Marcelo L F Abbade

List of Publications by Year
in descending order

44	228	1040056 9	1125743 13
papers	citations	h-index	g-index

44	44	44	155
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quaternary optical packets generated by fiber four-wave mixing. IEEE Photonics Technology Letters, 2006, 18, 331-333.	2.5	23
2	A technology for recycling lithium-ion batteries promoting the circular economy: The RecycLib. Resources, Conservation and Recycling, 2021, 175, 105863.	10.8	23
3	All-optical demultiplexing of 4-ASK optical signals with four-wave mixing optical gates. Optics Communications, 2010, 283, 1102-1109.	2.1	17
4	Load Balancing in Fixed-Routing Optical Networks with Weighted Ordering Heuristics. Journal of Optical Communications and Networking, 2019, 11, 26.	4.8	17
5	All-optical cryptography of M-QAM formats by using two-dimensional spectrally sliced keys. Applied Optics, 2015, 54, 4359.	1.8	15
6	The effects of polarization mode dispersion on 2D wavelength-hopping time spreading code routed networks. Photonic Network Communications, 2010, 20, 27-32.	2.7	11
7	Implementation and performance investigation of radioâ€overâ€fiber systems in wireless sensor networks. Microwave and Optical Technology Letters, 2012, 54, 2669-2675.	1.4	11
8	Compensation of nonlinear distortion in coherent optical OFDM systems using a MIMO deep neural network-based equalizer. Optics Letters, 2020, 45, 5820.	3.3	11
9	Ultra-broadband two-pump optical parametric amplifier in tellurite waveguides with engineered dispersion. Optics Express, 2017, 25, 4268.	3.4	10
10	Histogram Based Clustering for Nonlinear Compensation in Long Reach Coherent Passive Optical Networks. Applied Sciences (Switzerland), 2020, 10, 152.	2.5	10
11	Field-Trial Evaluation of Cross-Layer Effect Caused by All-Optical Wavelength Converters on IP Network Applications. Journal of Lightwave Technology, 2009, 27, 1816-1826.	4.6	9
12	Performance analysis of a Radio over Fiber system based on IEEE 802.15.4 standard in a real optical network. Microwave and Optical Technology Letters, 2009, 51, 1876-1879.	1.4	8
13	Generation of quaternaryâ€amplitude microwave signals by using a new optical heterodyne technique. Microwave and Optical Technology Letters, 2012, 54, 2738-2743.	1.4	8
14	All-Optical Encryption Using Multi-Channel Spectral Shuffling. IEEE Photonics Technology Letters, 2019, 31, 98-101.	2.5	7
15	Field-trial evaluation of the Q-factor penalty introduced by fiber four-wave mixing wavelength converters. Optics Communications, 2009, 282, 106-116.	2.1	5
16	Optical amplitude multiplexing through parametric amplification in optical fibers. Optics Communications, 2010, 283, 454-463.	2.1	5
17	DSP-Based Multi-Channel Spectral Shuffling Applied to Optical Networks. IEEE Photonics Technology Letters, 2020, 32, 154-157.	2.5	5
18	A new all-optical cryptography technique applied to WDM-compatible DPSK signals. , 2013, , .		4

#	Article	IF	Citations
19	Double all-optical encryption of M-QAM signals based on spectrally sliced encoding keys. , 2015, , .		4
20	Performance of transparent optical networks with multiple bandwidth channels. , 2013, , .		3
21	An allâ€optical OCDMA encoder with simultaneous signal regeneration based on fiber fourâ€wave mixing. Microwave and Optical Technology Letters, 2014, 56, 1024-1028.	1.4	3
22	Spectral reallocation in lightpaths encompassing the most fragmented link of elastic optical networks. , 2016, , .		3
23	Quaternary amplitude optical packets generated by four-wave mixing: Power level optimization. , 2009, , .		2
24	All-optical phase and delay spectral encoding of signals with advanced modulation formats. , 2014, , .		2
25	A new elastic optical network defragmentation strategy based on the reallocation of lightpaths sharing the most fragmented link. , 2015, , .		2
26	Competition between FWM dynamics and modulational instability in dispersion shifted fibers. IEEE Photonics Technology Letters, 2002, 14, 36-38.	2.5	1
27	Cost Analysis in Optical Burst Switching Networks with Optical Label Processing. IEEE Latin America Transactions, 2011, 9, 991-997.	1.6	1
28	A new optical heterodyne technique for generating multi-amplitude microwave signals. , 2011, , .		1
29	All-optical narrowband spectral slicing encryption with super-Gaussian filters. , 2014, , .		1
30	A New DSP-Based Physical Layer Encryption Technique Applied to Passive Optical Networks. , 2018, , .		1
31	All-optical Spectral Shuffling Applied to 16-QAM Signals. , 2019, , .		1
32	All-Optical Spectral Shuffling of Signals Traveling through Different Optical Routes. , 2019, , .		1
33	Nonlinear phase noise compensation in single-span digital coherent optical systems employing artificial neural networks. , 2021, , .		1
34	Security in Optical Communication Systems: Data Encryption and Beyond. , 2021, , .		1
35	Mitigation of nonlinear phase noise in single-channel coherent 16-QAM systems employing logistic regression. Optical and Quantum Electronics, 2021, 53, 1.	3.3	1
36	Power consumption optimization in multi-granular optical networks with particle swarm intelligence. , 2013, , .		0

#	Article	IF	Citations
37	Transmission of encrypted optical signals in a metropolitan WDM-compatible TON with differential phase-shift keying modulation. , 2013, , .		0
38	Compact Narrowband Optical Filter Based on Ring Ressonators in Silicon Photonics. IEEE Latin America Transactions, 2016, 14, 3087-3092.	1.6	0
39	Double-lock strategy applied to optical spectral phase and delay encoding. , 2017, , .		0
40	AnÃ¡lise das caracterÃsticas de trÃ¡fego em redes Ã³pticas comutadas por rajadas com processamento Ã³ptico de rÃ³tulos. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 2007, 28, 129.	0.1	0
41	All-Optical Amplitude Multiplexing Through Fiber Parametric Interaction Between Binary Signals. , 0, , .		0
42	Signal Encryption Opportunities for Photonic Networks. , 2020, , .		0
43	Ultrabroadband Wavelength Conversion with Tellurite Waveguides. , 2021, , .		0
44	Mathematical expression of the bit error ratio in terms of the SNR and laser linewidths in digital coherent optical communication systems. , 2021, , .		0