

# Magnus Karlsson

## List of Publications by Year in descending order

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382  
papers

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citations

34105

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386  
docs citations

386  
times ranked

4251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Noise Integrated Phase-Sensitive Waveguide Parametric Amplifiers. Journal of Lightwave Technology, 2022, 40, 128-135.	4.6	11
2	Low-Noise Phase-sensitive Parametric Amplifiers Based on Integrated Silicon-Nitride-Waveguides for Optical Signal Processing. Journal of Lightwave Technology, 2022, 40, 1847-1854.	4.6	5
3	Low-Complexity Voronoi Shaping for the Gaussian Channel. IEEE Transactions on Communications, 2022, 70, 865-873.	7.8	3
4	Spectral Interferometry with Frequency Combs. Micromachines, 2022, 13, 614.	2.9	2
5	Ultralow-loss Silicon Nitride Waveguides for Parametric Amplification. , 2022, , .		0
6	Angled Flip-Chip Integration of VCSELs on Silicon Photonic Integrated Circuits. Journal of Lightwave Technology, 2022, 40, 5190-5200.	4.6	3
7	Periodicity-Enabled Size Reduction of Symbol Based Predistortion for High-Order QAM. Journal of Lightwave Technology, 2022, 40, 6168-6178.	4.6	7
8	Elliptical-Core Highly Nonlinear Few-Mode Fiber Based OXC for WDM-MDM Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11.	2.9	6
9	Dissipative solitons in photonic molecules. Nature Photonics, 2021, 15, 305-310.	31.4	90
10	Low-Complexity Geometric Shaping. Journal of Lightwave Technology, 2021, 39, 363-371.	4.6	22
11	Analytic theory for parametric gain in lossy integrated waveguides. , 2021, , .		8
12	Analytical Modeling of Nonlinear Fiber Propagation for Four Dimensional Symmetric Constellations. Journal of Lightwave Technology, 2021, 39, 2704-2713.	4.6	9
13	High Spectral Efficiency Coherent Superchannel Transmission With Soliton Microcombs. Journal of Lightwave Technology, 2021, 39, 4367-4373.	4.6	34
14	Frequency-comb-calibrated swept-wavelength interferometry. Optics Express, 2021, 29, 24363.	3.4	18
15	Designing Voronoi Constellations to Minimize Bit Error Rate. , 2021, , .		3
16	Compressed Shaping: Concept and FPGA Demonstration. Journal of Lightwave Technology, 2021, 39, 5412-5422.	4.6	0
17	Overcoming the quantum limit of optical amplification in monolithic waveguides. Science Advances, 2021, 7, eabi8150.	10.3	56
18	Phase-sensitively amplified wavelength-division multiplexed optical transmission systems. Optics Express, 2021, 29, 33086.	3.4	0

#	ARTICLE	IF	CITATIONS
19	Ultralow-loss meter-long dispersion-engineered silicon nitride waveguides. , 2021, , .		5
20	FPGA Implementation of Hierarchical Subcarrier Rate and Distribution Matching for up to 1.032 Tb/s or 262144-QAM. , 2021, , .		0
21	Overcoming the Quantum Noise Limit with Continuous-wave Phase-Sensitive Parametric Amplification Based on a Single Integrated Silicon-Nitride Waveguide. , 2021, , .		3
22	Experimental Demonstration of 8-Dimensional Voronoi Constellations with 65,536 and 16,777,216 Symbols. , 2021, , .		2
23	Characterisation of a Coupled-Core Fiber Using Dual-Comb Swept-Wavelength Interferometry. , 2021, , .		3
24	Symbol-Based Supervised Learning Predistortion for Compensating Transmitter Nonlinearity. , 2021, , .		3
25	Phase-coherent lightwave communications with frequency combs. Nature Communications, 2020, 11, 201.	12.8	73
26	Antialiased Transmitter-Side Digital Backpropagation. IEEE Photonics Technology Letters, 2020, 32, 1211-1214.	2.5	2
27	Post-FEC BER Benchmarking for Bit-Interleaved Coded Modulation With Probabilistic Shaping. Journal of Lightwave Technology, 2020, 38, 4292-4306.	4.6	9
28	Joint Superchannel Digital Signal Processing for Effective Inter-Channel Interference Cancellation. Journal of Lightwave Technology, 2020, 38, 5676-5684.	4.6	13
29	Pilot Distributions for Joint-Channel Carrier-Phase Estimation in Multichannel Optical Communications. Journal of Lightwave Technology, 2020, 38, 4656-4663.	4.6	6
30	Optimization of Transmitter-Side Signal Rotations in the Presence of Laser Phase Noise. Journal of Lightwave Technology, 2020, 38, 3850-3858.	4.6	0
31	When to Use Optical Amplification in Noncoherent Transmission: An Information-Theoretic Approach. IEEE Transactions on Communications, 2020, 68, 2438-2445.	7.8	6
32	Performance Monitoring for Live Systems with Soft FEC and Multilevel Modulation. Journal of Lightwave Technology, 2020, , 1-1.	4.6	4
33	Fiber-based phase-sensitive optical amplifiers and their applications. Advances in Optics and Photonics, 2020, 12, 367.	25.5	61
34	Waveguide tapering for improved parametric amplification in integrated nonlinear Si <sub>3</sub> N <sub>4</sub> waveguides. Optics Express, 2020, 28, 23467.	3.4	12
35	Bayesian filtering framework for noise characterization of frequency combs. Optics Express, 2020, 28, 13949.	3.4	10
36	Enhanced analog-optical link performance with noiseless phase-sensitive fiber optical parametric amplifiers. Optics Express, 2020, 28, 23534.	3.4	9

