

# Andrea Carena

## List of Publications by Year in descending order

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192  
papers

5,361  
citations

136950

32  
h-index

98798

67  
g-index

193  
all docs

193  
docs citations

193  
times ranked

1840  
citing authors

#	ARTICLE	IF	CITATIONS
1	The GN-Model of Fiber Non-Linear Propagation and its Applications. Journal of Lightwave Technology, 2014, 32, 694-721.	4.6	531
2	On the Performance of Nyquist-WDM Terabit Superchannels Based on PM-BPSK, PM-QPSK, PM-8QAM or PM-16QAM Subcarriers. Journal of Lightwave Technology, 2011, 29, 53-61.	4.6	461
3	EGN model of non-linear fiber propagation. Optics Express, 2014, 22, 16335.	3.4	347
4	Modeling of the Impact of Nonlinear Propagation Effects in Uncompensated Optical Coherent Transmission Links. Journal of Lightwave Technology, 2012, 30, 1524-1539.	4.6	341
5	Performance Limits of Nyquist-WDM and CO-OFDM in High-Speed PM-QPSK Systems. IEEE Photonics Technology Letters, 2010, 22, 1129-1131.	2.5	335
6	Analytical Modeling of Nonlinear Propagation in Uncompensated Optical Transmission Links. IEEE Photonics Technology Letters, 2011, 23, 742-744.	2.5	215
7	All-optical label swapping with wavelength conversion for WDM-IP networks with subcarrier multiplexed addressing. IEEE Photonics Technology Letters, 1999, 11, 1497-1499.	2.5	116
8	Analytical and Experimental Results on System Maximum Reach Increase Through Symbol Rate Optimization. Journal of Lightwave Technology, 2016, 34, 1872-1885.	4.6	106
9	OPERA: an optical packet experimental routing architecture with label swapping capability. Journal of Lightwave Technology, 1998, 16, 2135-2145.	4.6	102
10	Suppression of spurious tones induced by the split-step method in fiber systems simulation. IEEE Photonics Technology Letters, 2000, 12, 489-491.	2.5	94
11	On the optimization of hybrid Raman/erbium-doped fiber amplifiers. IEEE Photonics Technology Letters, 2001, 13, 1170-1172.	2.5	94
12	RingO: An Experimental WDM Optical Packet Network for Metro Applications. IEEE Journal on Selected Areas in Communications, 2004, 22, 1561-1571.	14.0	92
13	A Simple and Effective Closed-Form GN Model Correction Formula Accounting for Signal Non-Gaussian Distribution. Journal of Lightwave Technology, 2015, 33, 459-473.	4.6	88
14	The LOGON Strategy for Low-Complexity Control Plane Implementation in New-Generation Flexible Networks. , 2013, , .		82
15	On the use of NRZ, RZ, and CSRZ modulation at 40 Gb/s with narrow DWDM channel spacing. Journal of Lightwave Technology, 2002, 20, 1694-1704.	4.6	81
16	Analytical results on channel capacity in uncompensated optical links with coherent detection. Optics Express, 2011, 19, B440.	3.4	81
17	Nyquist-WDM-Based Flexible Optical Networks: Exploring Physical Layer Design Parameters. Journal of Lightwave Technology, 2013, 31, 2332-2339.	4.6	79
18	Dispersion Compensation and Mitigation of Nonlinear Effects in 111-Gb/s WDM Coherent PM-QPSK Systems. IEEE Photonics Technology Letters, 2008, 20, 1473-1475.	2.5	75

