Magnus Karlsson

List of Publications by Year
in descending order

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382	9,999	34105	49909
papers	citations	52 h-index	87 g-index

386	386	386	4251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cherenkov radiation emitted by solitons in optical fibers. Physical Review A, 1995, 51, 2602-2607.	2.5	704
2	Towards ultrasensitive optical links enabled by low-noise phase-sensitive amplifiers. Nature Photonics, 2011, 5, 430-436.	31.4	476
3	Roadmap of optical communications. Journal of Optics (United Kingdom), 2016, 18, 063002.	2.2	402
4	Power-Efficient Modulation Formats in Coherent Transmission Systems. Journal of Lightwave Technology, 2009, 27, 5115-5126.	4.6	296
5	Long-term measurement of PMD and polarization drift in installed fibers. Journal of Lightwave Technology, 2000, 18, 941-951.	4.6	197
6	Four-wave mixing in fibers with randomly varying zero-dispersion wavelength. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 2269.	2.1	178
7	Which is the most power-efficient modulation format in optical links?. Optics Express, 2009, 17, 10814.	3.4	172
8	A comparison between different PMD compensation techniques. Journal of Lightwave Technology, 2002, 20, 368-378.	4.6	166
9	Autocorrelation function of the polarization-mode dispersion vector. Optics Letters, 1999, 24, 939.	3.3	159
10	Injection locking-based pump recovery for phase-sensitive amplified links. Optics Express, 2013, 21, 14512.	3.4	134
11	Approaching Nyquist Limit in WDM Systems by Low-Complexity Receiver-Side Duobinary Shaping. Journal of Lightwave Technology, 2012, 30, 1664-1676.	4.6	122
12	Capacity of a Nonlinear Optical Channel With Finite Memory. Journal of Lightwave Technology, 2014, 32, 2862-2876.	4.6	122
13	Polarization mode dispersionâ€“induced pulse broadening in optical fibers. Optics Letters, 1998, 23, 688.	3.3	120
14	Ultrashort solitons at the minimum-dispersion wavelength: effects of fourth-order dispersion. Optics Letters, 1993, 18, 1388.	3.3	117
15	4-PAM for High-Speed Short-Range Optical Communications. Journal of Optical Communications and Networking, 2012, 4, 885.	4.8	117
16	Phase-Sensitive Amplified Transmission Links for Improved Sensitivity and Nonlinearity Tolerance. Journal of Lightwave Technology, 2015, 33, 710-721.	4.6	111
17	Soliton-like pulses governed by fourth order dispersion in optical fibers. Optics Communications, 1994, 104, 303-307.	2.1	109
18	Noise Characteristics of Fiber Optical Parametric Amplifiers. Journal of Lightwave Technology, 2004, 22, 409-416.	4.6	109

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19	Ultralow Noise, Broadband Phase-Sensitive Optical Amplifiers, and Their Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1016-1032.	2.9	109
20	Optical beams in saturable self-focusing media. Physical Review A, 1992, 46, 2726-2734.	2.5	103
21	Polarization-mode dispersion in high-speed fiber-optic transmission systems. Journal of Lightwave Technology, 2002, 20, 2204-2219.	4.6	97
22	Laser Frequency Combs for Coherent Optical Communications. Journal of Lightwave Technology, 2019, 37, 1663-1670.	4.6	96
23	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
24	Perturbation Analysis of Nonlinear Propagation in a Strongly Dispersive Optical Communication System. Journal of Lightwave Technology, 2013, 31, 1273-1282.	4.6	92
25	Dissipative solitons in photonic molecules. Nature Photonics, 2021, 15, 305-310.	31.4	90
26	Noise performance of optical fiber transmission links that use non-degenerate cascaded phase-sensitive amplifiers. Optics Express, 2010, 18, 15426.	3.4	87
27	Fiber Optic Parametric Amplifier With 10-dB Net Gain Without Pump Dithering. IEEE Photonics Technology Letters, 2013, 25, 234-237.	2.5	86
28	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
29	OSNR Requirements for Self-Homodyne Coherent Systems. IEEE Photonics Technology Letters, 2010, 22, 91-93.	2.5	83
30	Modulational instability in lossy optical fibers. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 2071.	2.1	79
31	Software-synchronized all-optical sampling for fiber communication systems. Journal of Lightwave Technology, 2005, 23, 1088-1099.	4.6	79
32	Probability density functions of the differential group delay in optical fiber communication systems. Journal of Lightwave Technology, 2001, 19, 324-331.	4.6	78
33	Quadrature demultiplexing using a degenerate vector parametric amplifier. Optics Express, 2014, 22, 29424.	3.4	78
34	Full characterization of the signal and idler noise figure spectra in single-pumped fiber optical parametric amplifiers. Optics Express, 2010, 18, 2884.	3.4	73
35	Phase-coherent lightwave communications with frequency combs. Nature Communications, 2020, 11, 201.	12.8	73
36	Radiationless optical solitons with oscillating tails. Optics Communications, 1994, 110, 540-544.	2.1	71

