

Edson Porto da Silva

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9207061/publications.pdf>

Version: 2024-02-01

62
papers

952
citations

623734

14
h-index

477307

29
g-index

62
all docs

62
docs citations

62
times ranked

908
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-source chip-based frequency comb enabling extreme parallel data transmission. Nature Photonics, 2018, 12, 469-473.	31.4	165
2	Dual-polarization nonlinear Fourier transform-based optical communication system. Optica, 2018, 5, 263.	9.3	111
3	Constellation Shaping for WDM Systems Using 256QAM/1024QAM With Probabilistic Optimization. Journal of Lightwave Technology, 2016, 34, 5146-5156.	4.6	105
4	Widely Linear Equalization for IQ Imbalance and Skew Compensation in Optical Coherent Receivers. Journal of Lightwave Technology, 2016, 34, 3577-3586.	4.6	85
5	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
6	Dual-Polarization NFDM Transmission With Continuous and Discrete Spectral Modulation. Journal of Lightwave Technology, 2019, 37, 2335-2343.	4.6	41
7	Dual-Polarization NFDM Transmission Using Distributed Raman Amplification and NFT-Domain Equalization. IEEE Photonics Technology Letters, 2018, 30, 1983-1986.	2.5	33
8	Optimization of DP-M-QAM Transmitter Using Cooperative Coevolutionary Genetic Algorithm. Journal of Lightwave Technology, 2018, 36, 2450-2462.	4.6	29
9	Demonstration of EDFA Cognitive Gain Control via GMPLS for Mixed Modulation Formats in Heterogeneous Optical Networks. , 2013, , .		24
10	Characterization and Optimization of Four-Wave-Mixing Wavelength Conversion System. Journal of Lightwave Technology, 2019, 37, 5628-5636.	4.6	21
11	Nonlinear Phase Noise Compensation in Experimental WDM Systems With 256QAM. Journal of Lightwave Technology, 2017, 35, 1438-1443.	4.6	18
12	Quaternary Polarization-Multiplexed Subsystem for High-Capacity IM/DD Optical Data Links. Journal of Lightwave Technology, 2015, 33, 1408-1416.	4.6	17
13	Wavelength conversion of QAM signals in a low loss CMOS compatible spiral waveguide. APL Photonics, 2017, 2, 046105.	5.7	17
14	Perturbation-Based FEC-Assisted Iterative Nonlinearity Compensation for WDM Systems. Journal of Lightwave Technology, 2019, 37, 875-881.	4.6	17
15	Simple feed-forward wide-range frequency offset estimator for optical coherent receivers. Optics Express, 2011, 19, B323.	3.4	16
16	Single-Source AlGaAs Frequency Comb Transmitter for 661 Tbit/s Data Transmission in a 30-core Fiber. , 2016, , .		15
17	Experimental analysis of pilot-based equalization for probabilistically shaped WDM systems with 256QAM/1024QAM. , 2017, , .		14
18	Joint Iterative Carrier Synchronization and Signal Detection Employing Expectation Maximization. Journal of Lightwave Technology, 2014, 32, 1608-1615.	4.6	12

#	ARTICLE	IF	CITATIONS
19	Probabilistically Shaped Rate-Adaptive Polar-Coded 256-QAM WDM Optical Transmission System. Journal of Lightwave Technology, 2020, 38, 1800-1808.	4.6	11
20	Combined Optical and Electrical Spectrum Shaping for High-Baud-Rate Nyquist-WDM Transceivers. IEEE Photonics Journal, 2016, 8, 1-11.	2.0	10
21	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
22	Probabilistic Shaping for the Optical Phase Conjugation Channel. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-16.	2.9	9
23	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
24	Focusing Over Optical Fiber Using Time Reversal. IEEE Photonics Technology Letters, 2015, 27, 631-634.	2.5	8
25	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
26	Lumped Compensation of Nonlinearities based on Optical Phase Conjugation. Journal of Lightwave Technology, 2022, 40, 681-691.	4.6	8
27	Kramers-Kronig Detection with Adaptive Rates for 909.5 Tbit/s Dense SDM and WDM Data Channels. , 2018, , .		7
28	Spectrally-Efficient 448-Gb/s dual-carrier PDM-16QAM channel in a 75-GHz grid. , 2013, , .		7
29	Simple Feed-Forward Wide-Range Frequency Offset Estimator for Optical Coherent Receivers. , 2011, , .		6
30	Silicon Chip-to-Chip Mode-Division Multiplexing. , 2018, , .		6
31	Quad-polarization transmission for high-capacity IM/DD links. , 2014, , .		5
32	Advances in the First Brazilian Project on an HTS Power Cable. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	5
33	Adaptive Turbo Equalization for Nonlinearity Compensation in WDM Systems. Journal of Lightwave Technology, 2021, 39, 7124-7134.	4.6	5
34	All-optical OFDM demultiplexing with optical partial Fourier transform and coherent sampling. Optics Letters, 2019, 44, 443.	3.3	5
35	Joint IQ Skew and Chromatic Dispersion Estimation for Coherent Optical Communication Receivers. , 2016, , .		5
36	Enhanced Digital Polarization Demultiplexation via CMA Step Size Adaptation for PM-QPSK Coherent Receivers. , 2012, , .		4

