

# Oleg Sidelnikov

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

217  
citations

1307594

7  
h-index

1372567

10  
g-index

19  
all docs

19  
docs citations

19  
times ranked

176  
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	Conditions for walk-off soliton generation in a multimode fiber. Communications Physics, 2021, 4, .	5.3	26
4	Compensation of Nonlinear Impairments Using Inverse Perturbation Theory With Reduced Complexity. Journal of Lightwave Technology, 2020, 38, 1250-1257.	4.6	24
5	Mitigation of nonlinear transmission effects for OFDM 16-QAM optical signal using adaptive modulation. Optics Express, 2016, 24, 30296.	3.4	15
6	Multimode solitons in step-index fibers. Optics Express, 2022, 30, 6300.	3.4	9
7	Perturbative Machine Learning Technique for Nonlinear Impairments Compensation in WDM Systems. , 2018, , .		8
8	Dynamic neural network-based methods for compensation of nonlinear effects in multimode communication lines. Quantum Electronics, 2017, 47, 1147-1149.	1.0	7
9	Nonlinear Equalization in Long Haul Transmission Systems Using Dynamic Multi-Layer Perceptron Networks. , 2018, , .		6
10	Investigation of nonlinear effects in the transmission of a QAM signal in fibre optic communication lines using different carrier pulses. Quantum Electronics, 2017, 47, 1140-1143.	1.0	3
11	Deep learning with synthetic photonic lattices for equalization in optical transmission systems. , 2019, , .		2
12	Compensation for nonlinear effects in an optical orthogonal frequency-division multiplexed signal using adaptive modulation. Quantum Electronics, 2016, 46, 1113-1116.	1.0	1
13	Application of combined optical signal processing methods to compensate for nonlinear effects in fibre-optic communication links. Quantum Electronics, 2018, 48, 1160-1163.	1.0	1
14	Convolutional Neural Networks with Multiple Layers per Span for Nonlinearity Mitigation in Long-Haul WDM Transmission Systems. , 2021, , .		1
15	Nonlinearity Compensation Techniques Using Machine Learning. , 2019, , .		1
16	Numerical modelling of multimode fibre-optic communication lines. Quantum Electronics, 2016, 46, 76-80.	1.0	0
17	Nonlinear effects in optical signal transmission using a multimode fibre with weak coupling. Quantum Electronics, 2017, 47, 330-334.	1.0	0
18	Support vector machine based nonlinear compensation for few mode fiber transmission systems. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Complex Fully Connected Neural Networks for Nonlinearity Compensation in Long-Haul Transmission Systems. , 2021, , .		0