

# Stylianos Sygletos

## List of Publications by Year in descending order

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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	All-optical phase and amplitude regenerator for next-generation telecommunications systems. Nature Photonics, 2010, 4, 690-695.	31.4	595
2	Injection locking-based pump recovery for phase-sensitive amplified links. Optics Express, 2013, 21, 14512.	3.4	134
3	Sparse identification for nonlinear optical communication systems: SINO method. Optics Express, 2016, 24, 30433.	3.4	80
4	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
5	Equalization performance and complexity analysis of dynamic deep neural networks in long haul transmission systems. Optics Express, 2018, 26, 32765.	3.4	67
6	Advanced Convolutional Neural Networks for Nonlinearity Mitigation in Long-Haul WDM Transmission Systems. Journal of Lightwave Technology, 2021, 39, 2397-2406.	4.6	46
7	Semi-Analytical Modelling of Linear Mode Coupling in Few-Mode Fibers. Journal of Lightwave Technology, 2017, 35, 4011-4022.	4.6	39
8	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
9	A practical phase sensitive amplification scheme for two channel phase regeneration. Optics Express, 2011, 19, B938.	3.4	32
10	DPSK Signal Regeneration With a Dual-Pump Nondegenerate Phase-Sensitive Amplifier. IEEE Photonics Technology Letters, 2011, 23, 516-518.	2.5	27
11	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
12	Regenerative Fourier transformation for dual-quadrature regeneration of multilevel rectangular QAM. Optics Letters, 2015, 40, 3117.	3.3	26
13	Generation of frequency symmetric signals from a BPSK input for Phase Sensitive Amplification. , 2010, , .		25
14	Nonlinear Performance of Few-Mode Fiber Links With Intermediate Coupling. Journal of Lightwave Technology, 2019, 37, 989-999.	4.6	20
15	Conjugate nonlinear-optical loop mirror (Conj-NOLM)-based phase-preserving multilevel amplitude regenerator. Optics Express, 2019, 27, 19940.	3.4	19
16	Impact of Linear Mode Coupling on the Group Delay Spread in Few-Mode Fibers. , 2015, , .		15
17	Ripple distribution for nonlinear fiber-optic channels. Optics Express, 2017, 25, 2228.	3.4	15
18	Overcoming degradation in spatial multiplexing systems with stochastic nonlinear impairments. Scientific Reports, 2018, 8, 17539.	3.3	14

#	ARTICLE	IF	CITATIONS
19	All-optical phase regeneration of 40Gbit/s DPSK signals in a black-box phase sensitive amplifier. , 2010, , .		14
20	Advantages of Strong Mode Coupling for Suppression of Nonlinear Distortion in Few-Mode Fibers. , 2016, , .		13
21	Phase synchronization scheme for a practical phase sensitive amplifier of ASK-NRZ signals. Optics Express, 2011, 19, 12384.	3.4	10
22	Optimal packing for cascaded regenerative transmission based on phase sensitive amplifiers. Optics Express, 2013, 21, 31201.	3.4	10
23	Enhanced Self-Coherent OFDM by the Use of Injection Locked Laser. , 2012, , .		10
24	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
25	Nonlinear Transmission Performance in Delay-Managed Few-Mode Fiber Links with Intermediate Coupling. , 2017, , .		7
26	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
27	Phase Sensitive Signal Processing using Semiconductor Optical Amplifiers. , 2013, , .		7
28	Phase locking and carrier extraction schemes for phase sensitive amplification. , 2010, , .		4
29	Novel carrier extraction scheme for phase modulated signals using feed-forward based modulation stripping. , 2010, , .		4
30	Novel synchronous DPSK optical regenerator based on a feed-forward based carrier extraction scheme. Optics Express, 2011, 19, 9445.	3.4	4
31	Multi-wavelength regeneration of phase encoded signals based on phase sensitive amplifiers. , 2012, , .		3
32	Stabilization of self-coherent OFDM with injection locked laser. , 2012, , .		2
33	All-optical add-drop multiplexer for OFDM signals. , 2015, , .		2
34	Cost-effective digital coherent short-reach transmission system with D8QAM and low-complexity DSP. Optics Express, 2021, 29, 11892.	3.4	2
35	All-optical OFDM and distributed Raman amplification: Challenges to enable high capacities and extend reach. , 2012, , .		1
36	Nonlinear soliton propagation in a few mode optical fibre. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
37	All-optical multilevel regeneration in nonlinear optical loop mirror. , 2017, , .		1
38	Convolutional Neural Networks with Multiple Layers per Span for Nonlinearity Mitigation in Long-Haul WDM Transmission Systems. , 2021, , .		1
39	Phase Synchronization of a Two-Channel Phase-Sensitive Amplifier based on Optical Injection-Locking of InP Quantum-Dash Mode-Locked Lasers. , 2012, , .		1
40	Nonlinearity Compensation Techniques Using Machine Learning. , 2019, , .		1
41	Information theory analysis of regenerative channels. , 2015, , .		0
42	Experimental demonstration of an all-optical interferometric drop, add, and extract multiplexer for OFDM super-channel. , 2015, , .		0
43	Mitigation of Amplitude and Phase Distortions by Using Conjugate-NOLM Regenerator. , 2018, , .		0
44	Impact of Linear Mode Coupling on the Nonlinear Transmission Performance of Few-Mode Fibres. , 2018, , .		0
45	All-Optical Add-Drop Multiplexing of OFDM Signals. , 2015, , .		0