

Darko Zibar

List of Publications by Year in descending order

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191
papers

4,165
citations

147566

31
h-index

138251

58
g-index

191
all docs

191
docs citations

191
times ranked

2871
citing authors

#	ARTICLE	IF	CITATIONS
1	An Overview on Application of Machine Learning Techniques in Optical Networks. IEEE Communications Surveys and Tutorials, 2019, 21, 1383-1408.	24.8	374
2	100 Gbit/s hybrid optical fiber-wireless link in the W-band (75–110 GHz). Optics Express, 2011, 19, 24944.	1.7	260
3	Single-source chip-based frequency comb enabling extreme parallel data transmission. Nature Photonics, 2018, 12, 469-473.	15.6	165
4	Machine Learning Techniques in Optical Communication. Journal of Lightwave Technology, 2016, 34, 1442-1452.	2.7	164
5	High-Capacity Wireless Signal Generation and Demodulation in 75- to 110-GHz Band Employing All-Optical OFDM. IEEE Photonics Technology Letters, 2011, 23, 810-812.	1.3	152
6	Machine Learning Techniques for Optical Performance Monitoring From Directly Detected PDM-QAM Signals. Journal of Lightwave Technology, 2017, 35, 868-875.	2.7	133
7	0.4 THz Photonic-Wireless Link With 106 Gb/s Single Channel Bitrate. Journal of Lightwave Technology, 2018, 36, 610-616.	2.7	113
8	Dual-polarization nonlinear Fourier transform-based optical communication system. Optica, 2018, 5, 263.	4.8	111
9	Model-Aided Deep Learning Method for Path Loss Prediction in Mobile Communication Systems at 2.6 GHz. IEEE Access, 2020, 8, 7925-7936.	2.6	111
10	Constellation Shaping for Fiber-Optic Channels With QAM and High Spectral Efficiency. IEEE Photonics Technology Letters, 2014, 26, 2407-2410.	1.3	109
11	Constellation Shaping for WDM Systems Using 256QAM/1024QAM With Probabilistic Optimization. Journal of Lightwave Technology, 2016, 34, 5146-5156.	2.7	105
12	Widely Linear Equalization for IQ Imbalance and Skew Compensation in Optical Coherent Receivers. Journal of Lightwave Technology, 2016, 34, 3577-3586.	2.7	85
13	Nonlinear impairment compensation using expectation maximization for dispersion managed and unmanaged PDM 16-QAM transmission. Optics Express, 2012, 20, B181.	1.7	80
14	Stokes Space-Based Optical Modulation Format Recognition for Digital Coherent Receivers. IEEE Photonics Technology Letters, 2013, 25, 2129-2132.	1.3	77
15	High-Capacity 60 GHz and 75–110 GHz Band Links Employing All-Optical OFDM Generation and Digital Coherent Detection. Journal of Lightwave Technology, 2012, 30, 147-155.	2.7	76
16	25 Gbit/s QPSK Hybrid Fiber-Wireless Transmission in the W-Band (75–110 GHz) With Remote Antenna Unit for In-Building Wireless Networks. IEEE Photonics Journal, 2012, 4, 691-698.	1.0	67
17	100 GHz Externally Modulated Laser for Optical Interconnects. Journal of Lightwave Technology, 2017, 35, 1174-1179.	2.7	64
18	Inverse System Design Using Machine Learning: The Raman Amplifier Case. Journal of Lightwave Technology, 2020, 38, 736-753.	2.7	63

