

Alexey Redyuk

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Advanced Convolutional Neural Networks for Nonlinearity Mitigation in Long-Haul WDM Transmission Systems. <i>Journal of Lightwave Technology</i> , 2021, 39, 2397-2406.	4.6	46
2	Convolutional Neural Networks with Multiple Layers per Span for Nonlinearity Mitigation in Long-Haul WDM Transmission Systems. , 2021, , .		1
3	Interchannel nonlinearity compensation using a perturbative machine learning technique. <i>Optics Communications</i> , 2021, 493, 127026.	2.1	2
4	Nonlinear Spectrum of Conventional OFDM and WDM Return-to-Zero Signals in Nonlinear Channel. <i>Journal of Lightwave Technology</i> , 2020, 38, 352-358.	4.6	12
5	Compensation of Nonlinear Impairments Using Inverse Perturbation Theory With Reduced Complexity. <i>Journal of Lightwave Technology</i> , 2020, 38, 1250-1257.	4.6	24
6	Soliton-sinc optical pulses. <i>Optics Letters</i> , 2020, 45, 5352.	3.3	8
7	Invited Article: Visualisation of extreme value events in optical communications. <i>APL Photonics</i> , 2018, 3, 060801.	5.7	4
8	Equalization performance and complexity analysis of dynamic deep neural networks in long haul transmission systems. <i>Optics Express</i> , 2018, 26, 32765.	3.4	67
9	Nonlinear effects in optical signal transmission using a multimode fibre with weak coupling. <i>Quantum Electronics</i> , 2017, 47, 330-334.	1.0	0
10	Dynamic neural network-based methods for compensation of nonlinear effects in multimode communication lines. <i>Quantum Electronics</i> , 2017, 47, 1147-1149.	1.0	7
11	Simple geometric interpretation of signal evolution in phase-sensitive fibre optic parametric amplifier. <i>Optics Express</i> , 2017, 25, 223.	3.4	4
12	Simple Geometric Approach for Optimization of Phase-Sensitive Fibre Optic Parametric Amplifiers. , 2017, , .		0
13	Support vector machine based nonlinear compensation for few mode fiber transmission systems. , 2017, , .		0
14	Error Correction over Optical Transmission. , 2017, , .		0
15	Characterisation of Cascaded Raman-Assisted Fibre Optical Parametric Amplifiers using WDM QPSK Signals. , 2016, , .		0
16	Digital back propagation in soliton coherent transmission. , 2015, , .		0
17	Suppression of WDM four-wave mixing crosstalk in fibre optic parametric amplifier using Raman-assisted pumping. <i>Optics Express</i> , 2015, 23, 27240.	3.4	12
18	Numerical simulation of current experimental 100 Gbit s ⁻¹ DWDM communication lines. <i>Quantum Electronics</i> , 2015, 45, 75-77.	1.0	13

#	ARTICLE	IF	CITATIONS
19	100 Gb s ⁻¹ coherent dense wavelength division multiplexing system reach extension beyond the limit of electronic dispersion compensation using optical dispersion management. <i>Laser Physics Letters</i> , 2014, 12, 025101.	1.4	7
20	Coherent soliton communication lines. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 119, 787-794.	0.9	8
21	Soliton communication lines based on spectrally efficient modulation formats. <i>Quantum Electronics</i> , 2014, 44, 606-611.	1.0	7
22	Timing and phase jitter suppression in coherent soliton transmission. <i>Optics Letters</i> , 2014, 39, 6308.	3.3	11
23	The error statistics analysis of the QPSK-modulated signal in the high-rate optical link. <i>Optics Communications</i> , 2013, 296, 132-136.	2.1	1
24	Direct modelling of error statistics for data transmission through a high data rate communication line using a four-level phase modulation format. <i>Quantum Electronics</i> , 2012, 42, 645-649.	1.0	0
25	Mathematical simulation of an experimental prototype of a high-speed nonreturn-to-zero differential phase-shift-keying fibre-optic communication system. <i>Quantum Electronics</i> , 2011, 41, 929-933.	1.0	7
26	The analysis of the error statistics in a 5 Å– 40 Gbit/s fibre link with hybrid amplification. <i>Optics Communications</i> , 2011, 284, 4695-4698.	2.1	2