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37	Modulation format dependence on transmission reach in phase-sensitively amplified fiber links. Optics Express, 2020, 28, 34623.	3.4	4
38	Sparse-Dense MLC for Peak Power Constrained Channels. , 2020, , .		0
39	Look-up Table based Pre-distortion for Transmitters Employing High-Spectral-Efficiency Modulation Formats. , 2020, , .		9
40	Lattice-based geometric shaping. , 2020, , .		3
41	Dual-Comb Swept Wavelength Interferometry. , 2020, , .		3
42	On the Performance under Hard and Soft Bitwise Mismatched-Decoding. , 2020, , .		1
43	Nonlinearity mitigation dependence on modulation format in phase-sensitively amplified fiber links. , 2020, , .		1
44	Multi-Channel Equalization for Comb-Based Systems. , 2020, , .		1
45	Multilevel Coding with Flexible Probabilistic Shaping for Rate-Adaptive and Low-Power Optical Communications. , 2020, , .		7
46	Active Mode-Selective Conversion Enabled by an Elliptical- Core Highly Nonlinear Few-Mode Fiber. , 2020, , .		0
47	Required and Received SNRs in Coded Modulation. , 2020, , .		0
48	On the Performance of Joint-Core Carrier-Phase Estimation in the Presence of Intercore Skew. Journal of Lightwave Technology, 2019, 37, 5291-5298.	4.6	0
49	Channel allocation in elastic optical networks using traveling salesman problem algorithms. Journal of Optical Communications and Networking, 2019, 11, C58.	4.8	2
50	Cross-Phase Modulation Mitigation in Phase-Sensitive Amplifier Links. IEEE Photonics Technology Letters, 2019, 31, 1733-1736.	2.5	11
51	Laser Frequency Combs for Coherent Optical Communications. Journal of Lightwave Technology, 2019, 37, 1663-1670.	4.6	96
52	Hierarchical Distribution Matching for Probabilistically Shaped Coded Modulation. Journal of Lightwave Technology, 2019, 37, 1579-1589.	4.6	71
53	1060 nm Single-Mode VCSEL and Single-Mode Fiber Links for Long-Reach Optical Interconnects. Journal of Lightwave Technology, 2019, 37, 2963-2969.	4.6	29
54	Experimental Investigation of Link Impairments in Pilot Tone Aided Superchannel Transmission. IEEE Photonics Technology Letters, 2019, 31, 459-462.	2.5	2