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19	New analytical results on fiber parametric gain and its effects on ASE noise. IEEE Photonics Technology Letters, 1997, 9, 535-537.	2.5	71
20	Performance evaluation of coherent WDM PS-QPSK (HEXA) accounting for non-linear fiber propagation effects. Optics Express, 2010, 18, 11360.	3.4	69
21	Inverse System Design Using Machine Learning: The Raman Amplifier Case. Journal of Lightwave Technology, 2020, 38, 736-753.	4.6	63
22	Statistical characterization of PM-QPSK signals after propagation in uncompensated fiber links. , 2010, , .		55
23	A novel analytical approach to the evaluation of the impact of fiber parametric gain on the bit error rate. IEEE Transactions on Communications, 2001, 49, 2154-2163.	7.8	54
24	A time-domain optical transmission system simulation package accounting for nonlinear and polarization-related effects in fiber. IEEE Journal on Selected Areas in Communications, 1997, 15, 751-765.	14.0	51
25	Ultra-Narrow-Spacing 10-Channel 1.12 Tb/s D-WDM Long-Haul Transmission Over Uncompensated SMF and NZDSF. IEEE Photonics Technology Letters, 2010, 22, 1419-1421.	2.5	50
26	Design Strategies and Merit of System Parameters for Uniform Uncompensated Links Supporting Nyquist-WDM Transmission. Journal of Lightwave Technology, 2015, 33, 3921-3932.	4.6	50
27	Experimental validation of an analytical model for nonlinear propagation in uncompensated optical links. Optics Express, 2011, 19, B790.	3.4	43
28	GN-Model Validation Over Seven Fiber Types in Uncompensated PM-16QAM Nyquist-WDM Links. IEEE Photonics Technology Letters, 2014, 26, 206-209.	2.5	41
29	Extension and validation of the GN model for non-linear interference to uncompensated links using Raman amplification. Optics Express, 2013, 21, 3308.	3.4	39
30	Merit of Raman Pumping in Uniform and Uncompensated Links Supporting NyWDM Transmission. Journal of Lightwave Technology, 2016, 34, 554-565.	4.6	37
31	Multi-Band Programmable Gain Raman Amplifier. Journal of Lightwave Technology, 2021, 39, 429-438.	4.6	36
32	Quantum limit of direct-detection receivers using duobinary transmission. IEEE Photonics Technology Letters, 2003, 15, 102-104.	2.5	34
33	Modulation Formats Suitable for Ultrahigh Spectral Efficient WDM Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 321-328.	2.9	33
34	Performance Dependence on Channel Baud-Rate of PM-QPSK Systems Over Uncompensated Links. IEEE Photonics Technology Letters, 2011, 23, 15-17.	2.5	33
35	Fully Blind Linear and Nonlinear Equalization for 100G PM-64QAM Optical Systems. Journal of Lightwave Technology, 2015, 33, 1265-1274.	4.6	32
36	Hybrid Modulation Formats Enabling Elastic Fixed-Grid Optical Networks. Journal of Optical Communications and Networking, 2016, 8, A92.	4.8	32