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37	Experimental analysis of degenerate vector phase-sensitive amplification. Optics Express, 2014, 22, 21889.	3.4	71
38	Hierarchical Distribution Matching for Probabilistically Shaped Coded Modulation. Journal of Lightwave Technology, 2019, 37, 1579-1589.	4.6	71
39	A comparison between NRZ and RZ data formats with respect to PMD-induced system degradation. IEEE Photonics Technology Letters, 2001, 13, 448-450.	2.5	68
40	Detailed characterization of aâ€˜fiber-optic parametric amplifier in phase-sensitive and phase-insensitive operation. Optics Express, 2010, 18, 4130.	3.4	66
41	Bandwidth-efficient phase modulation techniques for Stimulated Brillouin Scattering suppression in fiber optic parametric amplifiers. Optics Express, 2010, 18, 18138.	3.4	65
42	Comparison of polarization-switched QPSK and polarization-multiplexed QPSK at 30 Gbit/s. Optics Express, 2011, 19, 7839.	3.4	64
43	Rate-Adaptive Coded Modulation for Fiber-Optic Communications. Journal of Lightwave Technology, 2014, 32, 333-343.	4.6	62
44	Long-haul optical transmission link using low-noise phase-sensitive amplifiers. Nature Communications, 2018, 9, 2513.	12.8	61
45	Fiber-based phase-sensitive optical amplifiers and their applications. Advances in Optics and Photonics, 2020, 12, 367.	25.5	61
46	Analytical theory for PMD-compensation. IEEE Photonics Technology Letters, 2000, 12, 50-52.	2.5	60
47	Optimizing Constellations for Single-Subcarrier Intensity-Modulated Optical Systems. IEEE Transactions on Information Theory, 2012, 58, 4645-4659.	2.4	57
48	Effects of Nonlinearities on PMD-Induced System Impairments. Journal of Lightwave Technology, 2006, 24, 4127-4137.	4.6	56
49	60ÂGbits errorâ€free 4â€PAM operation with 850Ânm VCSEL. Electronics Letters, 2013, 49, 953-955.	1.0	56
50	Frequency Comb-Based WDM Transmission Systems Enabling Joint Signal Processing. Applied Sciences (Switzerland), 2018, 8, 718.	2.5	56
51	Overcoming the quantum limit of optical amplification in monolithic waveguides. Science Advances, 2021, 7, eabi8150.	10.3	56
52	30 Gbps 4-PAM transmission over 200 m of MMF using an 850 nm VCSEL. Optics Express, 2011, 19, B203.	3.4	54
53	0.5-Tb/s Eye-Diagram Measurement by Optical Sampling Using XPM-Induced Wavelength Shifting in Highly Nonlinear Fiber. IEEE Photonics Technology Letters, 2004, 16, 566-568.	2.5	52
54	Modeling and measurement of the noise figure of a cascaded non-degenerate phase-sensitive parametric amplifier. Optics Express, 2010, 18, 14820.	3.4	51

