Antonio Mecozzi

List of Publications by Year
in descending order

298 papers	9,241 citations	44042 48 h-index	51562 86 g-index
300 all docs	300 docs citations	300 times ranked	3081 citing authors

#	Article	IF	Citations
1	Kramersâ€“Kronig coherent receiver. Optica, 2016, 3, 1220.	4.8	494
2	Noise of mode-locked lasers. IEEE Journal of Quantum Electronics, 1993, 29, 983-996.	1.0	429
3	Soliton transmission control. Optics Letters, 1991, 16, 1841.	1.7	394
4	Properties of nonlinear noise in long, dispersion-uncompensated fiber links. Optics Express, 2013, 21, 25685.	1.7	310
5	Nonlinear Shannon Limit in Pseudolinear Coherent Systems. Journal of Lightwave Technology, 2012, 30, 2011-2024.	2.7	286
6	Accumulation of nonlinear interference noise in fiber-optic systems. Optics Express, 2014, 22, 14199.	1.7	214
7	Analysis of intrachannel nonlinear effects in highly dispersed optical pulse transmission. IEEE Photonics Technology Letters, 2000, 12, 392-394.	1.3	212
8	Saturation effects in nondegenerate four-wave mixing between short optical pulses in semiconductor laser amplifiers. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 1190-1207.	1.9	176
9	Sideband instability induced by periodic power variation in long-distance fiber links. Optics Letters, 1993, 18, 1499.	1.7	162
10	Inter-Channel Nonlinear Interference Noise in WDM Systems: Modeling and Mitigation. Journal of Lightwave Technology, 2015, 33, 1044-1053.	2.7	142
11	Modeling of Nonlinear Propagation in Space-Division Multiplexed Fiber-Optic Transmission. Journal of Lightwave Technology, 2016, 34, 36-54.	2.7	140
12	Saturation induced by picosecond pulses in semiconductor optical amplifiers. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 761.	0.9	134
13	Nonlinear propagation in multi-mode fibers in the strong coupling regime. Optics Express, 2012, 20, 11673.	1.7	134
14	Stokes-space analysis of modal dispersion in fibers with multiple mode transmission. Optics Express, 2012, 20, 11718.	1.7	133
15	Distinguishable quantum states generated via nonlinear birefringence. Physical Review Letters, 1987, 58, 1055-1058.	2.9	132
16	The statistics of polarization-dependent loss in optical communication systems. IEEE Photonics Technology Letters, 2002, 14, 313-315.	1.3	128
17	Coupled Manakov equations in multimode fibers with strongly coupled groups of modes. Optics Express, 2012, 20, 23436.	1.7	127
18	Optical polarizationâ€“based seismic and water wave sensing on transoceanic cables. Science, 2021, 371, 931-936.	6.0	124