#	ARTICLE	IF	CITATIONS
19	Deep Learning of Geometric Constellation Shaping Including Fiber Nonlinearities. , 2018, , .		58
20	400-GHz Wireless Transmission of 60-Gb/s Nyquist-QPSK Signals Using UTC-PD and Heterodyne Mixer. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 765-770.	2.0	49
21	Time-Domain Neural Network Receiver for Nonlinear Frequency Division Multiplexed Systems. IEEE Photonics Technology Letters, 2018, 30, 1079-1082.	1.3	49
22	Converged Wireline and Wireless Access Over a 78-km Deployed Fiber Long-Reach WDM PON. IEEE Photonics Technology Letters, 2009, 21, 1274-1276.	1.3	45
23	Highly Linear Coherent Receiver With Feedback. IEEE Photonics Technology Letters, 2007, 19, 940-942.	1.3	44
24	Machine learning under the spotlight. Nature Photonics, 2017, 11, 749-751.	15.6	44
25	Application of Machine Learning Techniques for Amplitude and Phase Noise Characterization. Journal of Lightwave Technology, 2015, 33, 1333-1343.	2.7	43
26	Characterization and Optimization of a High-Efficiency AlGaAs-On-Insulator-Based Wavelength Converter for 64- and 256-QAM Signals. Journal of Lightwave Technology, 2017, 35, 3750-3757.	2.7	41
27	Dual-Polarization NFDM Transmission With Continuous and Discrete Spectral Modulation. Journal of Lightwave Technology, 2019, 37, 2335-2343.	2.7	41
28	Multi-Band Programmable Gain Raman Amplifier. Journal of Lightwave Technology, 2021, 39, 429-438.	2.7	36
29	End-to-End Optimization of Coherent Optical Communications Over the Split-Step Fourier Method Guided by the Nonlinear Fourier Transform Theory. Journal of Lightwave Technology, 2021, 39, 418-428.	2.7	35
30	Dual-Polarization NFDM Transmission Using Distributed Raman Amplification and NFT-Domain Equalization. IEEE Photonics Technology Letters, 2018, 30, 1983-1986.	1.3	33
31	Compact silicon multimode waveguide spectrometer with enhanced bandwidth. Scientific Reports, 2017, 7, 43454.	1.6	32
32	2x2 MIMO-OFDM Gigabit fiber-wireless access system based on polarization division multiplexed WDM-PON. Optics Express, 2012, 20, 4369.	1.7	31
33	Machine Learning Assisted Fiber Bragg Grating-Based Temperature Sensing. IEEE Photonics Technology Letters, 2019, 31, 939-942.	1.3	31
34	Low-complexity carrier phase recovery based on principal component analysis for square-QAM modulation formats. Optics Express, 2019, 27, 15617.	1.7	30
35	Experimental 2.5-Gb/s QPSK WDM Phase-Modulated Radio-Over-Fiber Link With Digital Demodulation by a K-S Means Algorithm. IEEE Photonics Technology Letters, 2010, 22, 335-337.	1.3	29
36	Optimization of DP-M-QAM Transmitter Using Cooperative Coevolutionary Genetic Algorithm. Journal of Lightwave Technology, 2018, 36, 2450-2462.	2.7	29

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37	High Speed PAM-8 Optical Interconnects with Digital Equalization based on Neural Network. , 2016, , .		29
38	Performance Evaluation of Digital Coherent Receivers for Phase-Modulated Radio-Over-Fiber Links. Journal of Lightwave Technology, 2011, 29, 3282-3292.	2.7	27
39	60 Gbit/s 400 GHz wireless transmission. , 2015, , .		26
40	Cognitive digital receiver for burst mode phase modulated radio over fiber links. , 2010, , .		24
41	Demonstration of EDFA Cognitive Gain Control via GMPLS for Mixed Modulation Formats in Heterogeneous Optical Networks. , 2013, , .		24
42	Machine learning aided carrier recovery in continuous-variable quantum key distribution. Npj Quantum Information, 2021, 7, .	2.8	24
43	Experimental Investigation of Optoelectronic Receiver With Reservoir Computing in Short Reach Optical Fiber Communications. Journal of Lightwave Technology, 2021, 39, 2460-2467.	2.7	24
44	VCSEL Based Coherent PONs. Journal of Lightwave Technology, 2014, 32, 1423-1433.	2.7	23
45	Introducing Load Aware Neural Networks for Accurate Predictions of Raman Amplifiers. Journal of Lightwave Technology, 2020, 38, 6481-6491.	2.7	23
46	SFDR Improvement of a Coherent Receiver Using Feedback. , 2006, , .		22
47	Experimental demonstration of adaptive digital monitoring and compensation of chromatic dispersion for coherent DP-QPSK receiver. Optics Express, 2011, 19, B728.	1.7	20
48	Linear Coherent Receiver based on a Broadband and Sampling Optical Phase-Locked Loop. , 2007, , .		19
49	100-GHz Wireless-Over-Fiber Links With Up to 16-Gb/s QPSK Modulation Using Optical Heterodyne Generation and Digital Coherent Detection. IEEE Photonics Technology Letters, 2010, , .	1.3	19
50	Experimental Study of 1.55- μm EML-Based Optical IM/DD PAM-4/8 Short Reach Systems. IEEE Photonics Technology Letters, 2017, 29, 523-526.	1.3	19
51	Experimental demonstration of a cognitive quality of transmission estimator for optical communication systems. Optics Express, 2012, 20, B64.	1.7	18
52	Nonlinear Phase Noise Compensation in Experimental WDM Systems With 256QAM. Journal of Lightwave Technology, 2017, 35, 1438-1443.	2.7	18
53	Single Channel 106 Gbit/s 16QAM Wireless Transmission in the 0.4 THz Band. , 2017, , .		18
54	Novel Optical Phase Demodulator Based on a Sampling Phase-Locked Loop. IEEE Photonics Technology Letters, 2007, 19, 686-688.	1.3	17