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55	Dielectric Broadband Metasurfaces for Fiber Mode-Multiplexed Communications. <i>Advanced Optical Materials</i> , 2019, 7, 1801679.	7.3	20
56	Phase Noise Characterization and EEPN of a Full C-Band Tunable Laser in Coherent Optical Systems. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1991-1994.	2.5	0
57	Pilot-Aided Joint-Channel Carrier-Phase Estimation in Space-Division Multiplexed Multicore Fiber Transmission. <i>Journal of Lightwave Technology</i> , 2019, 37, 1133-1142.	4.6	9
58	12 b/s/Hz Spectral Efficiency Over the C-band Based on Comb-Based Superchannels. <i>Journal of Lightwave Technology</i> , 2019, 37, 411-417.	4.6	13
59	Master-slave carrier recovery for M-QAM multicore fiber transmission. <i>Optics Express</i> , 2019, 27, 22226.	3.4	8
60	Overhead-optimization of pilot-based digital signal processing for flexible high spectral efficiency transmission. <i>Optics Express</i> , 2019, 27, 24654.	3.4	47
61	Analysis of nonlinearity mitigation using phase-sensitive optical parametric amplifiers. <i>Optics Express</i> , 2019, 27, 31926.	3.4	7
62	Design, fabrication, and characterization of a highly nonlinear few-mode fiber. <i>Photonics Research</i> , 2019, 7, 1354.	7.0	14
63	Frequency Comb Based High-Spectral Efficiency Transmission. , 2019, , .		0
64	Joint Source-Channel Coding via Compressed Distribution Matching in Fiber-Optic Communications. , 2019, , .		3
65	High Spectral Efficiency PM-128QAM Comb-Based Superchannel Transmission Enabled by a Single Shared Optical Pilot Tone. <i>Journal of Lightwave Technology</i> , 2018, 36, 1318-1325.	4.6	36
66	10 Tb/s PM-64QAM Self-Homodyne Comb-Based Superchannel Transmission With 4% Shared Pilot Tone Overhead. <i>Journal of Lightwave Technology</i> , 2018, 36, 3176-3184.	4.6	41
67	Technologies Toward Implementation of Probabilistic Constellation Shaping. , 2018, , .		5
68	Power Consumption Savings Through Joint Carrier Recovery for Spectral and Spatial Superchannels. , 2018, , .		4
69	ASIC Implementation of Time-Domain Digital Back Propagation for Coherent Receivers. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1179-1182.	2.5	13
70	Long-haul optical transmission link using low-noise phase-sensitive amplifiers. <i>Nature Communications</i> , 2018, 9, 2513.	12.8	61
71	Noise in phase-(in)sensitive dual-core fiber parametric amplification. <i>Optics Express</i> , 2018, 26, 4050.	3.4	13
72	Correlation Metric for Polarization Changes. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1575-1578.	2.5	0

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73	Phase-sensitive amplifier link with distributed Raman amplification. Optics Express, 2018, 26, 19854.	3.4	10
74	Frequency Comb-Based WDM Transmission Systems Enabling Joint Signal Processing. Applied Sciences (Switzerland), 2018, 8, 718.	2.5	56
75	Phase Correlation Between Lines of Electro-Optical Frequency Combs. , 2018, , .		4
76	Modulation and Detection for Multicore Superchannels with Correlated Phase Noise. , 2018, , .		2
77	Low-Complexity Variable-Length Output Distribution Matching with Periodical Distribution Uniformization. , 2018, , .		14
78	Sensitivity Improvements in an 850-nm VCSEL-Based Link Using a Two-Tap Pre-Emphasis Electronic Filter. Journal of Lightwave Technology, 2017, 35, 1633-1639.	4.6	7
79	Power Consumption Analysis of Hybrid EDFA/Raman Amplifiers in Long-Haul Transmission Systems. Journal of Lightwave Technology, 2017, 35, 2132-2142.	4.6	25
80	VCSEL design and integration for high-capacity optical interconnects. Proceedings of SPIE, 2017, , .	0.8	7
81	Theoretical Investigation of Longitudinal Dispersion Fluctuations on All-Fiber Phase-Sensitive Parametric Optical Switch. Journal of Lightwave Technology, 2017, 35, 1646-1653.	4.6	2
82	Design of Highly Nonlinear Few-Mode Fiber for C-Band Optical Parametric Amplification. Journal of Lightwave Technology, 2017, 35, 2810-2817.	4.6	28
83	High-speed optical interconnects with 850nm VCSELS and advanced modulation formats. Proceedings of SPIE, 2017, , .	0.8	0
84	Impact of Damping on 50 Gbps 4-PAM Modulation of 25G Class VCSELS. Journal of Lightwave Technology, 2017, 35, 4203-4209.	4.6	19
85	Effects of Polarization-Mode Dispersion on Degenerate Four-Wave Mixing. Journal of Lightwave Technology, 2017, 35, 4210-4218.	4.6	8
86	Multidimensional Modulation and Coding in Optical Transport. Journal of Lightwave Technology, 2017, 35, 876-884.	4.6	29
87	Post-FEC BER Prediction Accuracy for Probabilistically Shaped Signaling in Fiber-Optic Communications. , 2017, , .		2
88	Pilot Distributions for Phase Tracking in Space-Division Multiplexed Systems. , 2017, , .		5
89	Joint Carrier Recovery for DSP Complexity Reduction in Frequency Comb-Based Superchannel Transceivers. , 2017, , .		16
90	Long-Haul Optical Transmission of 16-QAM Signal with In-Line Phase-Sensitive Amplifiers. , 2017, , .		3