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55	Noise beating in hybrid phase-sensitive amplifier systems. Optics Express, 2014, 22, 5762.	3.4	51
56	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
57	Fiber four-wave mixing demultiplexing with inherent parametric amplification. Journal of Lightwave Technology, 1997, 15, 2051-2058.	4.6	50
58	A Discrete-Time Model for Uncompensated Single-Channel Fiber-Optical Links. IEEE Transactions on Communications, 2012, 60, 3440-3450.	7.8	48
59	Overhead-optimization of pilot-based digital signal processing for flexible high spectral efficiency transmission. Optics Express, 2019, 27, 24654.	3.4	47
60	Format Conversion of Optical Multilevel Signals Using FWM-Based Optical Phase Erasure. Journal of Lightwave Technology, 2011, 29, 2460-2466.	4.6	45
61	Modulation formats for multi-core fiber transmission. Optics Express, 2014, 22, 32457.	3.4	44
62	Phase and amplitude characteristics of a phase-sensitive amplifier operating in gain saturation. Optics Express, 2012, 20, 21400.	3.4	43
63	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
64	Modified constant modulus algorithm for polarization-switched QPSK. Optics Express, 2011, 19, 7734.	3.4	41
65	10 Tb/s PM-64QAM Self-Homodyne Comb-Based Superchannel Transmission With 4% Shared Pilot Tone Overhead. Journal of Lightwave Technology, 2018, 36, 3176-3184.	4.6	41
66	Fiber optical parametric amplifier pulse source: theory and experiments. Journal of Lightwave Technology, 2005, 23, 4067-4073.	4.6	40
67	Constellation diagram analysis of DPSK signal regeneration in a saturated parametric amplifier. Optics Express, 2008, 16, 5974.	3.4	39
68	OTDM demultiplexer based on XPM-induced wavelength shifting in highly nonlinear fiber. IEEE Photonics Technology Letters, 2003, 15, 1770-1772.	2.5	37
69	Semi-analytic saturation theory of fiber optical parametric amplifiers. Journal of Lightwave Technology, 2006, 24, 3471-3479.	4.6	36
70	Focus Issue: Space Multiplexed Optical Transmission. Optics Express, 2011, 19, 16574.	3.4	36
71	High Spectral Efficiency PM-128QAM Comb-Based Superchannel Transmission Enabled by a Single Shared Optical Pilot Tone. Journal of Lightwave Technology, 2018, 36, 1318-1325.	4.6	36
72	Comparison of Intersymbol Interference Power Penalties for OOK and 4-PAM in Short-Range Optical Links. Journal of Lightwave Technology, 2013, 31, 3525-3534.	4.6	35

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73	Self-homodyne 24Ã—32-QAM superchannel receiver enabled by all-optical comb regeneration using brillouin amplification. Optics Express, 2016, 24, 29714.	3.4	34
74	High Spectral Efficiency Coherent Superchannel Transmission With Soliton Microcombs. Journal of Lightwave Technology, 2021, 39, 4367-4373.	4.6	34
75	Soliton robustness to the polarization-mode dispersion in optical fibers. IEEE Photonics Technology Letters, 2000, 12, 801-803.	2.5	32
76	Influences of polarization-mode dispersion on soliton transmission systems. IEEE Journal of Selected Topics in Quantum Electronics, 2002, 8, 575-590.	2.9	32
77	OTDM add-drop multiplexer based on XPM-induced wavelength shifting in highly nonlinear fiber. Journal of Lightwave Technology, 2005, 23, 2654-2661.	4.6	32
78	Comparison of 128-SP-QAM with PM-16-QAM. Optics Express, 2012, 20, 8356.	3.4	32
79	Performance Monitoring in Optical Networks Using Stokes Parameters. IEEE Photonics Technology Letters, 2004, 16, 686-688.	2.5	31
80	Field-quadrature and photon-number correlations produced by parametric processes. Optics Express, 2010, 18, 19792.	3.4	31
81	Polarization Drift Channel Model for Coherent Fibre-Optic Systems. Scientific Reports, 2016, 6, 21217.	3.3	31
82	Traffic-Grooming- and Multipath-Routing-Enabled Impairment-Aware Elastic Optical Networks. Journal of Optical Communications and Networking, 2016, 8, 58.	4.8	31
83	Gain and wavelength dependence of the noise-figure in fiber optical parametric amplification. IEEE Photonics Technology Letters, 2006, 18, 1255-1257.	2.5	30
84	156-Î¼s continuously tunable parametric delay line for a 40-Gb/s signal. Optics Express, 2009, 17, 11958.	3.4	30
85	Noise performance of a frequency nondegenerate phase-sensitive amplifier with unequalized inputs. Optics Letters, 2011, 36, 722.	3.3	30
86	Super-Gaussian approximation of the fundamental radial mode in nonlinear parabolic-index optical fibers. Journal of the Optical Society of America B: Optical Physics, 1992, 9, 1558.	2.1	29
87	Mitigation of nonlinearities using conjugate data repetition. Optics Express, 2015, 23, 2392.	3.4	29
88	Multidimensional Modulation and Coding in Optical Transport. Journal of Lightwave Technology, 2017, 35, 876-884.	4.6	29
89	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
90	Quaternion Approach to PMD and PDL Phenomena in Optical Fiber Systems. Journal of Lightwave Technology, 2004, 22, 1137-1146.	4.6	28

