Aldu00e1rio C Bordonalli

List of Publications by Year in descending order

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87 papers

648 citations

11 h-index 23 g-index

87 all docs 87 docs citations

87 times ranked

498 citing authors

#	Article	IF	CITATIONS
1	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
2	Optical injection locking to optical frequency combs for superchannel coherent detection. Optics Express, 2015, 23, 1547.	3.4	78
3	Optical injection locking and phase-lock loop combined systems. Optics Letters, 1994, 19, 4.	3.3	55
4	High-performance heterodyne optical injection phase-lock loop using wide linewidth semiconductor lasers. IEEE Photonics Technology Letters, 1998, 10, 427-429.	2.5	39
5	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
6	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
7	High-performance homodyne optical injection phase-lock loop using wide-linewidth semiconductor lasers. IEEE Photonics Technology Letters, 1996, 8, 1217-1219.	2.5	16
8	Simple feed-forward wide-range frequency offset estimator for optical coherent receivers. Optics Express, 2011, 19, B323.	3.4	16
9	Single-Carrier 400G Unrepeatered WDM Transmission over 443.1 km., 2017,,.		15
10	System Design for High-Capacity Unrepeatered Optical Transmission. Journal of Lightwave Technology, 2019, 37, 1246-1253.	4.6	14
11	Unrepeatered WDM Transmission of Single-Carrier 400G (66-GBd PDM-16QAM) over 403 km., 2017, , .		14
12	Optical regeneration using a feedforward semiconductor optical amplifier with chirp-controlled filtering. Microwave and Optical Technology Letters, 2001, 30, 438-442.	1.4	11
13	Time-domain full-band method using orthogonal edge basis functions. IEEE Photonics Technology Letters, 2006, 18, 52-54.	2.5	11
14	Global WSS-based equalization strategies for SDN metropolitan mesh optical networks. , 2014, , .		11
15	Unrepeatered Transmission of <inline-formula> <tex-math notation="LaTeX">\$10imes 400ext{G}\$ </tex-math> </inline-formula> Over 370 km via Amplification Map Optimization. IEEE Photonics Technology Letters, 2016, 28, 2289-2292.	2.5	11
16	Multidimensional optimization of optical spectral shaping for fiber nonlinearities mitigation in high baud-rate systems. , 2014, , .		9
17	Optical 2R remodulator using feedforward control of semiconductor optical amplifier gain. Microwave and Optical Technology Letters, 1999, 21, 39-42.	1.4	7
18	An EDFA theoretical analysis considering different configurations and pumping wavelengths., 0,,.		7

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19	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
20	Global ROADM-Based Spectrum Equalizer in SDN Architecture for QoT Optimization at DWDM Networks. , 2014, , .		7
21	Spectrally-Efficient 448-Gb/s dual-carrier PDM-16QAM channel in a 75-GHz grid. , 2013, , .		7
22	A multilevel gain all-optical gain-controlled EDFA with suppressed relaxation oscillations. Microwave and Optical Technology Letters, 2006, 48, 1222-1225.	1.4	6
23	Guest editors' overview. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 1-3.	4.6	5
24	All-Optical Gain Controlled EDFA: Design and System Impact. Lecture Notes in Computer Science, 2004, , 727-734.	1.3	4
25	Enhanced Digital Polarization Demultiplexation via CMA Step Size Adaptation for PM-QPSK Coherent Receivers. , 2012, , .		4
26	Computational Model and Parameter Extraction of High Speed Semiconductor Optical Amplifier Space Switches. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2018, 17, 646-660.	0.7	4
27	Influence of exterior acoustic noise on narrow linewidth laser measurements using self-homodyne optical fiber interferometer. Optik, 2020, 204, 164101.	2.9	4
28	Simulation and measurements of current-injected gain control in semiconductor optical amplifiers. Microwave and Optical Technology Letters, 2004, 41, 477-481.	1.4	3
29	An EDFA hybrid gain control technique for extended input power and dynamic gain ranges with suppressed transients. , 2007, , .		3
30	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
31	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
32	Transmission of a DAC-Free 1.12 -Tb/s Superchannel with 6-b/s/Hz over $1000~\rm km$ with Hybrid Raman-EDFA Amplification and $10~\rm Cascaded~175$ -GHz Flexible ROADMs. , 2013 , , .		3
33	SDN Dual-optimization Application for EDFAs and WSS-based ROADMs. , 2015, , .		3
34	WSS/EDFA-based optimization strategies for software defined optical networks. , 2015, , .		3
35	Flattened Optical Frequency Combs Generated by Algorithm-assisted Parallel Electro-optical Phase Modulators. , 2018, , .		3
36	High Performance Heterodyne Optical Injection Phase-lock Loop Using Wide Linewidth Semiconductor Lasers. , 0, , .		2