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91	Short-Block-Length Shaping by Simple Mark Ratio Controllers for Granular and Wide-Range Spectral Efficiencies. , 2017, , .		10
92	Digital backpropagation accounting for polarization-mode dispersion. Optics Express, 2017, 25, 1903.	3.4	27
93	Feature issue introduction: Nonlinearity mitigation for coherent transmission systems. Optics Express, 2017, 25, 4552.	3.4	2
94	Parametric amplification with a dual-core fiber. Optics Express, 2017, 25, 6234.	3.4	19
95	Performance Metrics for Systems With Soft-Decision FEC and Probabilistic Shaping. IEEE Photonics Technology Letters, 2017, 29, 2111-2114.	2.5	25
96	10 Tb/s Self-Homodyne 64-QAM Superchannel Transmission with 4% Spectral Overhead. , 2017, , .		5
97	Phase-Noise Compensation for Spatial-Division Multiplexed Transmission. , 2017, , .		5
98	Temporal Stochastic Channel Model for Absolute Polarization State and Polarization-Mode Dispersion. , 2017, , .		1
99	Experimental Investigation of Nonlinearity Mitigation Properties of a Hybrid Distributed Raman/Phase-sensitive Amplifier Link. , 2017, , .		0
100	Modified Digital Backpropagation Accounting for Polarization-Mode Dispersion. , 2017, , .		1
101	Self-homodyne 24Å–32-QAM superchannel receiver enabled by all-optical comb regeneration using brillouin amplification. Optics Express, 2016, 24, 29714.	3.4	34
102	Proposed Implementation of “Non-Physical” Four-Dimensional Polarization Rotations. Journal of Lightwave Technology, 2016, 34, 3317-3322.	4.6	1
103	Polarization-Independent Phase-Sensitive Amplification. Journal of Lightwave Technology, 2016, 34, 3171-3180.	4.6	12
104	Modulation Format Independent Joint Polarization and Phase Tracking for Coherent Receivers. Journal of Lightwave Technology, 2016, 34, 3354-3364.	4.6	4
105	Roadmap of optical communications. Journal of Optics (United Kingdom), 2016, 18, 063002.	2.2	402
106	94-Gb/s 4-PAM Using an 850-nm VCSEL, Pre-Emphasis, and Receiver Equalization. IEEE Photonics Technology Letters, 2016, 28, 2519-2521.	2.5	42
107	Dispersion Compensation FIR Filter With Improved Robustness to Coefficient Quantization Errors. Journal of Lightwave Technology, 2016, 34, 5110-5117.	4.6	16
108	Mitigation of nonlinear distortion in hybrid Raman/phase-sensitive amplifier links. Optics Express, 2016, 24, 888.	3.4	20