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91	Cancellation of Nonlinear Phase Distortion in Self-Homodyne Coherent Systems. IEEE Photonics Technology Letters, 2010, 22, 802-804.	2.5	28
92	Design of Highly Nonlinear Few-Mode Fiber for C-Band Optical Parametric Amplification. Journal of Lightwave Technology, 2017, 35, 2810-2817.	4.6	28
93	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
94	Digital backpropagation accounting for polarization-mode dispersion. Optics Express, 2017, 25, 1903.	3.4	27
95	Filter Optimization for Self-Homodyne Coherent WDM Systems Using Interleaved Polarization Division Multiplexing. Journal of Lightwave Technology, 2011, 29, 1219-1226.	4.6	26
96	Phase-to-phase and phase-to-amplitude transfer characteristics of a nondegenerate-idler phase-sensitive amplifier. Optics Letters, 2011, 36, 4356.	3.3	26
97	Comparison of 128-SP-QAM and PM-16QAM in long-haul WDM transmission. Optics Express, 2013, 21, 19269.	3.4	26
98	Transmission Systems With Low Noise Phase-Sensitive Parametric Amplifiers. Journal of Lightwave Technology, 2016, 34, 1411-1423.	4.6	26
99	Suppression of phase error in differential phase-shift keying data by amplitude regeneration. Optics Letters, 2006, 31, 1385.	3.3	25
100	Four-dimensional Rotations in Coherent Optical Communications. Journal of Lightwave Technology, 2014, 32, 1246-1257.	4.6	25
101	Power Consumption Analysis of Hybrid EDFA/Raman Amplifiers in Long-Haul Transmission Systems. Journal of Lightwave Technology, 2017, 35, 2132-2142.	4.6	25
102	Performance Metrics for Systems With Soft-Decision FEC and Probabilistic Shaping. IEEE Photonics Technology Letters, 2017, 29, 2111-2114.	2.5	25
103	Self-phase modulation in dispersion compensated optical fibre transmission systems. Optics Communications, 1996, 130, 153-162.	2.1	24
104	Polarization-division multiplexed solitons in optical fibers with polarization-mode dispersion. IEEE Photonics Technology Letters, 1998, 10, 1742-1744.	2.5	23
105	Frequency and Polarization Switched QPSK. , 2013, , .		23
106	Polarization dependence and efficiency in a fiber four-wave mixing phase conjugator with orthogonal pump waves. IEEE Photonics Technology Letters, 1996, 8, 776-778.	2.5	22
107	Signal Statistics in Fiber-Optical Channels With Polarization Multiplexing and Self-Phase Modulation. Journal of Lightwave Technology, 2011, 29, 2379-2386.	4.6	22
108	Demonstration of Ultra Wideband Phase-Sensitive Fiber Optical Parametric Amplifier. IEEE Photonics Technology Letters, 2016, 28, 175-177.	2.5	22