#	ARTICLE	IF	CITATIONS
37	RINGO: a WDM ring optical packet network demonstrator. , 0, , .		31
38	Transoceanic PM-QPSK Terabit superchannel transmission experiments at Baud-rate subcarrier spacing. , 2010, , .		31
39	Nonlinear mitigation on subcarrier-multiplexed PM-16QAM optical systems. Optics Express, 2017, 25, 4298.	3.4	30
40	Analytical results on system maximum reach increase through symbol rate optimization. , 2015, , .		28
41	Time-Division Hybrid Modulation Formats: Tx Operation Strategies and Countermeasures to Nonlinear Propagation. , 2014, , .		27
42	Adaptive Probabilistic Shaped Modulation for High-Capacity Free-Space Optical Links. Journal of Lightwave Technology, 2020, 38, 6529-6541.	4.6	27
43	A novel analytical method for the BER evaluation in optical systems affected by parametric gain. IEEE Photonics Technology Letters, 2000, 12, 152-154.	2.5	26
44	Evaluation of the computational effort for chromatic dispersion compensation in coherent optical PM-OFDM and PM-QAM systems. Optics Express, 2009, 17, 1385.	3.4	25
45	Investigation of the Impact of Ultra-Narrow Carrier Spacing on the Transmission of a 10-Carrier 1Tb/s Superchannel. , 2010, , .		24
46	Maximum Reach Versus Transmission Capacity for Terabit Superchannels Based on 27.75-GBaud PM-QPSK, PM-8QAM, or PM-16QAM. IEEE Photonics Technology Letters, 2010, 22, 829-831.	2.5	24
47	Experimental Investigation of Nonlinear Interference Accumulation in Uncompensated Links. IEEE Photonics Technology Letters, 2012, 24, 1230-1232.	2.5	24
48	EDFA gain transients: experimental demonstration of a low cost electronic control. IEEE Photonics Technology Letters, 2003, 15, 1351-1353.	2.5	23
49	Transmission of 9\$imes\$,138 Gb/s Prefiltered PM-8QAM Signals Over 4000 km of Pure Silica-Core Fiber. Journal of Lightwave Technology, 2011, 29, 2310-2318.	4.6	23
50	Performance prediction for WDM PM-QPSK transmission over uncompensated links. , 2011, , .		23
51	Impact of the Transmitted Signal Initial Dispersion Transient on the Accuracy of the GN-Model of Non-Linear Propagation. , 2013, , .		23
52	Introducing Load Aware Neural Networks for Accurate Predictions of Raman Amplifiers. Journal of Lightwave Technology, 2020, 38, 6481-6491.	4.6	23
53	Performance Evaluation of Long-Haul 111 Gb/s PM-QPSK Transmission Over Different Fiber Types. IEEE Photonics Technology Letters, 2010, 22, 1446-1448.	2.5	20
54	NRZ-PM-QPSK 16 \$imes\$ 100 Gb/s Transmission Over Installed Fiber With Different Dispersion Maps. IEEE Photonics Technology Letters, 2010, 22, 371-373.	2.5	20

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55	Experimental demonstration of a frequency-domain Volterra series nonlinear equalizer in polarization-multiplexed transmission. <i>Optics Express</i> , 2013, 21, 276.	3.4	20
56	1306-km 20x1248-Gb/s PM-64QAM Transmission over PSCF with Net SEDP 11,300 (b <sup>^</sup> ™km)/s/Hz using 115 samp/symb DAC. <i>Optics Express</i> , 2014, 22, 1796.	3.4	20
57	Dual Stage CPE for 64-QAM Optical Systems Based on a Modified QPSK-Partitioning Algorithm. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 267-270.	2.5	18
58	Frequency-Domain Hybrid Modulation Formats for High Bit-Rate Flexibility and Nonlinear Robustness. <i>Journal of Lightwave Technology</i> , 2018, 36, 4856-4870.	4.6	18
59	Investigation on the robustness of a Nyquist-WDM Terabit superchannel to transmitter and receiver non-idealities. , 2010, , .		17
60	Fiber Figure of Merit Based on Maximum Reach. , 2013, , .		17
61	Impact of low-OSNR operation on the performance of advanced coherent optical transmission systems. , 2014, , .		17
62	Experimental Characterization of Raman Amplifier Optimization Through Inverse System Design. <i>Journal of Lightwave Technology</i> , 2021, 39, 1162-1170.	4.6	17
63	Dynamic Range of Single-Ended Detection Receivers for 100GE Coherent PM-QPSK. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1281-1283.	2.5	16
64	Novel figure of merit to compare fibers in coherent detection systems with uncompensated links. <i>Optics Express</i> , 2012, 20, 339.	3.4	15
65	Ultra-Long-Haul Transmission of 16 <sup>~</sup> —112 Gb/s Spectrally-Engineered DAC-Generated Nyquist-WDM PM-16QAM Channels with 1.05 <sup>~</sup> —(Symbol-Rate) Frequency Spacing. , 2012, , .		15
66	Experimental validation of the EGN-model in uncompensated optical links. , 2015, , .		14
67	Experimental demonstration of fiber nonlinearity mitigation in a WDM multi-subcarrier coherent optical system. , 2015, , .		14
68	Parametric gain in multiwavelength systems: a new approach to noise enhancement analysis. <i>IEEE Photonics Technology Letters</i> , 1999, 11, 1135-1137.	2.5	13
69	Extensive Fiber Comparison and GN-model Validation in Uncompensated Links using DAC-generated Nyquist-WDM PM-16QAM Channels. , 2013, , .		13
70	Optical Control Plane Based on an Analytical Model of Non-Linear Transmission Effects in a Self-Optimized Network. , 2013, , .		13
71	FFSS: The fast fiber simulator software. , 2017, , .		13
72	Enhanced resilience towards ROADMs-induced optical filtering using subcarrier multiplexing and optimized bit and power loading. <i>Optics Express</i> , 2019, 27, 30710.	3.4	13

