

Edson Porto da Silva

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Lumped Compensation of Nonlinearities based on Optical Phase Conjugation. Journal of Lightwave Technology, 2022, 40, 681-691.	4.6	8
2	Probabilistic Shaping for the Optical Phase Conjugation Channel. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-16.	2.9	9
3	909.5 Tbit/s Dense SDM and WDM Transmission Based on a Single Source Optical Frequency Comb and Kramers-Kronig Detection. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	9
4	Adaptive Turbo Equalization for Nonlinearity Compensation in WDM Systems. Journal of Lightwave Technology, 2021, 39, 7124-7134.	4.6	5
5	Block Error Detection Driven Nonlinearity Compensation for Optical Fiber Communications. IEEE Photonics Technology Letters, 2021, 33, 461-464.	2.5	3
6	FEC-assisted Nonlinearity Compensation for Coherent Optical Receivers. , 2021, , .		0
7	Optical processing and manipulation of wavelength division multiplexed signals. , 2020, , 233-299.		2
8	Probabilistically Shaped Rate-Adaptive Polar-Coded 256-QAM WDM Optical Transmission System. Journal of Lightwave Technology, 2020, 38, 1800-1808.	4.6	11
9	An Experimental Demonstration of Rate-Adaptation Using Shaped Polar Codes for Flexible Optical Networks. Journal of Lightwave Technology, 2019, 37, 3357-3364.	4.6	4
10	Characterization and Optimization of Four-Wave-Mixing Wavelength Conversion System. Journal of Lightwave Technology, 2019, 37, 5628-5636.	4.6	21
11	Dual-Polarization NFDM Transmission With Continuous and Discrete Spectral Modulation. Journal of Lightwave Technology, 2019, 37, 2335-2343.	4.6	41
12	Perturbation-Based FEC-Assisted Iterative Nonlinearity Compensation for WDM Systems. Journal of Lightwave Technology, 2019, 37, 875-881.	4.6	17
13	Optical Phase Conjugation in a Silicon Waveguide With Lateral p-i-n Diode for Nonlinearity Compensation. Journal of Lightwave Technology, 2019, 37, 323-329.	4.6	10
14	All-optical OFDM demultiplexing with optical partial Fourier transform and coherent sampling. Optics Letters, 2019, 44, 443.	3.3	5
15	Advances in the First Brazilian Project on an HTS Power Cable. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	5
16	Optimization of DP-M-QAM Transmitter Using Cooperative Coevolutionary Genetic Algorithm. Journal of Lightwave Technology, 2018, 36, 2450-2462.	4.6	29
17	Optimizing the Achievable Rates of Tricky Channels: A Probabilistic Shaping for OPC Channel Example. , 2018, , .		2
18	Kramers-Kronig Detection with Adaptive Rates for 909.5 Tbit/s Dense SDM and WDM Data Channels. , 2018, , .		7