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55	Quaternary Polarization-Multiplexed Subsystem for High-Capacity IM/DD Optical Data Links. Journal of Lightwave Technology, 2015, 33, 1408-1416.	2.7	17
56	Wavelength conversion of QAM signals in a low loss CMOS compatible spiral waveguide. APL Photonics, 2017, 2, 046105.	3.0	17
57	Experimental Demonstration of Nonlinear Frequency Division Multiplexing Transmission With Neural Network Receiver. Journal of Lightwave Technology, 2020, 38, 6465-6473.	2.7	17
58	Reservoir-Computing Based Equalization With Optical Pre-Processing for Short-Reach Optical Transmission. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-12.	1.9	17
59	Experimental Characterization of Raman Amplifier Optimization Through Inverse System Design. Journal of Lightwave Technology, 2021, 39, 1162-1170.	2.7	17
60	End-to-End Learning of a Constellation Shape Robust to Channel Condition Uncertainties. Journal of Lightwave Technology, 2022, 40, 3316-3324.	2.7	17
61	Converged Wireless and Wireline Access System Based on Optical Phase Modulation for Both Radio-Over-Fiber and Baseband Signals. IEEE Photonics Technology Letters, 2008, 20, 1814-1816.	1.3	16
62	All-VCSEL based digital coherent detection link for multi Gbit/s WDM passive optical networks. Optics Express, 2010, 18, 24969.	1.7	16
63	Anatomy of a Digital Coherent Receiver. IEICE Transactions on Communications, 2014, E97.B, 1528-1536.	0.4	16
64	Gradient-Free Training of Autoencoders for Non-Differentiable Communication Channels. Journal of Lightwave Technology, 2021, 39, 6381-6391.	2.7	16
65	Radio-Frequency Transparent Demodulation for Broadband Hybrid Wireless-Optical Links. IEEE Photonics Technology Letters, 2010, 22, 784-786.	1.3	15
66	High phase noise tolerant pilot-tone-aided DP-QPSK optical communication systems. Optics Express, 2012, 20, 19990.	1.7	15
67	First Experimental Demonstration of Coherent CAP for 300-Gb/s Metropolitan Optical Networks. , 2014, , .		15
68	Single-Source AlGaAs Frequency Comb Transmitter for 661 Tbit/s Data Transmission in a 30-core Fiber. , 2016, , .		15
69	Ultrahigh-speed Si-integrated on-chip laser with tailored dynamic characteristics. Scientific Reports, 2016, 6, 38801.	1.6	14
70	Experimental analysis of pilot-based equalization for probabilistically shaped WDM systems with 256QAM/1024QAM. , 2017, , .		14
71	Dynamic range enhancement of a novel phase-locked coherent optical phase demodulator. Optics Express, 2007, 15, 33.	1.7	13
72	Drive Test Minimization Using Deep Learning with Bayesian Approximation. , 2018, , .		13