#	ARTICLE	IF	CITATIONS
37	An Experimental Demonstration of Rate-Adaptation Using Shaped Polar Codes for Flexible Optical Networks. <i>Journal of Lightwave Technology</i> , 2019, 37, 3357-3364.	4.6	4
38	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
39	Cascade of amplitude- and phase-modulator in four different configurations of superchannel generation. , 2013, , .		3
40	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
41	100 Gbps IM/DD links using quad-polarization: Performance, complexity, and power dissipation. <i>Optics Express</i> , 2015, 23, 19954.	3.4	3
42	Performance emulation and parameter estimation for nonlinear fibre-optic links. , 2016, , .		3
43	Block Error Detection Driven Nonlinearity Compensation for Optical Fiber Communications. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 461-464.	2.5	3
44	FEC-assisted Perturbation-based Nonlinear Compensation for WDM Systems. , 2018, , .		3
45	112 Gb/s DP-QPSK coherent optical transmission over 3000 km using an complete set of digital signal processing algorithms. , 2011, , .		2
46	Joint Iterative Carrier Synchronization and Signal Detection for Dual Carrier 448 Gb/s PDM 16-QAM. , 2013, , .		2
47	450 Gb/s CO-OFDM DP-QPSK superchannels for long-haul transmission with High Spectral Efficiency. , 2013, , .		2
48	Impairment mitigation in superchannels with digital backpropagation and MLS. <i>Optics Express</i> , 2015, 23, 29493.	3.4	2
49	Optimizing the Achievable Rates of Tricky Channels: A Probabilistic Shaping for OPC Channel Example. , 2018, , .		2
50	Optical processing and manipulation of wavelength division multiplexed signals. , 2020, , 233-299.		2
51	Nonlinear Compensation with Modified Adaptive Digital Backpropagation in Flexigrid Networks. , 2015, , .		2
52	Experimental evaluation of prefiltering for 56Gbaud DP-QPSK signal transmission in 75GHz WDM grid. <i>Optical Fiber Technology</i> , 2014, 20, 39-43.	2.7	1
53	DSP-based focusing over optical fiber using time reversal. , 2014, , .		1
54	Low-penalty up to 16-QAM wavelength conversion in a low loss CMOS compatible spiral waveguide. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
55	Performance of Multi-Channel DBP with Long-haul Frequency-Referenced Transmission. , 2016, , .		1
56	A WDM transmission in a 62.5-GHz grid over 452 km using 38#x00D7;400-Gb/s Superchannels at 6.4 b/s/Hz. , 2013, , .		0
57	Toward ultra-broadband elastic optical networks: reconfigurable quasi-Nyquist transmitter for metro- and long-haul scenarios. , 2013, , .		0
58	FEC-assisted Nonlinearity Compensation for Coherent Optical Receivers. , 2021, , .		0
59	Enhanced Dynamic Equalization Performance of a 112 Gb/s PM-QPSK Coherent Receiver by Gain Adaptation in CMA. , 2011, , .		0
60	Gb/s Dual-Carrier PDM-RZ-16QAM on 75-GHz Grid over 720 km with 10 Flexi-Grid ROADMs passes. , 2012, , .		0
61	Mitigation of Linear and Nonlinear Impairments in Spectrally Efficient Superchannels. , 2015, , .		0
62	Wavelength Conversion of QPSK and 16-QAM Coherent Signals in a CMOS Compatible Spiral Waveguide. , 2016, , .		0