#	ARTICLE	IF	CITATIONS
19	Dual-Polarization NFDM Transmission Using Distributed Raman Amplification and NFT-Domain Equalization. IEEE Photonics Technology Letters, 2018, 30, 1983-1986.	2.5	33
20	Single-source chip-based frequency comb enabling extreme parallel data transmission. Nature Photonics, 2018, 12, 469-473.	31.4	165
21	Dual-polarization nonlinear Fourier transform-based optical communication system. Optica, 2018, 5, 263.	9.3	111
22	Dual-polarization wavelength conversion of 16-QAM signals in a single silicon waveguide with a lateral p-i-n diode [Invited]. Photonics Research, 2018, 6, B23.	7.0	8
23	Silicon Chip-to-Chip Mode-Division Multiplexing. , 2018, , .		6
24	FEC-assisted Perturbation-based Nonlinear Compensation for WDM Systems. , 2018, , .		3
25	Nonlinear Phase Noise Compensation in Experimental WDM Systems With 256QAM. Journal of Lightwave Technology, 2017, 35, 1438-1443.	4.6	18
26	Wavelength conversion of QAM signals in a low loss CMOS compatible spiral waveguide. APL Photonics, 2017, 2, 046105.	5.7	17
27	Characterization and Optimization of a High-Efficiency AlGaAs-On-Insulator-Based Wavelength Converter for 64- and 256-QAM Signals. Journal of Lightwave Technology, 2017, 35, 3750-3757.	4.6	41
28	Experimental analysis of pilot-based equalization for probabilistically shaped WDM systems with 256QAM/1024QAM. , 2017, , .		14
29	Performance emulation and parameter estimation for nonlinear fibre-optic links. , 2016, , .		3
30	Constellation Shaping for WDM Systems Using 256QAM/1024QAM With Probabilistic Optimization. Journal of Lightwave Technology, 2016, 34, 5146-5156.	4.6	105
31	Widely Linear Equalization for IQ Imbalance and Skew Compensation in Optical Coherent Receivers. Journal of Lightwave Technology, 2016, 34, 3577-3586.	4.6	85
32	Combined Optical and Electrical Spectrum Shaping for High-Baud-Rate Nyquist-WDM Transceivers. IEEE Photonics Journal, 2016, 8, 1-11.	2.0	10
33	Single-Source AlGaAs Frequency Comb Transmitter for 661 Tbit/s Data Transmission in a 30-core Fiber. , 2016, , .		15
34	Joint IQ Skew and Chromatic Dispersion Estimation for Coherent Optical Communication Receivers. , 2016, , .		5
35	Low-penalty up to 16-QAM wavelength conversion in a low loss CMOS compatible spiral waveguide. , 2016, , .		1
36	Wavelength Conversion of QPSK and 16-QAM Coherent Signals in a CMOS Compatible Spiral Waveguide. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Performance of Multi-Channel DBP with Long-haul Frequency-Referenced Transmission. , 2016, , .		1
38	Impairment mitigation in superchannels with digital backpropagation and MLS. Optics Express, 2015, 23, 29493.	3.4	2
39	Quaternary Polarization-Multiplexed Subsystem for High-Capacity IM/DD Optical Data Links. Journal of Lightwave Technology, 2015, 33, 1408-1416.	4.6	17
40	Focusing Over Optical Fiber Using Time Reversal. IEEE Photonics Technology Letters, 2015, 27, 631-634.	2.5	8
41	100 Gbps IM/DD links using quad-polarization: Performance, complexity, and power dissipation. Optics Express, 2015, 23, 19954.	3.4	3
42	Mitigation of Linear and Nonlinear Impairments in Spectrally Efficient Superchannels. , 2015, , .		0
43	Nonlinear Compensation with Modified Adaptive Digital Backpropagation in Flexigrid Networks. , 2015, , .		2
44	Quad-polarization transmission for high-capacity IM/DD links. , 2014, , .		5
45	WDM Transmission of 3Å—1.12-Tb/s PDM-16QAM Superchannels with 6.5-b/s/Hz in a 162.5-GHz Flexible-Grid using only Optical Spectral Shaping. , 2014, , .		3
46	Experimental evaluation of prefiltering for 56Gbaud DP-QPSK signal transmission in 75GHz WDM grid. Optical Fiber Technology, 2014, 20, 39-43.	2.7	1
47	Joint Iterative Carrier Synchronization and Signal Detection Employing Expectation Maximization. Journal of Lightwave Technology, 2014, 32, 1608-1615.	4.6	12
48	DSP-based focusing over optical fiber using time reversal. , 2014, , .		1
49	A WDM transmission in a 62.5-GHz grid over 452 km using 3×400-Cb/s Superchannels at 6.4 b/s/Hz. , 2013, , .		0
50	Toward ultra-broadband elastic optical networks: reconfigurable quasi-Nyquist transmitter for metro- and long-haul scenarios. , 2013, , .		0
51	Demonstration of EDFA Cognitive Gain Control via GMPLS for Mixed Modulation Formats in Heterogeneous Optical Networks. , 2013, , .		24
52	Joint Iterative Carrier Synchronization and Signal Detection for Dual Carrier 448 Gb/s PDM 16-QAM. , 2013, , .		2
53	450 Gb/s CO-OFDM DP-QPSK superchannels for long-haul transmission with High Spectral Efficiency. , 2013, , .		2
54	Transmission of a DAC-Free 1.12-Tb/s Superchannel with 6-b/s/Hz over 1000 km with Hybrid Raman-EDFA Amplification and 10 Cascaded 175-GHz Flexible ROADMs. , 2013, , .		3

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55	Cascade of amplitude- and phase-modulator in four different configurations of superchannel generation. , 2013, , .		3
56	Spectrally-Efficient 448-Gb/s dual-carrier PDM-16QAM channel in a 75-GHz grid. , 2013, , .		7
57	Enhanced Digital Polarization Demultiplexation via CMA Step Size Adaptation for PM-QPSK Coherent Receivers. , 2012, , .		4
58	Gb/s Dual-Carrier PDM-RZ-16QAM on 75-GHz Grid over 720 km with 10 Flexi-Grid ROADMs. , 2012, , .		0
59	112 Gb/s DP-QPSK coherent optical transmission over 3000 km using a complete set of digital signal processing algorithms. , 2011, , .		2
60	Simple feed-forward wide-range frequency offset estimator for optical coherent receivers. Optics Express, 2011, 19, B323.	3.4	16
61	Simple Feed-Forward Wide-Range Frequency Offset Estimator for Optical Coherent Receivers. , 2011, , .		6
62	Enhanced Dynamic Equalization Performance of a 112 Gb/s PM-QPSK Coherent Receiver by Gain Adaptation in CMA. , 2011, , .		0