Alexey Redyuk

List of Publications by Year in descending order

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		1163117	940533
26	243	8	16
papers	citations	h-index	g-index

26	26	26	202
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Equalization performance and complexity analysis of dynamic deep neural networks in long haul transmission systems. Optics Express, 2018, 26, 32765.	3.4	67
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	Compensation of Nonlinear Impairments Using Inverse Perturbation Theory With Reduced Complexity. Journal of Lightwave Technology, 2020, 38, 1250-1257.	4.6	24
4	Numerical simulation of current experimental 100 Gbit s⁻¹DWDM communication lines. Quantum Electronics, 2015, 45, 75-77.	1.0	13
5	Suppression of WDM four-wave mixing crosstalk in fibre optic parametric amplifier using Raman-assisted pumping. Optics Express, 2015, 23, 27240.	3.4	12
6	Nonlinear Spectrum of Conventional OFDM and WDM Return-to-Zero Signals in Nonlinear Channel. Journal of Lightwave Technology, 2020, 38, 352-358.	4.6	12
7	Timing and phase jitter suppression in coherent soliton transmission. Optics Letters, 2014, 39, 6308.	3.3	11
8	Coherent soliton communication lines. Journal of Experimental and Theoretical Physics, 2014, 119, 787-794.	0.9	8
9	Soliton-sinc optical pulses. Optics Letters, 2020, 45, 5352.	3.3	8
10	Mathematical simulation of an experimental prototype of a high-speed nonreturn-to-zero differential phase-shift-keying fibre-optic communication system. Quantum Electronics, 2011, 41, 929-933.	1.0	7
11	100 Gb sâ^'1coherent dense wavelength division multiplexing system reach extension beyond the limit of electronic dispersion compensation using optical dispersion management. Laser Physics Letters, 2014, 12, 025101.	1.4	7
12	Soliton communication lines based on spectrally efficient modulation formats. Quantum Electronics, 2014, 44, 606-611.	1.0	7
13	Dynamic neural network-based methods for compensation of nonlinear effects in multimode communication lines. Quantum Electronics, 2017, 47, 1147-1149.	1.0	7
14	Simple geometric interpretation of signal evolution in phase-sensitive fibre optic parametric amplifier. Optics Express, 2017, 25, 223.	3.4	4
15	Invited Article: Visualisation of extreme value events in optical communications. APL Photonics, 2018, 3, 060801.	5.7	4
16	The analysis of the error statistics in a 5 Ã— 40 Gbit/s fibre link with hybrid amplification. Optics Communications, 2011, 284, 4695-4698.	2.1	2
17	Interchannel nonlinearity compensation using a perturbative machine learning technique. Optics Communications, 2021, 493, 127026.	2.1	2
18	The error statistics analysis of the QPSK-modulated signal in the high-rate optical link. Optics Communications, 2013, 296, 132-136.	2.1	1

#	Article	IF	Citations
19	Convolutional Neural Networks with Multiple Layers per Span for Nonlinearity Mitigation in Long-Haul WDM Transmission Systems. , 2021, , .		1
20	Direct modelling of error statistics for data transmission through a high data rate communication line using a four-level phase modulation format. Quantum Electronics, 2012, 42, 645-649.	1.0	0
21	Digital back propagation in soliton coherent transmission. , 2015, , .		0
22	Nonlinear effects in optical signal transmission using a multimode fibre with weak coupling. Quantum Electronics, 2017, 47, 330-334.	1.0	0
23	Simple Geometric Approach for Optimization of Phase-Sensitive Fibre Optic Parametric Amplifiers. , 2017, , .		0
24	Support vector machine based nonlinear compensation for few mode fiber transmission systems. , 2017, , .		0
25	Characterisation of Cascaded Raman-Assisted Fibre Optical Parametric Amplifiers using WDM QPSK Signals. , 2016, , .		0
26	Error Correction over Optical Transmission. , 2017, , .		0