

Aldu00e1rio C Bordonalli

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Influence of exterior acoustic noise on narrow linewidth laser measurements using self-homodyne optical fiber interferometer. <i>Optik</i> , 2020, 204, 164101.	2.9	4
2	High Capacity Unrepeated Optical Transmission over Hybrid Fibers. , 2019, , .		0
3	System Design for High-Capacity Unrepeated Optical Transmission. <i>Journal of Lightwave Technology</i> , 2019, 37, 1246-1253.	4.6	14
4	RF Power and DC Biasing Analyses to Generate Flat Optical Frequency Combs in Dual-drive Mach-Zehnder Modulators. , 2019, , .		1
5	SOA-based Optical Fiber Loop for Optical Frequency Comb Generation Using Different Modulation Approaches. , 2019, , .		1
6	Optical Frequency Comb Generation by Dual Drive Mach-Zehnder Modulator with Algorithm-assisted Efficient Amplitude Equalization. , 2019, , .		0
7	Optical Frequency Comb Generation Using Ultralong SOA and Different Amplification Methods in MZM-based Optical Fiber Loops. , 2019, , .		0
8	Flatness Improved Comb Generation by Electro-optic Phase and Mach-Zehnder Modulators Cascade. , 2019, , .		1
9	Computational Model and Parameter Extraction of High Speed Semiconductor Optical Amplifier Space Switches. <i>Journal of Microwaves, Optoelectronics and Electromagnetic Applications</i> , 2018, 17, 646-660.	0.7	4
10	Flattened Optical Frequency Combs Generated by Algorithm-assisted Parallel Electro-optical Phase Modulators. , 2018, , .		3
11	Single-Carrier 400G Unrepeated WDM Transmission over 443.1 km. , 2017, , .		15
12	Unrepeated WDM Transmission of Single-Carrier 400G (66-GBd PDM-16QAM) over 403 km. , 2017, , .		14
13	Amplitude Equalization Analysis of Optical Frequency Combs Generated by Dual Drive Mach-Zehnder Modulator for High Capacity Optical Transmissions. , 2017, , .		0
14	Unrepeated Transmission of 10×400 Gbit/s Over 370 km via Amplification Map Optimization. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 2289-2292.	2.5	11
15	SDN Dual-optimization Application for EDFAs and WSS-based ROADMs. , 2015, , .		3
16	Digital signal processing for spectrally-sliced coherent optical receivers. , 2015, , .		2
17	WSS/EDFA-based optimization strategies for software defined optical networks. , 2015, , .		3
18	Optical injection locking to optical frequency combs for superchannel coherent detection. <i>Optics Express</i> , 2015, 23, 1547.	3.4	78

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19	Multidimensional optimization of optical spectral shaping for fiber nonlinearities mitigation in high baud-rate systems. , 2014, , .		9
20	Global WSS-based equalization strategies for SDN metropolitan mesh optical networks. , 2014, , .		11
21	AGC EDFA transient suppression algorithm assisted by cognitive neural network. , 2014, , .		1
22	Global ROADM-Based Spectrum Equalizer in SDN Architecture for QoT Optimization at DWDM Networks. , 2014, , .		7
23	Experimental-based subsystem models for simulation of heterogeneous optical networks. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2014, 13, 197-213.	0.7	0
24	A WDM transmission in a 62.5-GHz grid over 452 km using 400-Gb/s Superchannels at 6.4 b/s/Hz. , 2013, , .		0
25	Optical Injection Locking of a DFB laser to a 10-GHz Spaced Frequency Comb Signal. , 2013, , .		0
26	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
27	Performance comparison of RZ pulse formats in PDM-16QAM high rates transmissions with optical pre-filtering. Proceedings of SPIE, 2013, , .	0.8	0
28	Generation and Coherent Detection of a 400-Gb/s CO-OFDM Superchannel with 6.4-b/s/Hz. , 2013, , .		0
29	Spectrally-Efficient 448-Gb/s dual-carrier PDM-16QAM channel in a 75-GHz grid. , 2013, , .		7
30	Enhanced Digital Polarization Demultiplexation via CMA Step Size Adaptation for PM-QPSK Coherent Receivers. , 2012, , .		4
31	Improvement in dynamic equalization performance of a coherent receiver by CMA gain adaptation. , 2011, , .		0
32	2.5 Gbits/s burst mode receiver for NG-PON. , 2011, , .		1
33	Simple feed-forward wide-range frequency offset estimator for optical coherent receivers. Optics Express, 2011, 19, B323.	3.4	16
34	Parallel three-dimensional full-time domain applied to photonic structures. IET Optoelectronics, 2011, 5, 40-45.	3.3	2
35	Dynamic gain equalization for erbium doped fiber amplifiers based on optoceramic sinusoidal filter cascade. Microwave and Optical Technology Letters, 2011, 53, 623-626.	1.4	3
36	Wide-range frequency offset estimator for DSP-based optical coherent receivers. , 2011, , .		1