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19	Four-wave mixing in traveling-wave semiconductor amplifiers. IEEE Journal of Quantum Electronics, 1995, 31, 689-699.	1.0	119
20	Kramersâ€“Kronig Receivers for 100-km Datacenter Interconnects. Journal of Lightwave Technology, 2018, 36, 79-89.	2.7	119
21	Generation of macroscopically distinguishable quantum states and detection by the squeezed-vacuum technique. Journal of the Optical Society of America B: Optical Physics, 1987, 4, 1700.	0.9	111
22	Injection locking in distributed feedback semiconductor lasers. IEEE Journal of Quantum Electronics, 1991, 27, 1688-1695.	1.0	111
23	Cancellation of timing and amplitude jitter in symmetric links using highly dispersed pulses. IEEE Photonics Technology Letters, 2001, 13, 445-447.	1.3	107
24	Theory of the ultrafast optical response of active semiconductor waveguides. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 1803.	0.9	105
25	Efficiency and noise performance of wavelength converters based on FWM in semiconductor optical amplifiers. IEEE Photonics Technology Letters, 1995, 7, 357-359.	1.3	90
26	System impact of intra-channel nonlinear effects in highly dispersed optical pulse transmission. IEEE Photonics Technology Letters, 2000, 12, 1633-1635.	1.3	86
27	Limits to long-haul coherent transmission set by the Kerr nonlinearity and noise of the in-line amplifiers. Journal of Lightwave Technology, 1994, 12, 1993-2000.	2.7	83
28	Mean-square magnitude of all orders of polarization mode dispersion and the relation with the bandwidth of the principal states. IEEE Photonics Technology Letters, 2000, 12, 53-55.	1.3	79
29	Kramersâ€“Kronig receivers. Advances in Optics and Photonics, 2019, 11, 480.	12.1	76
30	A time-domain computer simulator of the nonlinear response of semiconductor optical amplifiers. IEEE Journal of Quantum Electronics, 2000, 36, 1072-1080.	1.0	74
31	Modulation and filtering control of soliton transmission. Journal of the Optical Society of America B: Optical Physics, 1992, 9, 1350.	0.9	73
32	Four-wave mixing in semiconductor optical amplifiers: a practical tool for wavelength conversion. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 522-528.	1.9	72
33	Reduced Model for the Nonlinear Response of Reflective Semiconductor Optical Amplifiers. IEEE Photonics Technology Letters, 2013, 25, 2243-2246.	1.3	70
34	Pulse Collision Picture of Inter-Channel Nonlinear Interference in Fiber-Optic Communications. Journal of Lightwave Technology, 2016, 34, 593-607.	2.7	70
35	Random coupling between groups of degenerate fiber modes in mode multiplexed transmission. Optics Express, 2013, 21, 9484.	1.7	65
36	Analytical theory of four-wave mixing in semiconductor amplifiers. Optics Letters, 1994, 19, 892.	1.7	64

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37	Long-distance transmission at zero dispersion: combined effect of the Kerr nonlinearity and the noise of the in-line amplifiers. Journal of the Optical Society of America B: Optical Physics, 1994, 11, 462.	0.9	64
38	The modulation response of a semiconductor laser amplifier. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 851-860.	1.9	63
39	Polarization Multiplexing With the Kramers-Kronig Receiver. Journal of Lightwave Technology, 2017, 35, 5418-5424.	2.7	63
40	Phase noise of fourâ€wave mixing in semiconductor lasers. Applied Physics Letters, 1992, 60, 2454-2456.	1.5	62
41	Probability density functions of the nonlinear phase noise. Optics Letters, 2004, 29, 673.	1.7	62
42	On the capacity of intensity modulated systems using optical amplifiers. IEEE Photonics Technology Letters, 2001, 13, 1029-1031.	1.3	60
43	Low-noise and very high-efficiency four-wave mixing in 1.5-mm-long semiconductor optical amplifiers. IEEE Photonics Technology Letters, 1997, 9, 746-748.	1.3	59
44	On shaping gain in the nonlinear fiber-optic channel. , 2014, , .		56
45	A compensator for the effects of high-order polarization mode dispersion in optical fibers. IEEE Photonics Technology Letters, 2000, 12, 434-436.	1.3	55
46	Long-term storage of a soliton bit stream by use of phase-sensitive amplification. Optics Letters, 1994, 19, 2050.	1.7	54
47	Study of the frequency autocorrelation of the differential group delay in fibers with polarization mode dispersion. Optics Letters, 2000, 25, 707.	1.7	54
48	The delay spread in fibers for SDM transmission: dependence on fiber parameters and perturbations. Optics Express, 2015, 23, 2196.	1.7	54
49	218-Gb/s Single-Wavelength, Single-Polarization, Single-Photodiode Transmission Over 125-km of Standard Singlemode Fiber Using Kramers-Kronig Detection. , 2017, , .		51
50	All-optical switching and intensity discrimination by polarization instability in periodically twisted fiber filters. Optics Letters, 1987, 12, 275.	1.7	49
51	Novel measurement technique of Î± factor in DFB semiconductor lasers by injection locking. Electronics Letters, 1990, 26, 997.	0.5	49
52	Very high efficiency fourâ€wave mixing in a single semiconductor travelingâ€wave amplifier. Applied Physics Letters, 1996, 68, 2186-2188.	1.5	49
53	Nonlinear interference noise in space-division multiplexed transmission through optical fibers. Optics Express, 2017, 25, 13055.	1.7	49
54	Investigation of carrier heating and spectral hole burning in semiconductor amplifiers by highly nondegenerate fourâ€wave mixing. Applied Physics Letters, 1994, 64, 2492-2494.	1.5	48