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73	Tunable Optoelectronic Chromatic Dispersion Compensation Based on Machine Learning for Short-Reach Transmission. Applied Sciences (Switzerland), 2019, 9, 4332.	1.3	13
74	Phase-Locked Coherent Demodulator With Feedback and Sampling for Optically Phase-Modulated Microwave Links. Journal of Lightwave Technology, 2008, 26, 2460-2475.	2.7	12
75	All-Optical 160-Gbit/s Retiming System Using Fiber Grating Based Pulse Shaping Technology. Journal of Lightwave Technology, 2009, 27, 1135-1141.	2.7	12
76	Cognitive Heterogeneous Reconfigurable Optical Networks (CHRON): Enabling technologies and techniques. , 2011, , .		12
77	Joint Iterative Carrier Synchronization and Signal Detection Employing Expectation Maximization. Journal of Lightwave Technology, 2014, 32, 1608-1615.	2.7	12
78	Laser Rate Equation-Based Filtering for Carrier Recovery in Characterization and Communication. Journal of Lightwave Technology, 2015, 33, 3271-3279.	2.7	12
79	Up to 40 Gb/s wireless signal generation and demodulation in 75–110 GHz band using photonic techniques. , 2010, , .		11
80	Combined Optical and Electrical Spectrum Shaping for High-Baud-Rate Nyquist-WDM Transceivers. IEEE Photonics Journal, 2016, 8, 1-11.	1.0	10
81	Deep learning in photonics: introduction. Photonics Research, 2021, 9, DLP1.	3.4	10
82	Optical Phase Demodulation of a 10GHz RF Signal using Optical Sampling. , 2008, , .		10
83	Bayesian filtering framework for noise characterization of frequency combs. Optics Express, 2020, 28, 13949.	1.7	10
84	16 Gb/s QPSK Wireless-over-Fibre link in 75–110GHz band employing optical heterodyne generation and coherent detection. , 2010, , .		9
85	Digital coherent detection of multi-gigabit 40–GHz carrier frequency radio-over-fibre signals using photonic downconversion. Electronics Letters, 2010, 46, 57.	0.5	9
86	Experimental Study on OSNR Requirements for Spectrum-Flexible Optical Networks [Invited]. Journal of Optical Communications and Networking, 2012, 4, B85.	3.3	9
87	Dimensioning BCH Codes for Coherent DQPSK Systems With Laser Phase Noise and Cycle Slips. Journal of Lightwave Technology, 2014, 32, 4048-4052.	2.7	9
88	Radio Frequency Transparent Demodulation for Broadband Wireless Links. , 2010, , .		8
89	Experimental investigation and digital compensation of DGD for 112 Gb/s PDM-QPSK clock recovery. Optics Express, 2011, 19, B429.	1.7	8
90	Turbo Equalization for Digital Coherent Receivers. Journal of Lightwave Technology, 2014, 32, 275-284.	2.7	8

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91	Focusing Over Optical Fiber Using Time Reversal. IEEE Photonics Technology Letters, 2015, 27, 631-634.	1.3	8
92	Impact of Transmitter Phase Noise on NFDm Transmission With Discrete Spectral Modulation. IEEE Photonics Technology Letters, 2019, 31, 1767-1770.	1.3	8
93	Simultaneous Temperature Estimation of Multiple Gratings Using a Multi-Layer Neural Network. IEEE Photonics Technology Letters, 2020, 32, 1257-1260.	1.3	8
94	Simultaneous gain profile design and noise figure prediction for Raman amplifiers using machine learning. Optics Letters, 2021, 46, 1157.	1.7	8
95	Digital synchronization for continuous-variable quantum key distribution. Quantum Science and Technology, 2022, 7, 045006.	2.6	8
96	All-Optical Coherent Receiver with Feedback and Sampling. , 2006, , .		7
97	Investigation of a Novel Optical Phase Demodulator Based on a Sampling Phase-Locked Loop. , 2006, , .		7
98	Inverse design of a Raman amplifier in frequency and distance domains using convolutional neural networks. Optics Letters, 2021, 46, 2650.	1.7	7
99	Approaching optimum phase measurement in the presence of amplifier noise. Optica, 2021, 8, 1262.	4.8	7
100	Carrier Recovery and Equalization for Photonic-Wireless Links with Capacities up to 40 Gb/s in 75-110 GHz Band. , 2011, , .		7
101	Phase Noise Analysis of Clock Recovery Based on an Optoelectronic Phase-Locked Loop. Journal of Lightwave Technology, 2007, 25, 901-914.	2.7	6
102	Hybrid optical fibre-wireless links at the 75–110 GHz band supporting 100 Gbps transmission capacities. , 2011, , .		6
103	Reconfigurable Digital Coherent Receiver for Metro-Access Networks Supporting Mixed Modulation Formats and Bit-rates. , 2011, , .		6
104	Optical Modulation Format Recognition in Stokes Space for Digital Coherent Receivers. , 2013, , .		6
105	Carrier Recovery Techniques for Semiconductor Laser Frequency Noise for 28 Gbd DP-16QAM. , 2015, , .		6
106	Effective Linewidth of Semiconductor Lasers for Coherent Optical Data Links. Photonics, 2016, 3, 39.	0.9	6
107	Novel Coherent Optical OFDM-Based Transponder for Optical Slot Switched Networks. Journal of Lightwave Technology, 2016, 34, 1851-1858.	2.7	6
108	Optimization of frequency combs spectral-flatness using evolutionary algorithm. Optics Express, 2021, 29, 23447.	1.7	6