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37	Enhanced Dynamic Equalization Performance of a 112 Gb/s PM-QPSK Coherent Receiver by Gain Adaptation in CMA. , 2011, , .		0
38	Luminescence of PbS quantum dots spread on the core surface of a silica microstructured optical fiber. Journal of Non-Crystalline Solids, 2010, 356, 2397-2401.	3.1	7
39	Dynamic Gain Spectrum Equalizer for EDFAs in Reconfigurable Optical Networks. , 2010, , .		0
40	Empirical Characterization of Wavelength Conversion for Phase Modulated Channels Based on SOA-FWM Properties. , 2010, , .		1
41	Digital Filtering Algorithms for 112Gb/s Dual Polarization QPSK Optical Systems with Coherent Detection. , 2010, , .		0
42	Minimization of gain error due to Spectral Hole Burning using HGC-EDFA with generalized dynamic gain range. , 2009, , .		0
43	Luminescence of PbS Quantum Dots Entrained in Silica Microstructured Fiber Samples. , 2009, , .		0
44	Minimization of Gain Error due to Spectral Hole Burning using HGC-EDFA with Generalized Dynamic Gain Range. , 2009, , .		0
45	Potential for 1550-nm Broadband Amplification by Using Different Er3+- Doped Tellurite Fiber Structures. , 2009, , .		0
46	Characterization of Er3+-Doped Tellurite Fiber Samples for Broadband Amplification at 1550 nm. , 2008, , .		0
47	Improved Receiver Sensitivity by Using an Injection-Locked Laser and Double-Pass EDFA Scheme. , 2008, , .		0
48	A comparative analysis of doubled-pass erbium doped fiber amplifiers considering different signal-return schemes. , 2007, , .		0
49	Cost-effective double pass erbium doped fiber amplifier with an embedded dispersion compensation module and all-optical gain control for wavelength-division multiplexing applications. Optical Engineering, 2007, 46, 105002.	1.0	0
50	An EDFA hybrid gain control technique for extended input power and dynamic gain ranges with suppressed transients. , 2007, , .		3
51	Analysis of electromagnetic structures using vectorial and orthogonal finite elements method. , 2007, , .		0
52	New set of 3D orthogonal edge basis functions for the vector wave equation solution. Microwave and Optical Technology Letters, 2007, 49, 2224-2228.	1.4	3
53	New Set of 3D Orthogonal Edge Basis Functions for Simulation of Waveguide Structures. , 2007, , .		0
54	ASE Characterization of an Er3+-doped Microstructured Tellurite Fiber for Broadband Amplification at 1550 nm. , 2007, , .		0