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55	Experimental measurements and theory of first passage time in pulse-modulated semiconductor lasers. IEEE Journal of Quantum Electronics, 1989, 25, 1440-1449.	1.0	47
56	Effect of filters on soliton interactions in wavelength-division-multiplexing systems. Optics Letters, 1992, 17, 988.	1.7	47
57	Efficiency flattening and equalization of frequency up- and down-conversion using four-wave mixing in semiconductor optical amplifiers. IEEE Photonics Technology Letters, 1998, 10, 1398-1400.	1.3	47
58	Switches and frequency converters based on cross-gain modulation in semiconductor optical amplifiers. IEEE Photonics Technology Letters, 1997, 9, 749-751.	1.3	46
59	Polarization sensing using submarine optical cables. Optica, 2021, 8, 788.	4.8	46
60	Passage time statistics in semiconductor laser turn on. Physical Review A, 1988, 38, 3136-3138.	1.0	45
61	Long-term storage of a bit stream of solitons. Optics Letters, 1992, 17, 1500.	1.7	45
62	Measurement and calculation of the critical pulsewidth for gain saturation in semiconductor optical amplifiers. Optics Communications, 1999, 164, 51-55.	1.0	45
63	Intensity impulse response of SDM links. Optics Express, 2015, 23, 5738.	1.7	45
64	Linearized quantum-fluctuation theory of spectrally filtered optical solitons. Optics Letters, 1997, 22, 1232.	1.7	44
65	Theory of nondegenerate four-wave mixing between pulses in a semiconductor waveguide. IEEE Journal of Quantum Electronics, 1997, 33, 545-555.	1.0	44
66	Signal-to-Noise-Ratio Degradation Caused by Polarization-Dependent Loss and the Effect of Dynamic Gain Equalization. Journal of Lightwave Technology, 2004, 22, 1856-1871.	2.7	44
67	Statistics of polarization dependent loss in an installed long-haul WDM system. Optics Express, 2011, 19, 6790.	1.7	44
68	Field-Deployed Multi-Core Fiber Testbed. , 2019, , .		44
69	Experimental observation of time jitter in semiconductor laser turnâ€on. Applied Physics Letters, 1988, 52, 2203-2204.	1.5	43
70	4.3 terahertz fourâ€wave mixing spectroscopy of InGaAsP semiconductor amplfiers. Applied Physics Letters, 1994, 65, 2633-2635.	1.5	43
71	Nearly degenerate four-wave mixing in distributed feedback semiconductor lasers operating above threshold. IEEE Journal of Quantum Electronics, 1993, 29, 1477-1487.	1.0	40
72	Modeling and performance metrics of MIMO-SDM systems with different amplification schemes in the presence of mode-dependent loss. Optics Express, 2015, 23, 2203.	1.7	40