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109	End-to-end optimized nonlinear Fourier transform-based coherent communications. , 2020, , .		6
110	Time-Domain Analysis of a Novel Phase-Locked Coherent Optical Demodulator. , 2006, , .		6
111	Experimental demonstration of arbitrary Raman gainâ€“profile designs using machine learning. , 2020, , .		6
112	Spectral and Spatial Power Evolution Design With Machine Learning-Enabled Raman Amplification. Journal of Lightwave Technology, 2022, 40, 3546-3556.	2.7	6
113	Coherent Detection for 1550 nm, 5 Gbit/s VCSEL Based 40 km Bidirectional PON Transmission. , 2011, , .		5
114	Advanced Modulation Techniques for High-Performance Computing Optical Interconnects. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 3700614-3700614.	1.9	5
115	Performance monitoring techniques supporting cognitive optical networking. , 2013, , .		5
116	Machine learning concepts in coherent optical communication systems. , 2014, , .		5
117	Robust cognitive-GN BER estimator for dynamic WDM networks. , 2014, , .		5
118	Low-complexity Joint Sub-carrier Phase Noise Compensation for Digital Multi-carrier Systems. , 2017, , .		5
119	Time Skew Estimator for Dual-Polarization QAM Transmitters. , 2017, , .		5
120	Joint IQ Skew and Chromatic Dispersion Estimation for Coherent Optical Communication Receivers. , 2016, , .		5
121	Advanced Modulation Formats in Cognitive Optical Networks: EU project CHRON Demonstration. , 2014, , .		4
122	Reconfigurable Forward Error Correction Decoder for Beyond 100 Gbps High Speed Optical Links. IEEE Communications Letters, 2015, 19, 119-122.	2.5	4
123	Two-Stage n-PSK Partitioning Carrier Phase Recovery Scheme for Circular mQAM Coherent Optical Systems. Photonics, 2016, 3, 37.	0.9	4
124	Highly-Sensitive Phase and Frequency Noise Measurement Technique Using Bayesian Filtering. IEEE Photonics Technology Letters, 2019, 31, 1866-1869.	1.3	4
125	Analysis of Sampled Optical Phase-Lock Loops. , 2007, , .		3
126	The Effect of Timing Jitter on a 160-Gb/s Demultiplexer. IEEE Photonics Technology Letters, 2007, 19, 957-959.	1.3	3

