Stylianos Sygletos

List of Publications by Year
in descending order

45 papers	1,397 citations	567281 15 h-index	713466 21 g-index
45 all docs	45 docs citations	45 times ranked	1097 citing authors

#	Article	IF	Citations
1	Cost-effective digital coherent short-reach transmission system with D8QAM and low-complexity DSP. Optics Express, 2021, 29, 11892.	3.4	2
2	Advanced Convolutional Neural Networks for Nonlinearity Mitigation in Long-Haul WDM Transmission Systems. Journal of Lightwave Technology, 2021, 39, 2397-2406.	4.6	46
3	Convolutional Neural Networks with Multiple Layers per Span for Nonlinearity Mitigation in Long-Haul WDM Transmission Systems. , 2021, , .		1
4	Nonlinear Performance of Few-Mode Fiber Links With Intermediate Coupling. Journal of Lightwave Technology, 2019, 37, 989-999.	4.6	20
5	Conjugate nonlinear-optical loop mirror (Conj-NOLM)-based phase-preserving multilevel amplitude regenerator. Optics Express, 2019, 27, 19940.	3.4	19
6	Nonlinearity Compensation Techniques Using Machine Learning. , 2019, , .		1
7	Overcoming degradation in spatial multiplexing systems with stochastic nonlinear impairments. Scientific Reports, 2018, 8, 17539.	3.3	14
8	Mitigation of Amplitude and Phase Distortions by Using Conjugate-NOLM Regenerator. , 2018, , .		0
9	Impact of Linear Mode Coupling on the Nonlinear Transmission Performance of Few-Mode Fibres. , 2018, , .		0
10	Amplifier-free 200-Gb/s tandem SSB doubly differential QPSK signal transmission over 80-km SSMF with simplified receiver-side DSP. Optics Express, 2018, 26, 8418.	3.4	7
11	Equalization performance and complexity analysis of dynamic deep neural networks in long haul transmission systems. Optics Express, 2018, 26, 32765.	3.4	67
12	Semi-Analytical Modelling of Linear Mode Coupling in Few-Mode Fibers. Journal of Lightwave Technology, 2017, 35, 4011-4022.	4.6	39
13	All-optical multilevel regeneration in nonlinear optical loop mirror. , 2017, , .		1
14	Ripple distribution for nonlinear fiber-optic channels. Optics Express, 2017, 25, 2228.	3.4	15
15	Nonlinear Transmission Performance in Delay-Managed Few-Mode Fiber Links with Intermediate Coupling. , 2017, , .		7
16	Sparse identification for nonlinear optical communication systems: SINO method. Optics Express, 2016, 24, 30433.	3.4	80
17	Advantages of Strong Mode Coupling for Suppression of Nonlinear Distortion in Few-Mode Fibers. , 2016, , .		13
18	Experimental Implementation of an All-Optical Interferometric Drop, Add, and Extract Multiplexer for Superchannels. Journal of Lightwave Technology, 2015, 33, 1351-1357.	4.6	27

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19	Information theory analysis of regenerative channels. , 2015, , .		0
20	All-optical add-drop multiplexer for OFDM signals. , 2015, , .		2
21	Experimental demonstration of an all-optical interferometric drop, add, and extract multiplexer for OFDM super-channel. , 2015, , .		0
22	Regenerative Fourier transformation for dual-quadrature regeneration of multilevel rectangular QAM. Optics Letters, 2015, 40, 3117.	3.3	26
23	Impact of Linear Mode Coupling on the Group Delay Spread in Few-Mode Fibers. , 2015, , .		15
24	All-Optical Add-Drop Multiplexing of OFDM Signals. , 2015, , .		0
25	Injection locking-based pump recovery for phase-sensitive amplified links. Optics Express, 2013, 21, 14512.	3.4	134
26	Optimal packing for cascaded regenerative transmission based on phase sensitive amplifiers. Optics Express, 2013, 21, 31201.	3.4	10
27	Phase Sensitive Signal Processing using Semiconductor Optical Amplifiers. , 2013, , .		7
28	All-optical OFDM and distributed Raman amplification: Challenges to enable high capacities and extend reach. , 2012, , .		1
29	Stabilization of self-coherent OFDM with injection locked laser. , 2012, , .		2
30	Multi-wavelength regeneration of phase encoded signals based on phase sensitive amplifiers. , 2012, , .		3
31	Nonlinear soliton propagation in a few mode optical fibre. , 2012, , .		1
32	Optical Frequency Comb Generation Using Dual-Mode Injection-Locking of Quantum-Dash Mode-Locked Lasers: Properties and Applications. IEEE Journal of Quantum Electronics, 2012, 48, 1327-1338.	1.9	37
33	Enhanced Self-Coherent OFDM by the Use of Injection Locked Laser. , 2012, , .		10
34	Phase Synchronization of a Two-Channel Phase-Sensitive Amplifier based on Optical Injection-Locking of InP Quantum-Dash Mode-Locked Lasers. , 2012, , .		1
35	DPSK Signal Regeneration With a Dual-Pump Nondegenerate Phase-Sensitive Amplifier. IEEE Photonics Technology Letters, 2011, 23, 516-518.	2.5	27
36	Comparison of Frequency Symmetric Signal Generation From a BPSK Input Using Fiber and Semiconductor-Based Nonlinear Elements. IEEE Photonics Technology Letters, 2011, 23, 651-653.	2.5	7

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37	Novel real-time homodyne coherent receiver using a feed-forward based carrier extraction scheme for phase modulated signals. Optics Express, 2011, 19, 8320.	3.4	67
38	Novel synchronous DPSK optical regenerator based on a feed-forward based carrier extraction scheme. Optics Express, 2011, 19, 9445.	3.4	4
39	Phase synchronization scheme for a practical phase sensitive amplifier of ASK-NRZ signals. Optics Express, 2011, 19, 12384.	3.4	10
40	A practical phase sensitive amplification scheme for two channel phase regeneration. Optics Express, 2011, 19, B938.	3.4	32
41	Generation of frequency symmetric signals from a BPSK input for Phase Sensitive Amplification. , 2010, , .		25
42	All-optical phase and amplitude regenerator for next-generation telecommunications systems. Nature Photonics, 2010, 4, 690-695.	31.4	595
43	Phase locking and carrier extraction schemes for phase sensitive amplification. , 2010, , .		4
44	Novel carrier extraction scheme for phase modulated signals using feed-forward based modulation stripping. , 2010, , .		4
45	All-optical phase regeneration of 40Gbit/s DPSK signals in a black-box phase sensitive amplifier. , 2010, , .		14