Miguel A Muriel

List of Publications by Year
in descending order

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137 papers	2,651 citations	236925 25 h-index	197818 49 g-index
138 all docs	138 docs citations	138 times ranked	1300 citing authors

#	Article	IF	Citations
1	Programmable Retiming of an Optical Clock Signal Using the Temporal Talbot Effect. IEEE Photonics Technology Letters, 2019, 31, 2007-2010.	2.5	0
2	Characterization of Microring Filters for Differential Group Delay Applications. Journal of Lightwave Technology, 2017, 35, 2943-2947.	4.6	0
3	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
4	UWB Pulses Generation and Modulation Through a Customized FBG-Based Photonic Device. IEEE Photonics Technology Letters, 2016, 28, 2319-2322.	2.5	9
5	High order UWB pulses generation based on a scalable phase-to-intensity technique. , 2015, , .		1
6	Scalable High-Order UWB Pulse Generation Employing an FBG-Based Photonic Superstructure. IEEE Photonics Technology Letters, 2015, 27, 2146-2149.	2.5	2
7	Temporal self-imaging effect for periodically modulated trains of pulses. Optics Express, 2014, 22, 15251.	3.4	18
8	Scalable UWB photonic generator based on the combination of doublet pulses. Optics Express, 2014, 22, 15346.	3.4	7
9	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
10	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
11	Generation of an UWB monocycle employing cross-phase modulation in a SOA-MZ interferometer. , 2013, , .		0
12	UWB Doublet Generation Employing Cross-Phase Modulation in a Semiconductor Optical Amplifier Machâ€“Zehnder Interferometer. IEEE Photonics Journal, 2013, 5, 7101106-7101106.	2.0	4
13	Integrable high order UWB pulse photonic generator based on cross phase modulation in a SOA-MZI. Optics Express, 2013, 21, 22911.	3.4	29
14	UWB doublet generation in an integrated semiconductor optical amplifier Mach-Zehnder interferometer. , 2013, , .		0
15	Electrically Tunable Delay for Trains of Optical Pulses. , 2012, , .		0
16	Bandlimited Airy Pulses for Invariant Propagation in Single-Mode Fibers. Journal of Lightwave Technology, 2012, 30, 3660-3666.	4.6	2
17	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
18	Electrically Tunable Delay for Trains of Optical Pulses. , 2012, , .		0

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19	Synthesis of Arbitrary Group Delay Responses with All-Pass Optical Cavities Structures. , 2012, , .		0
20	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	0
21	Optical signal processing with electrooptic modulators and dispersion. , 2011, , .		0
22	WDM compatible and electrically tunable SPE-OCDMA system based on the temporal self-imaging effect. Optics Letters, 2011, 36, 400.	3.3	4
23	Spectral self-imaging effect by time-domain multilevel phase modulation of a periodic pulse train. Optics Letters, 2011, 36, 858.	3.3	38
24	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
25	Optical Code Division Multiple Access coder/decoder pairs based on temporal optical pulse shaping with fiber Bragg Gratings and electrooptic modulators. , 2010, , .		0
26	Optical pulse train repetition rate and envelope control based on the optical fourier transform. , 2009, , .		0
27	Flat-top pulse generation based on a fiber Bragg grating in transmission. Optics Letters, 2009, 34, 752.	3.3	15
28	Proposed flat-topped pulses bursts generation using all-pass multi-cavity structures. Optics Express, 2009, 17, 13875.	3.4	2
29	Reduction of polarization related effects in superimposed fiber Bragg gratings. Applied Optics, 2009, 48, 1635.	2.1	12
30	Experimental demonstration of a FBG-based temporal optical pulse shaping scheme dual to spatial arrangements for its use in OCDMA systems. , 2009, , .		1
31	Experimental Demonstration of a FBG-Based Temporal Optical Pulse Shaping Scheme Dual to Spatial Arrangements for its Use in OCDMA Systems. , 2009, , .		0
32	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
33	Spectrally Efficient Optical CDMA System Based on Chromatic Dispersion for Phase Coding of Individual Spectral Lines in the Time Domain. , 2009, , .		0
34	Repetition-rate multiplication using a single all-pass optical cavity. Optics Letters, 2008, 33, 962.	3.3	12
35	Ultrafast all-optical integrator based on a fiber Bragg grating: proposal and design. Optics Letters, 2008, 33, 1348.	3.3	23
36	Design of an ultrafast all-optical differentiator based on a fiber Bragg grating in transmission. Optics Letters, 2008, 33, 2458.	3.3	40