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127	Channel measurements for a optical fiber-wireless transmission system in the 75–110 GHz band. , 2011, , .		3
128	Impact of Carrier Induced Frequency Noise from the Transmitter Laser on 28 and 56 Gbaud DP-QPSK Metro Links. , 2014, , .		3
129	Capacity-Approaching Superposition Coding for Optical Fiber Links. Journal of Lightwave Technology, 2014, 32, 2960-2972.	2.7	3
130	Experimental demonstration of the maximum likelihood-based chromatic dispersion estimator for coherent receivers. Optical Fiber Technology, 2014, 20, 158-162.	1.4	3
131	Rate Equation-Based Phase Recovery for Semiconductor Laser Coherent Transmitters. , 2015, , .		3
132	Interleavers and BCH Codes for Coherent DQPSK Systems With Laser Phase Noise. IEEE Photonics Technology Letters, 2015, 27, 685-688.	1.3	3
133	Performance emulation and parameter estimation for nonlinear fibre-optic links. , 2016, , .		3
134	Model-Based Position and Reflectivity Estimation of Fiber Bragg Grating Sensor Arrays. Sensors, 2018, 18, 2268.	2.1	3
135	Robust BPSK Impulse Radio UWB-over-Fiber Systems Using Optical Phase Modulation. , 2011, , .		3
136	Impact of Gain Saturation on the Parametric Amplification of 16-QAM Signals. , 2012, , .		3
137	Machine Learning Techniques Applied to System Characterization and Equalization. , 2016, , .		3
138	End-to-end learning for fiber-optic communication systems. , 2022, , 115-139.		3
139	Machine learning applied to inverse systems design. , 2022, , .		3
140	Converged wireline and wireless signal transport over optical fibre access links. , 2009, , .		2
141	Digital coherent receiver employing photonic downconversion for phase modulated radio-over-fibre links. , 2009, , .		2
142	Re-configurable digital receiver for optically envelope detected half cycle BPSK and MSK radio-on-fiber signals. Optical Fiber Technology, 2011, 17, 59-63.	1.4	2
143	Coherent detection passive optical access network enabling converged delivery of broadcast and dedicated broadband services. Optical Fiber Technology, 2011, 17, 1-6.	1.4	2
144	Novel BCH Code Design for Mitigation of Phase Noise Induced Cycle Slips in DQPSK Systems. , 2014, , .		2

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145	Turbo Equalization Techniques Toward Robust PDM 16-QAM Optical Fiber Transmission. Journal of Optical Communications and Networking, 2014, 6, 204.	3.3	2
146	Impairment mitigation in superchannels with digital backpropagation and MLSD. Optics Express, 2015, 23, 29493.	1.7	2
147	Introduction to the JOCN Special Issue on Machine Learning and Data Analytics for Optical Communications and Networking. Journal of Optical Communications and Networking, 2018, 10, ML1.	3.3	2
148	Clock Recovery Challenges in DSP-Based Coherent Single-Mode and Multi-Mode Optical Systems. Future Internet, 2018, 10, 59.	2.4	2
149	Experimental Demonstration of a Cognitive Quality of Transmission Estimator for Optical Communication Systems. , 2012, , .		2
150	100-Gbps hybrid optical fiber-wireless transmission. , 2013, , .		2
151	Nonlinear Compensation with Modified Adaptive Digital Backpropagation in Flexigrid Networks. , 2015, , .		2
152	Machine learning assisted Fibre Bragg Grating based temperature sensing.. , 2018, , .		2
153	Solutions for Ultra-High Speed Optical Wavelength Conversion and Clock Recovery. , 2006, , .		1
154	DSP based Coherent Receiver for Phase-Modulated Radio-over-Fiber Optical Links. , 2008, , .		1
155	Multi-gigabit wireless over fibre links employing photonics downconversion and digital coherent detection. , 2010, , .		1
156	Engineering rules for chromatic dispersion compensation in digital receivers for optical coherent PolMux QPSK links. , 2010, , .		1
157	Digital non-linear equalization for flexible capacity ultradense WDM channels for metro core networking. Optics Express, 2011, 19, B270.	1.7	1
158	Photonic downconversion for coherent phase-modulated radio-over-fiber links using free-running local oscillator. Optical Fiber Technology, 2011, 17, 263-266.	1.4	1
159	Reconfigurable digital receiver for 8PSK subcarrier multiplexed and 16QAM single carrier phase-modulated radio over fiber links. Microwave and Optical Technology Letters, 2011, 53, 1015-1018.	0.9	1
160	Radio over fiber link with adaptive order n-QAM optical phase modulated OFDM and digital coherent detection. Microwave and Optical Technology Letters, 2011, 53, 2245-2247.	0.9	1
161	Vertical-cavity surface-emitting laser based digital coherent detection for multigigabit long reach passive optical links. Microwave and Optical Technology Letters, 2011, 53, 2462-2464.	0.9	1
162	Counteracting 16-QAM Optical Fiber Transmission Impairments With Iterative Turbo Equalization. IEEE Photonics Technology Letters, 2013, 25, 2097-2100.	1.3	1