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109	Implementation of an optical fiber frequency distribution via commercial DWDM. , 2016, , .		0
110	Polarization Drift Channel Model for Coherent Fibre-Optic Systems. Scientific Reports, 2016, 6, 21217.	3.3	31
111	Frequency-Comb Regeneration for Self-Homodyne Superchannels. Journal of Lightwave Technology, 2016, 34, 1800-1806.	4.6	21
112	Transmission Systems With Low Noise Phase-Sensitive Parametric Amplifiers. Journal of Lightwave Technology, 2016, 34, 1411-1423.	4.6	26
113	Demonstration of Ultra Wideband Phase-Sensitive Fiber Optical Parametric Amplifier. IEEE Photonics Technology Letters, 2016, 28, 175-177.	2.5	22
114	Traffic-Grooming- and Multipath-Routing-Enabled Impairment-Aware Elastic Optical Networks. Journal of Optical Communications and Networking, 2016, 8, 58.	4.8	31
115	Multidimensional modulation formats for coherent optical communications. Proceedings of SPIE, 2016, , .	0.8	3
116	Impact of 4D Channel Distribution on the Achievable Rates in Coherent Optical Communication Experiments. Journal of Lightwave Technology, 2016, 34, 2256-2266.	4.6	51
117	Regenerator site selection in impairment-aware elastic optical networks. , 2016, , .		6
118	Multidimensional Modulation and Coding. , 2016, , .		4
119	Improved Achievable Information Rates by Optimized Four-Dimensional Demappers in Optical Transmission Experiments. , 2016, , .		6
120	Symbol-by-Symbol Joint Polarization and Phase Tracking in Coherent Receivers. , 2015, , .		4
121	Experimental Investigation of a Four-Dimensional 256-ary Lattice-based Modulation Format. , 2015, , .		14
122	Phase-Sensitive Amplified Transmission Links for Improved Sensitivity and Nonlinearity Tolerance. Journal of Lightwave Technology, 2015, 33, 710-721.	4.6	111
123	Sensitivity improvements in an 850 nm VCSEL transmitter using a one-tap pre-emphasis electronic filter. , 2015, , .		3
124	Four-dimensional estimates of mutual information in coherent optical communication experiments. , 2015, , .		6
125	Power consumption of hybrid EDFA/Raman amplified systems. , 2015, , .		1
126	Experimental Investigation of Crosstalk Penalties in Multicore Fiber Transmission Systems. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	14



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127	Transmission systems with low noise phase sensitive parametric amplifiers. , 2015, , .		0
128	Phase-sensitive fiber-based parametric all-optical switch. Optics Express, 2015, 23, 33426.	3.4	8
129	On the impact of carrier phase estimation on phase correlations in coherent fiber transmission. , 2015, , .		7
130	70 Gbps 4-PAM and 56 Gbps 8-PAM Using an 850 nm VCSEL. Journal of Lightwave Technology, 2015, 33, 1395-1401.	4.6	84
131	Mitigation of nonlinearities using conjugate data repetition. Optics Express, 2015, 23, 2392.	3.4	29
132	Fast and robust chromatic dispersion estimation based on temporal auto-correlation after digital spectrum superposition. Optics Express, 2015, 23, 15418.	3.4	12
133	Nonlinear phase noise mitigation in phase-sensitive amplified transmission systems. Optics Express, 2015, 23, 11724.	3.4	21
134	Single parity check-coded 16QAM over spatial superchannels in multicore fiber transmission. Optics Express, 2015, 23, 14569.	3.4	13
135	Influence of Behavioral Models on Multiuser Channel Capacity. Journal of Lightwave Technology, 2015, 33, 3507-3515.	4.6	16
136	Energy Efficiency of VCSELs in the Context of Short-Range Optical Links. IEEE Photonics Technology Letters, 2015, 27, 1749-1752.	2.5	10
137	Coherent transmission channels as 4d rotations. , 2015, , .		2
138	Long-Haul Optical Transmission Using In-Line Phase-Sensitive Amplifiers. , 2015, , .		0
139	Biorthogonal Modulation in 8 Dimensions Experimentally Implemented as 2PPM-PS-QPSK. , 2014, , .		7
140	Focus issue introduction: space-division multiplexing. Optics Express, 2014, 22, 32526.	3.4	10
141	70 Gbps 4-PAM and 56 Gbps 8-PAM using an 850 nm VCSEL. , 2014, , .		11
142	CMA-based CD and DGD estimation in presence of experimental higher order PMD. , 2014, , .		0
143	Comparison between coherent superposition in DSP and PSA for mitigation of nonlinearities in a single-span link. , 2014, , .		0
144	Linear and Nonlinear Transmission of 16-QAM Over 105 km Phase-Sensitive Amplified Link. , 2014, , .		11