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37	Repetition Rate Multiplication Using All-Pass Optical Structures. Optics and Photonics News, 2008, 19, 37.	0.5	2
38	All-pass optical structures for repetition rate multiplication. Optics Express, 2008, 16, 11162.	3.4	16
39	Spectrally Efficient Phase Encoded Optical CDMA System in Time Domain. , 2008, , .		1
40	Experimental demonstration of the reduction of PDL and DGD in Fibre Bragg Gratings by using a twisted-fibre for the inscription. , 2008, , .		0
41	Synthesis of 1D Bragg gratings by a layer-aggregation method. Optics Letters, 2007, 32, 2312.	3.3	5
42	Ultrafast all-optical Nth-order differentiator based on chirped fiber Bragg gratings. Optics Express, 2007, 15, 7196.	3.4	13
43	Apodized coupled resonator waveguides. Optics Express, 2007, 15, 10196.	3.4	51
44	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
45	Ultrafast all-optical Nth-order differentiator and simultaneous repetition-rate multiplier of periodic pulse train. Optics Express, 2007, 15, 12102.	3.4	4
46	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
47	Phase Reconstruction for the Frequency Response Measurement of FBGs. , 2007, , .		1
48	Grating Design of Oppositely Chirped FBGs for Pulse Shaping. IEEE Photonics Technology Letters, 2007, 19, 435-437.	2.5	14
49	Real-time optical spectrum analyzers operating with spectrally incoherent broadband continuous-wave light source. Optics Communications, 2007, 273, 320-323.	2.1	2
50	Phase-reconstruction in photonic crystals from S-parameter magnitude in microstrip technology. Optical and Quantum Electronics, 2007, 39, 321-331.	3.3	9
51	Phase- Retrieval From Magnitude-Data In Microstrip Electromagnetic Crystals. , 2006, , .		0
52	Temporal self-imaging effect for chirped laser pulse sequences: Repetition rate and duty cycle tunability. Optics Communications, 2005, 253, 156-163.	2.1	13
53	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
54	Hermite-Gauss series expansions applied to arrayed waveguide gratings. IEEE Photonics Technology Letters, 2005, 17, 2331-2333.	2.5	4