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109	Low-Complexity Geometric Shaping. Journal of Lightwave Technology, 2021, 39, 363-371.	4.6	22
110	The Statistics of Polarization-Dependent Loss in a Recirculating Loop. Journal of Lightwave Technology, 2004, 22, 968-976.	4.6	21
111	Convergence Comparison of the CMA and ICA for Blind Polarization Demultiplexing. Journal of Optical Communications and Networking, 2011, 3, 493.	4.8	21
112	Comparison of Set-Partitioned Two-Polarization 16QAM Formats with PDM-QPSK and PDM-8QAM for Optical Transmission Systems with Error-Correction Coding. , 2012, , .		21
113	<italic>K</italic>-Over-<italic>L</italic> Multidimensional Position Modulation. Journal of Lightwave Technology, 2014, 32, 2254-2262.	4.6	21
114	Nonlinear phase noise mitigation in phase-sensitive amplified transmission systems. Optics Express, 2015, 23, 11724.	3.4	21
115	Frequency-Comb Regeneration for Self-Homodyne Superchannels. Journal of Lightwave Technology, 2016, 34, 1800-1806.	4.6	21
116	Optimization of 16-point Ring Constellations in the Presence of Nonlinear Phase Noise. , 2011, , .		21
117	Impact of PMD on four-wave-mixing-induced crosstalk in WDM systems. IEEE Photonics Technology Letters, 2000, 12, 1261-1263.	2.5	20
118	Mitigation of nonlinear distortion in hybrid Raman/phase-sensitive amplifier links. Optics Express, 2016, 24, 888.	3.4	20
119	Dielectric Broadband Metasurfaces for Fiber Modeâ€Multiplexed Communications. Advanced Optical Materials, 2019, 7, 1801679.	7.3	20
120	Characterization of a self-phase-Modulation-based all-optical regeneration system. IEEE Photonics Technology Letters, 2005, 17, 2667-2669.	2.5	19
121	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
122	Impact of Damping on 50 Gbps 4-PAM Modulation of 25G Class VCSELs. Journal of Lightwave Technology, 2017, 35, 4203-4209.	4.6	19
123	Parametric amplification with a dual-core fiber. Optics Express, 2017, 25, 6234.	3.4	19
124	Polarization-mode dispersion measurements along installed optical fibers using gated backscattered light and a polarimeter. Journal of Lightwave Technology, 2000, 18, 897-904.	4.6	18
125	High-Speed 850Ânm Quasi-Single-Mode VCSELs for Extended-Reach Optical Interconnects. Journal of Optical Communications and Networking, 2013, 5, 686.	4.8	18
126	Schmidt decompositions of parametric processes I: Basic theory and simple examples. Optics Express, 2013, 21, 1374.	3.4	18

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127	Frequency-comb-calibrated swept-wavelength interferometry. Optics Express, 2021, 29, 24363.	3.4	18
128	Long-term automatic PMD compensation for 160â€…Gbit/s RZ transmission. Electronics Letters, 2002, 38, 982.	1.0	17
129	Four-dimensional optimized constellations for coherent optical transmission systems. , 2010, , .		17
130	An ML-Based Detector for Optical Communication in the Presence of Nonlinear Phase Noise. , 2011, , .		17
131	Influence of Behavioral Models on Multiuser Channel Capacity. Journal of Lightwave Technology, 2015, 33, 3507-3515.	4.6	16
132	Dispersion Compensation FIR Filter With Improved Robustness to Coefficient Quantization Errors. Journal of Lightwave Technology, 2016, 34, 5110-5117.	4.6	16
133	Joint Carrier Recovery for DSP Complexity Reduction in Frequency Comb-Based Superchannel Transceivers. , 2017, , .		16
134	Noise in Dual-Pumped Fiber-Optical Parametric Amplifiers: Theory and Experiments. Journal of Lightwave Technology, 2007, 25, 2837-2846.	4.6	15
135	A Novel Multilevel Coded Modulation Scheme for Fiber Optical Channel with Nonlinear Phase Noise. , 2010, , .		15
136	Higher-capacity communication links based on two-mode phase-sensitive amplifiers. Optics Express, 2011, 19, 11977.	3.4	15
137	Polarization mode dispersion measurement using a Sagnac interferometer and a comparison with the fixed analyzer method. IEEE Photonics Technology Letters, 1998, 10, 997-999.	2.5	14
138	Correction to â€œNoise Characteristics of Fiber Optical Parametric Amplifiersâ€• Journal of Lightwave Technology, 2005, 23, 2192-2192.	4.6	14
139	Noise Statistics in Fiber Optical Parametric Amplifiers. Journal of Lightwave Technology, 2007, 25, 612-620.	4.6	14
140	Subset-Optimized Polarization-Multiplexed PSK for Fiber-Optic Communications. IEEE Communications Letters, 2013, 17, 838-840.	4.1	14
141	Long-haul (3465 km) transmission of a 10 GBd QPSK signal with low noise phase-sensitive in-line amplification. , 2014, , .		14
142	Optical signal to noise ratio improvement through unbalanced noise beating in phase-sensitive parametric amplifiers. Optics Express, 2014, 22, 10477.	3.4	14
143	Experimental Investigation of a Four-Dimensional 256-ary Lattice-based Modulation Format. , 2015, , .		14
144	Experimental Investigation of Crosstalk Penalties in Multicore Fiber Transmission Systems. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	14