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37	Optical carrier reuse with gain compression and feed-forward semiconductor optical amplifiers. , 0, , .		2
38	Microwave signal generation by mixing of modulated optical carriers in saturated semiconductor optical amplifiers. , 0 , , .		2
39	A novel and efficient time domain full-band method for photonics applications. , 0, , .		2
40	Parallel three-dimensional full-time domain applied to photonic structures. IET Optoelectronics, 2011, 5, 40-45.	3.3	2
41	Digital signal processing for spectrally-sliced coherent optical receivers. , 2015, , .		2
42	Picosecond electro-optic switching time based on pre-pulse induced chirp filtering in semiconductor optical amplifiers. , 2003, , .		2
43	Design Requirements of All-Optical Gain Controlled EDFAs for WDM Network Applications. , 2004, , .		2
44	SOASim: a simulator for semiconductor optical amplifier with feed gain control., 0,,.		1
45	Remodulation and filtering of WDM channels using the optical injection locking technique. , 0, , .		1
46	2.5 Gbits/s burst mode receiver for NG-PON. , 2011, , .		1
47	Wide-range frequency offset estimator for DSP-based optical coherent receivers., 2011,,.		1
48	AGC EDFA transient suppression algorithm assisted by cognitive neural network. , 2014, , .		1
49	Empirical Characterization of Wavelength Conversion for Phase Modulated Channels Based on SOA-FWM Properties. , 2010, , .		1
50	RF Power and DC Biasing Analyses to Generate Flat Optical Frequency Combs in Dual-drive Mach-Zenhder Modulators. , 2019, , .		1
51	SOA-based Optical Fiber Loop for Optical Frequency Comb Generation Using Different Modulation Approaches. , 2019, , .		1
52	Flatness Improved Comb Generation by Electro-optic Phase and Mach-Zehnder Modulators Cascade. , 2019, , .		1
53	A theoretical analysis of optical phase-lock loop acquisition and tracking for WDM receiver applications. , 0, , .		0
54	Investigation of FEC improvement in a dispersion limited direct modulated 2.5 Gb/s transmission experiment. , 0, , .		0

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55	All-Optical Gain Controlled EDFAs with Fast Variable Optical Attenuators for WDM Network Applications. , 2005, , FWH5.		О
56	An all-optical gain controlled EDFA using a fast variable optical attenuator. , 0, , .		0
57	A New 3D Time Domain Full-Band Method Using Orthogonal Edge Basis Functions for Photonics Applications. , 2006, , JWD85.		O
58	Gain Controlled EDFA with Extended Dynamic Gain Range. , 2006, , FWA2.		0
59	Evaluation of transient dynamic impact in gain controlled EDFAs. , 2006, , .		O
60	Novel 3D orthogonal basis functions for the vector wave equation solution. , 2006, , .		О
61	A comparative analysis of doubled-pass erbium doped fiber amplifiers considering different signal-return schemes. , 2007, , .		O
62	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	О
63	Analysis of electromagnetic structures using vectorial and orthogonal finite elements method. , 2007, , .		O
64	Minimization of gain error due to Spectral Hole Burning using HGC-EDFA with generalized dynamic gain range., 2009,,.		0
65	Improvement in dynamic equalization performance of a coherent receiver by CMA gain adaptation. , $2011, \ldots$		O
66	A WDM transmission in a 62.5-GHz grid over 452 km using 3×400-Gb/s Superchannels at 6.4 b/s/Hz. , 2013, , .		0
67	Optical Injection Locking of a DFB laser to a 10-GHz Spaced Frequency Comb Signal. , 2013, , .		О
68	Performance comparison of RZ pulse formats in PDM-16QAM high rates transmissions with optical pre-filtering. Proceedings of SPIE, 2013, , .	0.8	О
69	Generation and Coherent Detection of a 400-Gb/s CO-OFDM Superchannel with 6.4-b/s/Hz., 2013, , .		O
70	High Capacity Unrepeatered Optical Transmission over Hybrid Fibers. , 2019, , .		0
71	A New Time Domain Full-Band Method Using Orthogonal Edge Basis Functions for Photonics Applications. , 2005, , .		O
72	Cost-Effective Multi-Functional EDFA for Metropolitan Area Networks. , 2006, , .		0

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73	New Set of 3D Orthogonal Edge Basis Functions for Simulation of Waveguide Structures. , 2007, , .		0
74	ASE Characterization of an Er3+-doped Microstructured Tellurite Fiber for Broadband Amplification at 1550 nm., 2007, , .		0
75	Noise Figure of Gain Controlled EDFAs with Extended Dynamic Gain Range. , 2007, , .		O
76	Characterization of Er3+-Doped Tellurite Fiber Samples for Broadband Amplification at 1550 nm., 2008,		0
77	Improved Receiver Sensitivity by Using an Injection-Locked Laser and Double-Pass EDFA Scheme. , 2008, , .		0
78	Luminescence of PbS Quantum Dots Entrained in Silica Microstructured Fiber Samples., 2009, , .		0
79	Minimization of Gain Error due to Spectral Hole Burning using HGC-EDFA with Generalized Dynamic Gain Range. , 2009, , .		0
80	Potential for 1550-nm Broadband Amplification by Using Different Er3+- Doped Tellurite Fiber Structures. , 2009, , .		0
81	Dynamic Gain Spectrum Equalizer for EDFAs in Reconfigurable Optical Networks. , 2010, , .		0
82	Digital Filtering Algorithms for $112\mbox{Gb/s}$ Dual Polarization QPSK Optical Systems with Coherent Detection. , $2010,$, .		0
83	Enhanced Dynamic Equalization Performance of a $112~\mathrm{Gb/s}$ PM-QPSK Coherent Receiver by Gain Adaptation in CMA. , $2011,$, .		0
84	Experimental-based subsystem models for simulation of heterogeneous optical networks. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2014, 13, 197-213.	0.7	0
85	Amplitude Equalization Analysis of Optical Frequency Combs Generated by Dual Drive Mach-Zehnder Modulator for High Capacity Optical Transmissions. , 2017, , .		0
86	Optical Frequency Comb Generation by Dual Drive Mach-Zehnder Modulator with Algorithm-assisted Efficient Amplitude Equalization. , 2019, , .		0
87	Optical Frequency Comb Generation Using Ultralong SOA and Different Amplification Methods in MZM-based Optical Fiber Loops. , 2019, , .		O