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55	Polarization effects in short- and long-period fibre gratings: a generalized approach. Journal of Optics, 2004, 6, S45-S51.	1.5	6
56	Real-time spectrum analysis in microstrip technology. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 705-717.	4.6	90
57	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
58	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
59	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
60	Growth Modeling of Fiber Gratings: A Numerical Investigation. Fiber and Integrated Optics, 2002, 21, 451-463.	2.5	10
61	Microstrip Chirped Delay Lines based on Photonic Band-Gap Structures. , 2002, , .		1
62	Real-time Fourier transformations performed simultaneously over multiwavelength signals. IEEE Photonics Technology Letters, 2001, 13, 55-57.	2.5	7
63	Technique for simultaneously multiplying the repetition rate of multiwavelength optical pulse trains. IEEE Photonics Technology Letters, 2001, 13, 1358-1360.	2.5	3
64	Synchronized Multiplication Of Repetition Rates in Multiwavelength Optical Pulse Trains. Optics and Photonics News, 2001, 12, 47.	0.5	0
65	Simultaneous multiwavelength real-time optical spectrum analysis. Applied Optics, 2001, 40, 3831.	2.1	5
66	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
67	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
68	Real-Time Spectrum Analysis in Microstrip Technology. , 2001, , .		2
69	Chirped delay lines in microstrip technology. IEEE Microwave and Wireless Components Letters, 2001, 11, 486-488.	3.2	45
70	Reconstruction of fiber grating period profiles by use of Wignerâ€“Ville distributions and spectrograms. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 2496.	1.5	9
71	Reconstructing arbitrary strain distributions within fiber gratings by timeâ€“frequency signal analysis. Optics Letters, 2000, 25, 698.	3.3	9
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73	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
74	Third-Order Dispersion in Linearly Chirped Bragg Gratings and Its Compensation. Fiber and Integrated Optics, 2000, 19, 367-382.	2.5	3
75	Real-Time Fourier Transformer System Using Transmissive Fiber Gratings. Fiber and Integrated Optics, 2000, 19, 439-453.	2.5	1
76	WDM channel selector based on transmissive chirped moirèfibre grating. Electronics Letters, 1999, 35, 386.	1.0	4
77	Experimental demonstration of real-time Fourier transformation using linearly chirped fibre Bragg gratings. Electronics Letters, 1999, 35, 2223.	1.0	53
78	Signal processing techniques applied to fiber grating synthesis. , 1999, , BA1.		1
79	Chirped fiber grating-based fiber optic communication evaluator: design and implementation. Optical Engineering, 1999, 38, 1640.	1.0	0
80	A novel electrically tunable dispersion compensation system. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 1332-1338.	2.9	5
81	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
82	Field distributions inside fiber gratings. IEEE Journal of Quantum Electronics, 1999, 35, 548-558.	1.9	30
83	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
84	Fiber grating filter for WDM systems: an improved design. IEEE Photonics Technology Letters, 1999, 11, 694-696.	2.5	36
85	Temporal Talbot effect in fiber gratings and its applications. Applied Optics, 1999, 38, 6700.	2.1	69
86	Real-time Fourier transformer based on fiber gratings. Optics Letters, 1999, 24, 1.	3.3	257
87	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
88	Dual-channel real-time Fourier transformer based on chirped MoirÃ© fiber grating. , 1999, , .		1
89	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
90	Fiber grating synthesis by use of timeâ€“frequency representations. Optics Letters, 1998, 23, 1526.	3.3	35