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73	WDM optical IP tag switching with packet-rate wavelength conversion and subcarrier multiplexed addressing. , 0, , .		12
74	Analytical results on channel capacity in uncompensated optical links with coherent detection: erratum. Optics Express, 2012, 20, 19610.	3.4	12
75	On the joint effects of fiber parametric gain and birefringence and their influence on ASE noise. Journal of Lightwave Technology, 1998, 16, 1149-1157.	4.6	11
76	Fundamental performance limits of optical duobinary. Optics Express, 2008, 16, 19600.	3.4	11
77	Single- and multi-carrier techniques to build up Tb/s per channel transmission systems. , 2010, , .		11
78	Optimization of DSP-based Nyquist-WDM PM-16QAM Transmitter. , 2012, , .		11
79	16\$,imes,\$125 Gb/s Quasi-Nyquist DAC-Generated PM-16QAM Transmission Over 3590 km of PSCF. IEEE Photonics Technology Letters, 2012, 24, 2143-2146.	2.5	11
80	Adaptive Stokes-Based Polarization Demultiplexing for Long-Haul Multi-Subcarrier Systems. IEEE Photonics Technology Letters, 2019, 31, 759-762.	2.5	11
81	Machine learning-based Raman amplifier design. , 2019, , .		11
82	On the ultimate potential of symbol-rate optimization for increasing system maximum reach. , 2015, , .		10
83	Comparing Different Options for Flexible Networking: Probabilistic Shaping vs. Hybrid Subcarrier Modulation. , 2017, , .		10
84	Correlated Nonlinear Phase-Noise in Multi-Subcarrier Systems: Modeling and Mitigation. Journal of Lightwave Technology, 2020, 38, 1148-1156.	4.6	10
85	Joint Carrier-Phase Estimation for Digital Subcarrier Multiplexing Systems With Symbol-Rate Optimization. Journal of Lightwave Technology, 2021, 39, 6403-6412.	4.6	10
86	Ringo: A Demonstrator of WDM Optical Packet Network on a Ring Topology. IFIP Advances in Information and Communication Technology, 2003, , 183-197.	0.7	10
87	Observing the Interaction of PMD with Generation of NLI in Uncompensated Amplified Optical Links. , 2018, , .		10
88	Optimized management of ultra-wideband photonics switching systems assisted by machine learning. Optics Express, 2022, 30, 3989.	3.4	10
89	Performance Analysis of Coherent 222-Gb/s NRZ PM-16QAM WDM Systems Over Long-Haul Links. IEEE Photonics Technology Letters, 2010, 22, 266-268.	2.5	9
90	On the impact of non-linear phase-noise on the assessment of long-haul uncompensated coherent systems performance. , 2014, , .		9