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145	Long-haul (3465 km) transmission of a 10 Gbd QPSK signal with low noise phase-sensitive in-line amplification. , 2014, , .		14
146	Record-high sensitivity receiver using phase sensitive fiber optical parametric amplification. , 2014, , .		5
147	Experimental analysis of degenerate vector phase-sensitive amplification. Optics Express, 2014, 22, 21889.	3.4	71
148	Noise beating in hybrid phase-sensitive amplifier systems. Optics Express, 2014, 22, 5762.	3.4	51
149	Frequency-resolved noise figure measurements of phase (in)sensitive fiber optical parametric amplifiers. Optics Express, 2014, 22, 27821.	3.4	4
150	Quadrature demultiplexing using a degenerate vector parametric amplifier. Optics Express, 2014, 22, 29424.	3.4	78
151	Optical signal to noise ratio improvement through unbalanced noise beating in phase-sensitive parametric amplifiers. Optics Express, 2014, 22, 10477.	3.4	14
152	Coded Modulation for Fiber-Optic Networks: Toward better tradeoff between signal processing complexity and optical transparent reach. IEEE Signal Processing Magazine, 2014, 31, 93-103.	5.6	27
153	Experimental comparison of PS-QPSK and LDPC-coded PM-QPSK with equal spectral efficiency in WDM transmission. , 2014, , .		0
154	Modulation formats for multi-core fiber transmission. Optics Express, 2014, 22, 32457.	3.4	44
155	Phase-sensitive amplification and regeneration of dual-polarization BPSK without polarization diversity. , 2014, , .		6
156	Rate-Adaptive Coded Modulation for Fiber-Optic Communications. Journal of Lightwave Technology, 2014, 32, 333-343.	4.6	62
157	Four-dimensional Rotations in Coherent Optical Communications. Journal of Lightwave Technology, 2014, 32, 1246-1257.	4.6	25
158	Capacity of a Nonlinear Optical Channel With Finite Memory. Journal of Lightwave Technology, 2014, 32, 2862-2876.	4.6	122
159	A Low-Complexity Detector for Memoryless Polarization-Multiplexed Fiber-Optical Channels. IEEE Communications Letters, 2014, 18, 368-371.	4.1	0
160	&lt;italic>K&lt;/italic>-Over-&lt;italic>L&lt;/italic> Multidimensional Position Modulation. Journal of Lightwave Technology, 2014, 32, 2254-2262.	4.6	21
161	Four-Dimensional Modulation Formats for Long-Haul Transmission. , 2014, , .		2
162	Spectrum superposition based chromatic dispersion estimation for digital coherent receivers. , 2014, , .		1

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163	Perturbation Analysis of Nonlinear Propagation in a Strongly Dispersive Optical Communication System. <i>Journal of Lightwave Technology</i> , 2013, 31, 1273-1282.	4.6	92
164	60-Gbps error-free 4-PAM operation with 850-nm VCSEL. <i>Electronics Letters</i> , 2013, 49, 953-955.	1.0	56
165	Subset-Optimized Polarization-Multiplexed PSK for Fiber-Optic Communications. <i>IEEE Communications Letters</i> , 2013, 17, 838-840.	4.1	14
166	Idler chirp optimization in a pulse-pumped parametric amplifier. , 2013, , .		1
167	Fiber Optic Parametric Amplifier With 10-dB Net Gain Without Pump Dithering. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 234-237.	2.5	86
168	Comparison of Intersymbol Interference Power Penalties for OOK and 4-PAM in Short-Range Optical Links. <i>Journal of Lightwave Technology</i> , 2013, 31, 3525-3534.	4.6	35
169	WDM Channel Capacity and its Dependence on Multichannel Adaptation Models. , 2013, , .		9
170	Phase-Sensitive Amplifiers for Optical Links. , 2013, , .		1
171	Schmidt decompositions of parametric processes II: Vector four-wave mixing. <i>Optics Express</i> , 2013, 21, 11009.	3.4	5
172	On nonlinearly-induced noise in single-channel optical links with digital backpropagation. <i>Optics Express</i> , 2013, 21, 26376.	3.4	13
173	High-Speed 850-nm Quasi-Single-Mode VCSELs for Extended-Reach Optical Interconnects. <i>Journal of Optical Communications and Networking</i> , 2013, 5, 686.	4.8	18
174	Schmidt decompositions of parametric processes I: Basic theory and simple examples. <i>Optics Express</i> , 2013, 21, 1374.	3.4	18
175	Injection locking-based pump recovery for phase-sensitive amplified links. <i>Optics Express</i> , 2013, 21, 14512.	3.4	134
176	Comparison of 128-SP-QAM and PM-16QAM in long-haul WDM transmission. <i>Optics Express</i> , 2013, 21, 19269.	3.4	26
177	Focus issue introduction: Nonlinear optics 2013. <i>Optics Express</i> , 2013, 21, 31176.	3.4	1
178	MCRB for Timing and Phase Offset for Low-Rate Optical Communication with Self-Phase Modulation. <i>IEEE Communications Letters</i> , 2013, 17, 1004-1007.	4.1	4
179	35.2 Gbps 8-PAM Transmission Over 100 m of MMF Using an 850 nm VCSEL. , 2013, , .		7
180	Demonstration of Degenerate Vector Phase-Sensitive Amplification. , 2013, , .		6