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91	Sidelobes suppression in fiber gratings: a new design. , 1998, 3491, 124.		0
92	Phase reconstruction from reflectivity in fiber Bragg gratings. Journal of Lightwave Technology, 1997, 15, 1314-1322.	4.6	48
93	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
94	Phase reconstruction from reflectivity in uniform fiber Bragg gratings. Optics Letters, 1997, 22, 93.	3.3	33
95	Fiber Bragg grating as an optical filter tuned by a magnetic field. Optics Letters, 1997, 22, 603.	3.3	44
96	Internal field distributions in fiber Bragg gratings. IEEE Photonics Technology Letters, 1997, 9, 955-957.	2.5	83
97	Optical Amplified Recirculating Delay Lines Transient Response Effect on Hybrid Fiber Buses. Optical Fiber Technology, 1997, 3, 65-71.	2.7	0
98	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
99	Design and application of double amplified recirculating ring structure for hybrid fibre buses. Optical and Quantum Electronics, 1995, 27, 847-857.	3.3	6
100	Performance parameters and applications of a modified amplified recirculating delay line. Fiber and Integrated Optics, 1995, 14, 347-358.	2.5	4
101	Analysis of double-parallel amplified recirculating optical-delay lines. Applied Optics, 1994, 33, 1015.	2.1	11
102	Optical bistability and differential amplification in nonlinear fiber resonators. IEEE Journal of Quantum Electronics, 1994, 30, 2578-2588.	1.9	30
103	Amplified fiber-optic recirculating delay lines. Journal of Lightwave Technology, 1994, 12, 294-305.	4.6	38
104	Acoustic-field fibre-optic sensor. Sensors and Actuators A: Physical, 1993, 37-38, 489-493.	4.1	2
105	An acoustic quasi-crystalline wave-field. Chaos, Solitons and Fractals, 1993, 3, 265-268.	5.1	0
106	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
107	Double-cavity fiber structures as all optical timing extraction circuits for gigabit networks. Fiber and Integrated Optics, 1993, 12, 247-255.	2.5	9
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109	New code division multiple access encoder-decoder. Optical Engineering, 1993, 32, 481.	1.0	10
110	Low threshold optical differential amplification using a fibre amplifier in a nonlinear ring resonator. Electronics Letters, 1993, 29, 1249.	1.0	4
111	Single and double amplified recirculating delay lines as fibre-optic filters. Electronics Letters, 1992, 28, 1017-1019.	1.0	40
112	Measurement technique for characterisation of 2Ã—2 couplers. Electronics Letters, 1992, 28, 1303.	1.0	4
113	Computer simulation of an all-optical coherent code division multiple-access network. Fiber and Integrated Optics, 1992, 11, 1-24.	2.5	2
114	New behavior in nonideal couplers. Applied Optics, 1992, 31, 4332.	2.1	1
115	Transmission bistability in a double-coupler fiber ring resonator. Optics Letters, 1991, 16, 907.	3.3	58
116	Electro-optically tunable wavelength demultiplexer using depressed index waveguides. Electronics Letters, 1991, 27, 195.	1.0	1
117	Optical differential amplification in nonlinear fibre ring resonator. Electronics Letters, 1991, 27, 1810.	1.0	9
118	Optical pulse sequence transmission through single-mode fibers: interference signal analysis. Journal of Lightwave Technology, 1991, 9, 27-36.	4.6	10
119	Investigation on spectral behaviour of novel direct coupling compound fibre ring resonator. Electronics Letters, 1990, 26, 772.	1.0	2
120	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
121	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
122	Depressed-index waveguides (DIW's) in integrated optics. Journal of Lightwave Technology, 1990, 8, 1779-1791.	4.6	4
123	Measurement of transmitted power in untapered multifibre unions: oscillatory spectral behaviour. Electronics Letters, 1989, 25, 843.	1.0	7
124	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
125	Design of two-mode interference wavelength filter utilising symmetric three-mode structure. Electronics Letters, 1988, 24, 1525.	1.0	8
126	Optical pulse sequence transmission through monomode fibres under second-and third-order dispersion. Electronics Letters, 1988, 24, 1252.	1.0	3

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127	Light Level To Electrical Frequency Conversion With Hybrid Optical Bistable Devices. , 1985, 0492, 397.		1
128	Electrooptical behavior of twisted-wedge nematic structures. Applied Optics, 1984, 23, 2159.	2.1	4
129	Photonic logic based on molecular reorientation of nematic liquid crystals. Philosophical Transactions of the Royal Society A, 1984, 313, 381-384.	1.1	0
130	Electrohydrodynamic Behavior in Twisted-Wedge Nematic Structures. Molecular Crystals and Liquid Crystals, 1983, 98, 183-191.	0.8	2
131	<title>Laser Pulse Shaping With Liquid Crystals</title>. , 1983, , .		2
132	Optically Induced Modulation of a Laser Beam in Nematic Liquid Crystals Structures. Molecular Crystals and Liquid Crystals, 1983, 99, 1-9.	0.8	1
133	Bistability. Applied Physics B, Photophysics and Laser Chemistry, 1982, 28, 131-141.	1.5	11
134	Total switching of unpolarized light with an electrooptic liquid-crystal device. IEEE Journal of Quantum Electronics, 1981, 17, 2424-2426.	1.9	0
135	<title>Digital Light Beam Deflector With Liquid Crystals</title>. , 1981, , .		0
136	Liquid-crystal electro-optic modulator based on electrohydrodynamic effects. Optics Letters, 1980, 5, 494.	3.3	4
137	Time-frequency representation applied to fiber gratings synthesis. , 0, , .		0