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91	Low-Complexity Time-Domain DBP Based on Random Step-Size and Partitioned Quantization. Journal of Lightwave Technology, 2018, 36, 2888-2895.	4.6	9
92	The Synopsys Software Environment to Design and Simulate Photonic Integrated Circuits: A Case Study for 400G Transmission. , 2018, , .		9
93	Automatic Management of $N \times N$ Photonic Switch Powered by Machine Learning in Software-Defined Optical Transport. IEEE Open Journal of the Communications Society, 2021, 2, 1358-1365.	6.9	9
94	Simultaneous gain profile design and noise figure prediction for Raman amplifiers using machine learning. Optics Letters, 2021, 46, 1157.	3.3	8
95	Statistical Analysis of 100 Gbps per Wavelength SWDM VCSEL-MMF Data Center Links on a Large Set of OM3 and OM4 Fibers. Journal of Lightwave Technology, 2022, 40, 1018-1026.	4.6	8
96	8B10B line coding to mitigate the non-uniform FM laser response of direct modulated CPFSK transmitter. Optics Express, 2008, 16, 7279.	3.4	7
97	Investigation of the Dependence of Non-Linear Interference on the Number of WDM Channels in Coherent Optical Networks. , 2012, , .		7
98	Accurate Closed-Form GN/EGN-Model Formula Leveraging a Large QAM-System Test-Set. IEEE Photonics Technology Letters, 2019, 31, 1381-1384.	2.5	7
99	Inverse design of a Raman amplifier in frequency and distance domains using convolutional neural networks. Optics Letters, 2021, 46, 2650.	3.3	7
100	Performance evaluation and assessment of receiver impairments of a novel PolSK transceiver based on differential demodulation. Optics Express, 2008, 16, 16079.	3.4	6
101	Impact of ADC Sampling Speed and Resolution on Uncompensated Long-Haul 111-Gb/s WDM PM-QPSK Systems. IEEE Photonics Technology Letters, 2009, 21, 1514-1516.	2.5	6
102	Guard-Band for 111 Gbit/s coherent PM-QPSK channels on legacy fiber links carrying 10 Gbit/s IMDD channels. , 2009, , .		6
103	Joint DGD, PDL and chromatic dispersion estimation in ultra-long-haul WDM transmission experiments with coherent receivers. , 2010, , .		6
104	Non-Linearity Modeling for Gaussian-Constellation Systems at Ultra-High Symbol Rates. , 2018, , .		6
105	Experimental demonstration of arbitrary Raman gain profile designs using machine learning. , 2020, , .		6
106	Performance evaluation of data-driven techniques for the softwarized and agnostic management of an $N \times N$ photonic switch. , 2022, 1, 1.		6
107	Spectral and Spatial Power Evolution Design With Machine Learning-Enabled Raman Amplification. Journal of Lightwave Technology, 2022, 40, 3546-3556.	4.6	6
108	DSP-based compensation of non-linear impairments in 100 Gb/s PolMux QPSK. , 2010, , .		5

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109	A simple and accurate model for non-linear propagation effects in uncompensated coherent transmission links. , 2011, , .		5
110	Nonlinear Mitigation of a 400G Frequency-Hybrid Superchannel for the 62.5-GHz Slot. Journal of Lightwave Technology, 2017, 35, 3963-3973.	4.6	5
111	An ultra-fast method for gain and noise prediction of Raman amplifiers. , 2019, , .		5
112	Machine learning assisted abstraction of photonic integrated circuits in fully disaggregated transparent optical networks. , 2020, , .		5
113	Effectiveness of Digital Back-Propagation and Symbol-Rate Optimization in Coherent WDM Optical Systems. , 2016, , .		5
114	HFA Optimization for Nyquist WDM Transmission. , 2015, , .		5
115	Efficient Time-Domain DBP using Random Step-Size and Multi-Band Quantization. , 2018, , .		5
116	Closed-Form EGN Model for FMF Systems. , 2021, , .		5
117	Polarization modulation in ultra-long haul transmission systems: a promising alternative to intensity modulation. , 0, , .		4
118	Coherent polarization-multiplexed formats: Receiver requirements and mitigation of fiber non-linear effects. , 2010, , .		4
119	Transmission of PM-64QAM over 1524 km of PSCF using fully-blind equalization and Volterra-based nonlinear mitigation. , 2014, , .		4
120	Assessing the Impact of Design Options for an Optical Switch in Network Routing Impairments. , 2019, , .		4
121	Performance of Digital Nyquist-WDM. , 2011, , .		4
122	Non-linearity Compensation Limits in Optical Systems with Coherent Receivers. , 2012, , .		4
123	Achieving Fine Bit-Rate Granularity with Hybrid Subcarrier Modulation. , 2016, , .		4
124	Non-Linearity Modeling at Ultra-High Symbol Rates. , 2018, , .		4
125	Observing the effect of polarization mode dispersion on nonlinear interference generation in wide-band optical links. OSA Continuum, 2019, 2, 2856.	1.8	4
126	Load aware Raman gain profile prediction in dynamic multi-band optical networks. , 2020, , .		4