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181	Transmitter Mask Testing for 28 GBaud PM-QPSK. , 2013, , .		0
182	Mitigation of Nonlinear Impairments on QPSK Data in Phase-Sensitive Amplified Links. , 2013, , .		8
183	Frequency and Polarization Switched QPSK. , 2013, , .		23
184	Experimental Demonstration of an Optimized 16-ary Four-Dimensional Modulation Format Using Optical OFDM. , 2013, , .		5
185	Experimental Demonstration of 128-SP-QAM in Uncompensated Long-Haul Transmission. , 2013, , .		9
186	Long-Haul Transmission of PM-2PPM-QPSK at 42.8 Gbit/s. , 2013, , .		7
187	Intersymbol Interference Penalties for OOK and 4-PAM in Short-range Optical Communications. , 2013, , .		6
188	Fiber-optic Parametric Amplifiers Without Pump Dithering. , 2013, , .		0
189	Practical Detection Schemes for Power Efficient Modulation Formats. , 2013, , .		0
190	Methodology for Power-Aware Coherent Receiver Design. , 2013, , .		0
191	Transmission of PM-QPSK and PS-QPSK with different fiber span lengths. Optics Express, 2012, 20, 7544.	3.4	11
192	Comparison of 128-SP-QAM with PM-16-QAM. Optics Express, 2012, 20, 8356.	3.4	32
193	Transmission of 1936 Tb/s (11 Å— 176 Gb/s) DP-16QAM superchannel signals over 640 km SSMF with EDFA only and 300 GHz WSS channel. Optics Express, 2012, 20, B223.	3.4	12
194	Building up low-complexity spectrally-efficient Terabit superchannels by receiver-side duobinary shaping. Optics Express, 2012, 20, 10271.	3.4	12
195	Phase and amplitude characteristics of a phase-sensitive amplifier operating in gain saturation. Optics Express, 2012, 20, 21400.	3.4	43
196	4-PAM for High-Speed Short-Range Optical Communications. Journal of Optical Communications and Networking, 2012, 4, 885.	4.8	117
197	Experimental Characterization of a Phase-Sensitive Four-Mode Fiber-Optic Parametric Amplifier. , 2012, , .		9
198	Phase-Sensitive Amplified Optical Link Operating in the Nonlinear Transmission Regime. , 2012, , .		13

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199	Adaptive coded modulation for nonlinear fiber-optical channels. , 2012, , .		2
200	Optimized Lattice-based 16-level Subcarrier Modulation for IM/DD Systems. , 2012, , .		1
201	Comparison of Set-Partitioned Two-Polarization 16QAM Formats with PDM-QPSK and PDM-8QAM for Optical Transmission Systems with Error-Correction Coding. , 2012, , .		21
202	625 Gbit/s Superchannel Consisting of Interleaved DP-16QAM and DP-QPSK with 4.17 bit/s/Hz Spectral Efficiency. , 2012, , .		0
203	The Limits of Digital Backpropagation in Nonlinear Coherent Fiber-Optical Links. , 2012, , .		0
204	Performance Comparisons of DP-16QAM and Duobinary-Shaped DP-QPSK for Optical Systems With 4.1 Bit/s/Hz Spectral Efficiency. Journal of Lightwave Technology, 2012, 30, 2307-2314.	4.6	19
205	Influence of Fiber-Bragg Grating-Induced Group-Delay Ripple in High-Speed Transmission Systems. Journal of Optical Communications and Networking, 2012, 4, 514.	4.8	94
206	Modified Cram�r� Rao Bound for Clock Recovery in the Presence of Self-Phase Modulation. Journal of Lightwave Technology, 2012, 30, 2556-2561.	4.6	1
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