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73	Modeling the Bit-Error-Rate Performance of Nonlinear Fiber-Optic Systems. Journal of Lightwave Technology, 2016, 34, 3482-3489.	2.7	40
74	Small-signal theory of wavelength converters based on cross-gain modulation in semiconductor optical amplifiers. IEEE Photonics Technology Letters, 1996, 8, 1471-1473.	1.3	39
75	Theory of heterodyne pumpâ€“probe experiments with femtosecond pulses. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 2437.	0.9	39
76	On the optimization of the gain distribution of transmission lines with unequal amplifier spacing. IEEE Photonics Technology Letters, 1998, 10, 1033-1035.	1.3	39
77	Spatial instabilities, all-optical limiting, and thresholding in nonlinear distributed-feedback devices. Optics Letters, 1987, 12, 1008.	1.7	37
78	Capacity Limits in Single-Mode Fiber and Scaling for Spatial Multiplexing. , 2012, , .		37
79	Response function for gain and refractive index dynamics in active semiconductor waveguides. Applied Physics Letters, 1994, 65, 1736-1738.	1.5	35
80	Retrieving the full optical response from amplitude data by Hilbert transform. Optics Communications, 2009, 282, 4183-4187.	1.0	34
81	Statistical distribution of trajectories in the time-intensity plane during semiconductor-laser gain switching. Physical Review Letters, 1990, 64, 3003-3006.	2.9	33
82	Outage probabilities for fiber routes with finite number of degrees of freedom. IEEE Photonics Technology Letters, 2005, 17, 345-347.	1.3	32
83	Time resolved fourâ€wave mixing technique to measure the ultrafast coherent dynamics in semiconductor optical amplifiers. Applied Physics Letters, 1996, 68, 3236-3238.	1.5	30
84	Statistics of the DGD in PMD Emulators. IEEE Photonics Technology Letters, 2004, 16, 1840-1842.	1.3	30
85	Theoretical Characterization and System Impact of the Hinge Model of PMD. Journal of Lightwave Technology, 2006, 24, 4064-4074.	2.7	30
86	Raman amplification in multimode fibers with random mode coupling. Optics Letters, 2013, 38, 1188.	1.7	30
87	Soliton transmission control with semiconductor amplifiers. Optics Letters, 1995, 20, 1616.	1.7	29
88	Soliton transmission control by Butterworth filters. Optics Letters, 1995, 20, 1859.	1.7	29
89	Fourâ€wave mixing efficiency in traveling wave semiconductor optical amplifiers at high saturation. Applied Physics Letters, 1995, 67, 2753-2755.	1.5	27
90	Timing jitter in soliton transmission with sliding filters. Optics Letters, 1996, 21, 402.	1.7	27

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91	Roadmap on multimode photonics. Journal of Optics (United Kingdom), 2022, 24, 083001.	1.0	27
92	Four-photon squeezed states: An exactly solvable model. Physical Review A, 1988, 37, 4778-4784.	1.0	26
93	Assessing the Effects of Mode-Dependent Loss in Space-Division Multiplexed Systems. Journal of Lightwave Technology, 2014, 32, 1317-1322.	2.7	26
94	Kramersâ€“Kronig PAM Transceiver and Two-Sided Polarization-Multiplexed Kramersâ€“Kronig Transceiver. Journal of Lightwave Technology, 2018, 36, 468-475.	2.7	26
95	Analysis of transients in pulse modulated semiconductor lasers biased near threshold. Applied Physics Letters, 1989, 55, 769-771.	1.5	25
96	Mid-span spectral inversion without frequency shift for fiber dispersion compensation: a system demonstration. IEEE Photonics Technology Letters, 1999, 11, 275-277.	1.3	25
97	Squeezed-state Superpositions in a Damped Nonlinear Oscillator. Journal of Modern Optics, 1989, 36, 1607-1614.	0.6	24
98	Quasi-deterministic theory of semiconductor-laser gain switching. Optics Letters, 1990, 15, 1067.	1.7	24
99	Optical spectral inversion without frequency shift by four-wave mixing using two pumps with orthogonal polarization. IEEE Photonics Technology Letters, 1998, 10, 355-357.	1.3	24
100	Stokes-Space Analysis of Modal Dispersion of SDM Fibers With Mode-Dependent Loss: Theory and Experiments. Journal of Lightwave Technology, 2020, 38, 1668-1677.	2.7	24
101	Time varying ISI model for nonlinear interference noise. , 2014, , .		23
102	Role of polarization-mode coupling in the crosstalk between cores of weakly-coupled multi-core fibers. Optics Express, 2020, 28, 12847.	1.7	23
103	Kramers-Kronig PAM transceiver. , 2017, , .		23
104	Theory of optical amplifier chains. Journal of Lightwave Technology, 1998, 16, 745-756.	2.7	22
105	Timing jitter in wavelength-division-multiplexed filtered soliton transmission. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 152.	0.9	22
106	Transient multimode dynamics in nearly single-mode lasers. IEEE Journal of Quantum Electronics, 1991, 27, 332-343.	1.0	21
107	Effects of ultrafast processes on frequency converters based on four-wave mixing in semiconductor optical amplifiers. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 1156-1161.	1.9	21
108	Polarization-Dependent Loss and Its Effect on the Signal-to-Noise Ratio in Fiber-Optic Systems. IEEE Photonics Technology Letters, 2004, 16, 671-673.	1.3	21