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55	Noise Figure of Gain Controlled EDFAs with Extended Dynamic Gain Range. , 2007, , .		0
56	Time-domain full-band method using orthogonal edge basis functions. IEEE Photonics Technology Letters, 2006, 18, 52-54.	2.5	11
57	A New 3D Time Domain Full-Band Method Using Orthogonal Edge Basis Functions for Photonics Applications. , 2006, , JWD85.		0
58	Gain Controlled EDFA with Extended Dynamic Gain Range. , 2006, , FWA2.		0
59	A multilevel gain all-optical gain-controlled EDFA with suppressed relaxation oscillations. Microwave and Optical Technology Letters, 2006, 48, 1222-1225.	1.4	6
60	Evaluation of transient dynamic impact in gain controlled EDFAs. , 2006, , .		0
61	Novel 3D orthogonal basis functions for the vector wave equation solution. , 2006, , .		0
62	Cost-Effective Multi-Functional EDFA for Metropolitan Area Networks. , 2006, , .		0
63	All-Optical Gain Controlled EDFAs with Fast Variable Optical Attenuators for WDM Network Applications. , 2005, , FWH5.		0
64	A New Time Domain Full-Band Method Using Orthogonal Edge Basis Functions for Photonics Applications. , 2005, , .		0
65	All-Optical Gain Controlled EDFA: Design and System Impact. Lecture Notes in Computer Science, 2004, , 727-734.	1.3	4
66	Simulation and measurements of current-injected gain control in semiconductor optical amplifiers. Microwave and Optical Technology Letters, 2004, 41, 477-481.	1.4	3
67	Design Requirements of All-Optical Gain Controlled EDFAs for WDM Network Applications. , 2004, , .		2
68	Picosecond electro-optic switching time based on pre-pulse induced chirp filtering in semiconductor optical amplifiers. , 2003, , .		2
69	Carrier reuse with gain compression and feed-forward semiconductor optical amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 77-81.	4.6	35
70	Guest editors' overview. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 1-3.	4.6	5
71	Optical regeneration using a feedforward semiconductor optical amplifier with chirp-controlled filtering. Microwave and Optical Technology Letters, 2001, 30, 438-442.	1.4	11
72	High-performance phase locking of wide linewidth semiconductor lasers by combined use of optical injection locking and optical phase-lock loop. Journal of Lightwave Technology, 1999, 17, 328-342.	4.6	168

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73	Optical 2R remodulator using feedforward control of semiconductor optical amplifier gain. Microwave and Optical Technology Letters, 1999, 21, 39-42.	1.4	7
74	High-performance heterodyne optical injection phase-lock loop using wide linewidth semiconductor lasers. IEEE Photonics Technology Letters, 1998, 10, 427-429.	2.5	39
75	Generation of microwave signals by active mode locking in a gain bandwidth restricted laser structure. IEEE Photonics Technology Letters, 1996, 8, 151-153.	2.5	34
76	High-performance homodyne optical injection phase-lock loop using wide-linewidth semiconductor lasers. IEEE Photonics Technology Letters, 1996, 8, 1217-1219.	2.5	16
77	Optical injection locking and phase-lock loop combined systems. Optics Letters, 1994, 19, 4.	3.3	55
78	High Performance Heterodyne Optical Injection Phase-lock Loop Using Wide Linewidth Semiconductor Lasers. , 0, , .		2
79	SOASim: a simulator for semiconductor optical amplifier with feed gain control. , 0, , .		1
80	Optical carrier reuse with gain compression and feed-forward semiconductor optical amplifiers. , 0, , .		2
81	Microwave signal generation by mixing of modulated optical carriers in saturated semiconductor optical amplifiers. , 0, , .		2
82	Remodulation and filtering of WDM channels using the optical injection locking technique. , 0, , .		1
83	An EDFA theoretical analysis considering different configurations and pumping wavelengths. , 0, , .		7
84	A theoretical analysis of optical phase-lock loop acquisition and tracking for WDM receiver applications. , 0, , .		0
85	Investigation of FEC improvement in a dispersion limited direct modulated 2.5 Gb/s transmission experiment. , 0, , .		0
86	A novel and efficient time domain full-band method for photonics applications. , 0, , .		2
87	An all-optical gain controlled EDFA using a fast variable optical attenuator. , 0, , .		0