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127	Machine Learning for Power Profiles Prediction in Presence of Inter-channel Stimulated Raman Scattering. , 2021, , .		4
128	Generalization Properties of Machine Learning-based Raman Models. , 2021, , .		4
129	Design Rules for Reach Maximization in Uncompensated Nyquist-WDM Links. , 2013, , .		3
130	Impact of Nonlinear Effects and Mitigation on Coherent Optical Systems. Telecommunications and Information Technology, 2019, , 93-120.	0.2	3
131	Effectiveness of Machine Learning in Assessing QoT Impairments of Photonics Integrated Circuits to Reduce System Margin. , 2020, , .		3
132	Optimization of a Hybrid EDFA-Raman C+L Band Amplifier through Neural-Network Models. , 2021, , .		3
133	Analytical Results on Channel Capacity in Uncompensated Optical Links with Coherent Detection. , 2011, , .		3
134	Effectiveness of Symbol-Rate Optimization with PM-16QAM Subcarriers in WDM Transmission. , 2017, , .		3
135	Combining Probabilistic Shaping and Nonlinear Mitigation: Potential Gains and Challenges. , 2018, , .		3
136	Machine learning applied to inverse systems design. , 2022, , .		3
137	Theoretical and experimental results on transmission penalty due to fiber parametric gain in normal dispersion. , 0, , .		2
138	Suppression of spurious tones in fiber system simulations based on the split-step method. , 0, , .		2
139	System impact of parametric gain: a novel method for the BER evaluation. , 0, , .		2
140	Optical vs. electronic chromatic dispersion compensation in WDM coherent PM-QPSK systems at 111 Gbit/s. , 2008, , .		2
141	Nonlinear propagation of 1 Tbps Superchannels based on 240 Gbps PM-16QAM subcarriers on PSCF with hybrid Erbium/Raman fiber amplification. , 2010, , .		2
142	Evaluation of the Dependence on System Parameters of Non-Linear Interference Accumulation in Multi-Span Links. , 2012, , .		2
143	Network Performance Evaluation for Nyquist-WDM-Based Flexible Optical Networking. , 2012, , .		2
144	Electronic dispersion pre-compensation in PM-QPSK systems over mixed-fiber links. , 2014, , .		2

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145	What is the right physical layer model for a highly dynamic reconfigurable optical network?. , 2015, , .		2
146	Theoretical and experimental assessment of nonlinearity mitigation through symbol rate optimization. , 2015, , .		2
147	Machine-learning-aided abstraction of photonic integrated circuits in software-defined optical transport. , 2021, , .		2
148	Flexible FEC Optimization for Time-Domain Hybrid Modulation Formats. , 2015, , .		2
149	Low-Complexity Chromatic Dispersion Equalizer for 400G Transmission Systems. , 2017, , .		2
150	Networking Benefit of Multi-Subcarrier Transceivers. , 2018, , .		2
151	Advances in Modeling and Mitigation of Nonlinear Effects in Uncompensated Coherent Optical Transmission Systems. , 2020, , .		2
152	System impact of fiber parametric gain in long-haul optical links. , 0, , .		1
153	Best Optical Filtering for Duobinary Transmission. , 2005, , 21-28.		1
154	A novel PolSK transceiver based on differential demodulation: assessment of performance. , 2006, , .		1
155	Simultaneous optimisation of filter bandwidths and interferometer free spectral range for DPSK and DQPSK modulation. IET Optoelectronics, 2008, 2, 143-147.	3.3	1
156	Raman-assisted transmission of Nyquist-WDM PM-16QAM channels at 240 Gbps on PSCF. , 2011, , .		1
157	Experimental Demonstration of a Frequency-Domain Volterra Series Nonlinear Equalizer in Polarization-Multiplexed Transmission. , 2012, , .		1
158	Evaluation of Non-Linear Interference in Uncompensated Links using Raman Amplification. , 2012, , .		1
159	1306-km 20124.8-Gb/s PM-64QAM Transmission over PSCF with Net SEDP 11,300 (b.km)/s/Hz using 1.15 samp/symb DAC. , 2013, , .		1
160	Simulation of silicon photonic coherent PM-QPSK transceivers using microring modulators. , 2014, , .		1
161	FLEX -PAM modulation formats for future optical transmission system. , 2015, , .		1
162	Scalable modulation technology and the tradeoff of reach, spectral efficiency, and complexity. , 2017, , .		1