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145	Generalized Pulse-Position Modulation for Optical Power-Efficient Communication. , 2011, , .		14
146	Spectrally efficient four-dimensional modulation. , 2012, , .		14
147	Design, fabrication, and characterization of a highly nonlinear few-mode fiber. Photonics Research, 2019, 7, 1354.	7.0	14
148	Low-Complexity Variable-Length Output Distribution Matching with Periodical Distribution Uniformalization. , 2018, , .		14
149	Soliton stability in optical fibers with polarization-mode dispersion. IEEE Photonics Technology Letters, 1998, 10, 376-378.	2.5	13
150	Robustness of dispersion-managed solitons to the polarization-mode dispersion in optical fibers. IEEE Photonics Technology Letters, 2001, 13, 121-123.	2.5	13
151	Third-order dispersion compensation using a phase modulator. Journal of Lightwave Technology, 2003, 21, 1188-1197.	4.6	13
152	Phase-Sensitive Amplified Optical Link Operating in the Nonlinear Transmission Regime. , 2012, , .		13
153	On nonlinearly-induced noise in single-channel optical links with digital backpropagation. Optics Express, 2013, 21, 26376.	3.4	13
154	Single parity check-coded 16QAM over spatial superchannels in multicore fiber transmission. Optics Express, 2015, 23, 14569.	3.4	13
155	ASIC Implementation of Time-Domain Digital Back Propagation for Coherent Receivers. IEEE Photonics Technology Letters, 2018, 30, 1179-1182.	2.5	13
156	Noise in phase-(in)sensitive dual-core fiber parametric amplification. Optics Express, 2018, 26, 4050.	3.4	13
157	12 b/s/Hz Spectral Efficiency Over the C-band Based on Comb-Based Superchannels. Journal of Lightwave Technology, 2019, 37, 411-417.	4.6	13
158	Joint Superchannel Digital Signal Processing for Effective Inter-Channel Interference Cancellation. Journal of Lightwave Technology, 2020, 38, 5676-5684.	4.6	13
159	Modulational instability dynamics in a spatial focusing and temporal defocusing medium. Physical Review E, 1993, 47, 3617-3622.	2.1	12
160	Impact of phase modulation and filter characteristics on dual-pumped fiber-optical parametric amplification. IEEE Photonics Technology Letters, 2006, 18, 439-441.	2.5	12
161	Trellis-Coded Modulation in PSK and DPSK Communications. , 2006, , .		12
162	Power Efficient Subcarrier Modulation for Intensity Modulated Channels. Optics Express, 2010, 18, 17913.	3.4	12

