flat-topped pulses bursts generation using all-pass multi-cavity structures. Optics Express, 2009, 17, 13875.	3.4	2
94	Bandlimited Airy Pulses for Invariant Propagation in Single-Mode Fibers. Journal of Lightwave Technology, 2012, 30, 3660-3666.	4.6	2
95	Experimental Electrically Reconfigurable Time-Domain Spectral Amplitude Encoding/Decoding in an Optical Code Division Multiple Access System. Fiber and Integrated Optics, 2013, 32, 324-335.	2.5	2
96	Scalable High-Order UWB Pulse Generation Employing an FBG-Based Photonic Superstructure. IEEE Photonics Technology Letters, 2015, 27, 2146-2149.	2.5	2
97	Optically Induced Modulation of a Laser Beam in Nematic Liquid Crystals Structures. Molecular Crystals and Liquid Crystals, 1983, 99, 1-9.	0.8	1
98	Light Level To Electrical Frequency Conversion With Hybrid Optical Bistable Devices. , 1985, 0492, 397.		1
99	Electro-optically tunable wavelength demultiplexer using depressed index waveguides. Electronics Letters, 1991, 27, 195.	1.0	1
100	New behavior in nonideal couplers. Applied Optics, 1992, 31, 4332.	2.1	1
101	Signal processing techniques applied to fiber grating synthesis. , 1999, , BA1.		1
102	Real-Time Fourier Transformer System Using Transmissive Fiber Gratings. Fiber and Integrated Optics, 2000, 19, 439-453.	2.5	1
103	Microstrip Chirped Delay Lines based on Photonic Band-Gap Structures. , 2002, , .		1
104	Phase Reconstruction for the Frequency Response Measurement of FBGs. , 2007, , .		1
105	Spectrally Efficient Phase Encoded Optical CDMA System in Time Domain. , 2008, , .		1
106	Experimental demonstration of a FBG-based temporal optical pulse shaping scheme dual to spatial arrangements for its use in OCDMA systems. , 2009, , .		1
107	Spectrally efficient optical CDMA system based on chromatic dispersion for phase coding of individual spectral lines in the time domain. Proceedings of SPIE, 2009, , .	0.8	1
108	High order UWB pulses generation based on a scalable phase-to-intensity technique. , 2015, , .		1

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109	Dual-channel real-time Fourier transformer based on chirped Moir $ ilde{A}$ © fiber grating. , 1999, , .		1
110	Total switching of unpolarized light with an electrooptic liquid-crystal device. IEEE Journal of Quantum Electronics, 1981, 17, 2424-2426.	1.9	0
111	<title>Digital Light Beam Deflector With Liquid Crystals</title> . , 1981, , .		0
112	Photonic logic based on molecular reorientation of nematic liquid crystals. Philosophical Transactions of the Royal Society A, 1984, 313, 381-384.	1.1	0
113	Analysis of the interference signal arising from the transmission of a pulse sequence through a monomode fibre. Electronics Letters, 1990, 26, 149.	1.0	0
114	An acoustic quasi-crystalline wave-field. Chaos, Solitons and Fractals, 1993, 3, 265-268.	5.1	0
115	Design of a lossy tunable wavelength demultiplexer utilizing MgO:Ti:LiNbO/sub 3/ depressed index waveguides. Journal of Lightwave Technology, 1993, 11, 2080-2086.	4.6	0
116	Optical Amplified Recirculating Delay Lines Transient Response Effect on Hybrid Fiber Buses. Optical Fiber Technology, 1997, 3, 65-71.	2.7	0
117	A microwave balanced mixer using an automatically biased dual-drive intensity electro-optic modulator. Microwave and Optical Technology Letters, 1998, 18, 58-63.	1.4	0
118	Time-frequency representation applied to fiber gratings synthesis. , 0, , .		0
119	Sidelobes suppression in fiber gratings: a new design. , 1998, 3491, 124.		0
120	Chirped fiber grating-based fiber optic communication evaluator: design and implementation. Optical Engineering, 1999, 38, 1640.	1.0	0
121	Reconstruction of Fiber Gratings by Use Of Time-Frequency Signal Analysis: Application to Distributed Sensing. Optics and Photonics News, 2000, 11, 41.	0.5	0
122	Synchronized Multiplication Of Repetition Rates in Multiwavelength Optical Pulse Trains. Optics and Photonics News, 2001, 12, 47.	0.5	0
123	Phase- Retrieval From Magnitude-Data In Microstrip Electromagnetic Crystals. , 2006, , .		0
124	Experimental demonstration of the reduction of PDL and DGD in Fibre Bragg Gratings by using a twisted-fibre for the inscription. , 2008, , .		0
125	Optical pulse train repetition rate and envelope control based on the optical fourier transform. , 2009, , .		0
126	Experimental Demonstration of a FBC-Based Temporal Optical Pulse Shaping Scheme Dual to Spatial Arrangements for its Use in OCDMA Systems. , 2009, , .		0

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127	Optical Code Division Multiple Access coder/decoder pairs based on temporal optical pulse shaping with fiber Bragg Gratings and electrooptic modulators. , 2010, , .		Ο
128	Optical signal processing with electrooptic modulators and dispersion. , 2011, , .		0
129	Electrically Tunable Delay for Trains of Optical Pulses. , 2012, , .		Ο
130	Generation of an UWB monocycle employing cross-phase modulation in a SOA-MZ interferometer. , 2013, , .		0
131	UWB doublet generation in an integrated semiconductor optical amplifier Mach-Zehnder interferometer. , 2013, , .		0
132	Characterization of Microring Filters for Differential Group Delay Applications. Journal of Lightwave Technology, 2017, 35, 2943-2947.	4.6	0
133	Programmable Retiming of an Optical Clock Signal Using the Temporal Talbot Effect. IEEE Photonics Technology Letters, 2019, 31, 2007-2010.	2.5	0
134	Spectrally Efficient Optical CDMA System Based on Chromatic Dispersion for Phase Coding of Individual Spectral Lines in the Time Domain. , 2009, , .		0
135	Electrically Tunable Delay for Trains of Optical Pulses. , 2012, , .		0
136	Synthesis of Arbitrary Group Delay Responses with All-Pass Optical Cavities Structures. , 2012, , .		0
137	lectrically tunable delay line for trains of optical pulses based on the temporal self-imaging effect. Optica Pura Y Aplicada, 2012, 45, 113-119.	0.1	Ο