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163	On the Accumulation of Non-Linear Interference in Multi-Subcarrier Systems. , 2017, , .		1
164	Mitigation of transceiver bandwidth limitations using multi-subcarrier signals. , 2017, , .		1
165	A GN/ECN-model real-time closed-form formula tested over 7,000 virtual links. , 2019, , .		1
166	Modulation Format, Core and Spectrum Assignment in a Multicore Optical Link with and without MIMO Receivers. , 2020, , .		1
167	Automatic design of NxN integrated Benes optical switch. , 2021, , .		1
168	Distance and spectral power profile shaping using machine learning enabled Raman amplifiers. , 2021, , .		1
169	Bit-rate maximization for elastic transponders operating in WDM uncompensated amplified links. , 2016, , .		1
170	Advancing classical and quantum communication systems with machine learning. , 2020, , .		1
171	A novel Figure of Merit to Compare Fibers in Coherent Detection Systems with Uncompensated Links. , 2011, , .		1
172	Digital Nyquist WDM for Access Networks using Limited Bandwidth Reflective Semiconductor Optical Amplifiers. , 2012, , .		1
173	Multi-band programmable gain Raman amplifier for high-capacity optical networks. , 2021, , .		1
174	Machine Learning Driven Model for Software Management of Photonics Switching Systems. , 2021, , .		1
175	Parametric gain on dispersion compensated fiber links. , 0, , .		0
176	System impact of sideband instability. , 0, , .		0
177	Parametric gain in WDM systems. , 0, , .		0
178	MAPON digital video distribution in the European ACTS CRABS project: simulation and experiment. , 0, , .		0
179	Comparison between different configurations of hybrid Raman/erbium-doped fiber amplifiers. , 0, , .		0
180	The impact of polarization mode dispersion: optical duobinary vs. NRZ transmission. , 0, , .		0

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181	ASE-noise limit of direct-detection receivers: duobinary vs. IMDD. , 0, , .		0
182	System impact of EDFA gain fluctuation in WDM optical packet networks. , 0, , .		0
183	Quantum limit of direct-detection receivers: duobinary vs. IMDD. , 2003, , .		0
184	Boosting the capacity of legacy networks using PM-64QAM and Nyquist-WDM technique. , 2014, , .		0
185	Machine learning enabled Raman amplifiers. , 2021, , .		0
186	Optimization of Raman amplifiers using machine learning. , 2021, , .		0
187	Artificial Neural Network Symbol Estimator With Enhanced Robustness to Nonlinear Phase Noise. IEEE Photonics Technology Letters, 2021, 33, 1341-1344.	2.5	0
188	Performance Evaluation of Coherent PS-QPSK (HEXA) Modulation. , 2011, , .		0
189	400G Frequency-Hybrid Superchannel for the 62.5 GHz Slot. , 2017, , .		0
190	Real Time Closed-Form Model for Nonlinearity Assessment of Fibre Optic Links with Lumped Loss. , 2021, , .		0
191	Autonomous Control Model for C+L Multi-band Photonic Switch System using Machine Learning. , 2021, , .		0
192	Optimal control of BeneÅi optical networks assisted by machine learning. , 2022, , .		0