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163	Transmission of 1936 Tb/s (11 Ã— 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
164	Building up low-complexity spectrally-efficient Terabit superchannels by receiver-side duobinary shaping. Optics Express, 2012, 20, 10271.	3.4	12
165	Fast and robust chromatic dispersion estimation based on temporal auto-correlation after digital spectrum superposition. Optics Express, 2015, 23, 15418.	3.4	12
166	Polarization-Independent Phase-Sensitive Amplification. Journal of Lightwave Technology, 2016, 34, 3171-3180.	4.6	12
167	Waveguide tapering for improved parametric amplification in integrated nonlinear Si₃N₄ waveguides. Optics Express, 2020, 28, 23467.	3.4	12
168	Fiber communications using convolutional coding and bandwidth-efficient modulation. Optics Express, 2006, 14, 542.	3.4	11
169	Transmission of PM-QPSK and PS-QPSK with different fiber span lengths. Optics Express, 2012, 20, 7544.	3.4	11
170	70 Gbps 4-PAM and 56 Gbps 8-PAM using an 850 nm VCSEL. , 2014, , .		11
171	Linear and Nonlinear Transmission of 16-QAM Over 105 km Phase-Sensitive Amplified Link. , 2014, , .		11
172	Cross-Phase Modulation Mitigation in Phase-Sensitive Amplifier Links. IEEE Photonics Technology Letters, 2019, 31, 1733-1736.	2.5	11
173	Low-Noise Integrated Phase-Sensitive Waveguide Parametric Amplifiers. Journal of Lightwave Technology, 2022, 40, 128-135.	4.6	11
174	Dark soliton pairs in fiber couplers. Optics Communications, 1994, 111, 116-122.	2.1	10
175	Soliton interaction penalty reduction by receiver filtering. IEEE Photonics Technology Letters, 1998, 10, 1042-1044.	2.5	10
176	Fiber-optic parametric amplifier in a loop mirror configuration. IEEE Photonics Technology Letters, 2005, 17, 321-323.	2.5	10
177	Joint Statistics and MLSD in Filtered Incoherent High-Speed Fiber-Optic Communications. Journal of Lightwave Technology, 2010, 28, 1564-1572.	4.6	10
178	Satellite constellations: Towards the nonlinear channel capacity. , 2012, , .		10
179	Focus issue introduction: space-division multiplexing. Optics Express, 2014, 22, 32526.	3.4	10
180	Energy Efficiency of VCSELs in the Context of Short-Range Optical Links. IEEE Photonics Technology Letters, 2015, 27, 1749-1752.	2.5	10

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181	Short-Block-Length Shaping by Simple Mark Ratio Controllers for Granular and Wide-Range Spectral Efficiencies. , 2017, , .		10
182	Phase-sensitive amplifier link with distributed Raman amplification. Optics Express, 2018, 26, 19854.	3.4	10
183	Bayesian filtering framework for noise characterization of frequency combs. Optics Express, 2020, 28, 13949.	3.4	10
184	Design guidelines of actively mode-locked fiber ring lasers. IEEE Photonics Technology Letters, 1998, 10, 1103-1105.	2.5	9
185	Polarization-mode dispersion-induced outages in soliton transmission systems. IEEE Photonics Technology Letters, 2001, 13, 1079-1081.	2.5	9
186	Comparison of soliton robustness with respect to polarization-mode dispersion with first-order polarization-mode dispersionâ€“compensated linearâ€‰â€‰systems. Optics Letters, 2001, 26, 672.	3.3	9
187	37 Gbps transmission over 200 m of MMF using single cycle subcarrier modulation and a VCSEL with 20 GHz modulation bandwidth. , 2010, , .		9
188	Phase-sensitive amplified DWDM DQPSK signals using free-running Lasers with 6-dB link SNR improvement over EDFA-based systems. , 2010, , .		9
189	On the Symbol Error Probability of Regular Polytopes. IEEE Transactions on Information Theory, 2011, 57, 3411-3415.	2.4	9
190	Experimental Characterization of a Phase-Sensitive Four-Mode Fiber-Optic Parametric Amplifier. , 2012, , .		9
191	WDM Channel Capacity and its Dependence on Multichannel Adaptation Models. , 2013, , .		9
192	Experimental Demonstration of 128-SP-QAM in Uncompensated Long-Haul Transmission. , 2013, , .		9
193	Pilot-Aided Joint-Channel Carrier-Phase Estimation in Space-Division Multiplexed Multicore Fiber Transmission. Journal of Lightwave Technology, 2019, 37, 1133-1142.	4.6	9
194	Post-FEC BER Benchmarking for Bit-Interleaved Coded Modulation With Probabilistic Shaping. Journal of Lightwave Technology, 2020, 38, 4292-4306.	4.6	9
195	Analytical Modeling of Nonlinear Fiber Propagation for Four Dimensional Symmetric Constellations. Journal of Lightwave Technology, 2021, 39, 2704-2713.	4.6	9
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