#	ARTICLE	IF	CITATIONS
163	Experimental evaluation of prefiltering for 56Gbaud DP-QPSK signal transmission in 75GHz WDM grid. Optical Fiber Technology, 2014, 20, 39-43.	1.4	1
164	DSP-based focusing over optical fiber using time reversal. , 2014, , .		1
165	Highly Sensitive Photonic Crystal Cavity Laser Noise Measurements using Bayesian Filtering. , 2015, , .		1
166	Phase noise tolerant carrier recovery scheme for 28 Gbaud circular 16QAM. , 2015, , .		1
167	Coherent optical orthogonal frequency-division multiplexing for optical slot switched intra-datacenters networks. , 2015, , .		1
168	Digital signal processing approaches for semiconductor phase noise tolerant coherent transmission systems. Proceedings of SPIE, 2015, , .	0.8	1
169	Laser characterization with advanced digital signal processing. , 2015, , .		1
170	Markov chain Monte Carlo methods for statistical analysis of RF photonic devices. Optics Express, 2016, 24, 2084.	1.7	1
171	Prediction of Second-Order Moments of Inter-Channel Interference with Principal Component Analysis and Neural Networks. , 2017, , .		1
172	Optimization of Fiber Optics Communication Systems via End-to-End Learning. , 2020, , .		1
173	Single-Step Emulation of Nonlinear Fiber-Optic Link with Gaussian Mixture Model. , 2015, , .		1
174	Low-penalty up to 16-QAM wavelength conversion in a low loss CMOS compatible spiral waveguide. , 2016, , .		1
175	Performance of Multi-Channel DBP with Long-haul Frequency-Referenced Transmission. , 2016, , .		1
176	Impact of Laser Phase Noise on Nonlinear Frequency Division Multiplexing Systems. , 2019, , .		1
177	Reduction of timing jitter by clock recovery based on an optical phase-locked loop. , 2006, , .		0
178	Experimental demonstration of a digital maximum likelihood based feedforward carrier recovery scheme for phase-modulated radio-over-fibre links. , 2008, , .		0
179	Hybrid optical/wireless link with software defined receiver for simultaneous baseband and wireless signal detection. , 2010, , .		0
180	1.2 Tb/s ultradense WDM long reach and spectral efficiency access link with digital detection. , 2011, , .		0

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181	Nonlinear Impairment Compensation Using Expectation Maximization for PDM 16-QAM Systems. , 2012, , .		0
182	Reconfigurable digital coherent receiver for metro-access networks supporting mixed modulation formats and bit-rates. Optical Fiber Technology, 2013, 19, 638-642.	1.4	0
183	Coherent 40 Gb/s SP-16QAM and 80 Gb/s PDM-16QAM in an Optimal Supercomputer Optical Switch Fabric. , 2013, , .		0
184	Capacity and shaping in coherent fiber-optic links. , 2014, , .		0
185	Stokes Space in Direct-Detection Data Transmission Systems. , 2015, , .		0
186	Low-complexity BCH codes with optimized interleavers for DQPSK systems with laser phase noise. Photonic Network Communications, 2017, 33, 328-333.	1.4	0
187	BCH Codes for Coherent Star DQAM Systems with Laser Phase Noise. Journal of Optical Communications, 2017, 38, .	4.0	0
188	Wavelength Conversion of QPSK and 16-QAM Coherent Signals in a CMOS Compatible Spiral Waveguide. , 2016, , .		0
189	Tolerance of Continuous NFT Spectrum to Optical Fiber Channel Impairments. , 2016, , .		0
190	Performance Evaluation of Clock Recovery for Coherent Mode Division Multiplexed Systems. , 2017, , .		0
191	Transfer learning for temperature predictions in sensors employing fibre Bragg grating arrays. , 2021, , .		0