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109	High saturation behavior of the fourâ€wave mixing signal in semiconductor amplifiers. Applied Physics Letters, 1995, 66, 1184-1186.	1.5	20
110	Spectral effects in short pulse pumpâ€probe measurements. Applied Physics Letters, 1996, 68, 449-451.	1.5	20
111	Characterization of the time dependence of polarization mode dispersion. Optics Letters, 2004, 29, 2599.	1.7	20
112	Polarization-insensitive four-wave mixing in a semiconductor optical amplifier. Applied Physics Letters, 1998, 72, 2651-2653.	1.5	19
113	Frequency-conversion efficiency independent of signal-polarization and conversion-interval using four-wave mixing in semiconductor optical amplifiers. IEEE Photonics Technology Letters, 1999, 11, 656-658.	1.3	19
114	The Roles of Semiconductor Optical Amplifiers in Optical Networks. Optics and Photonics News, 2001, 12, 36.	0.4	19
115	Information Capacity of Direct Detection Optical Transmission Systems. Journal of Lightwave Technology, 2018, 36, 689-694.	2.7	19
116	Time jitter in multimode Fabryâ€“Perot laser diodes. Applied Physics Letters, 1988, 53, 2362-2364.	1.5	18
117	Analytic Study of the Modulation Response of Reflective Semiconductor Optical Amplifiers. Journal of Lightwave Technology, 2015, 33, 4367-4376.	2.7	18
118	Long-distance soliton transmission with filtering. Journal of the Optical Society of America B: Optical Physics, 1993, 10, 2321.	0.9	17
119	Transient four-wave mixing with a collinear pump and probe. Optics Letters, 1996, 21, 1017.	1.7	16
120	PMD-induced penalty statistics in fiber links. IEEE Photonics Technology Letters, 2005, 17, 1013-1015.	1.3	16
121	Single-wavelength, single-polarization, single- photodiode kramers-kronig detection of 440-Gb/s entropy-loaded discrete multitone modulation transmitted over 100-km SSMF. , 2017, , .		16
122	Error probability of amplified IMDD systems at zero dispersion. Electronics Letters, 1993, 29, 2136.	0.5	15
123	Noise in wavelength conversion using four-wave mixing in semiconductor optical amplifiers. Applied Physics Letters, 1997, 70, 306-308.	1.5	15
124	Long-term storage of a soliton bit stream using phase-sensitive amplification: effects of solitonâ€“soliton interactions and quantum noise. Optics Communications, 1998, 157, 310-326.	1.0	15
125	Sub-Poissonian light by spatial soliton filtering. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1998, 10, L21-L26.	1.0	15
126	Squeezed vacuum in the detection of macroscopically distinguishable quantum states. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 121, 101-104.	0.9	14

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127	Parametric amplification and signal-to-noise ration in optical transmission lines. Optics Communications, 1990, 75, 256-262.	1.0	14
128	Comparison of different DFB laser models within the European COST 240 collaboration. IEE Proceedings: Optoelectronics, 1994, 141, 82-88.	0.8	14
129	Polarization-independent four-wave mixing in a bidirectional traveling-wave semiconductor optical amplifier. Applied Physics Letters, 1999, 75, 3914-3916.	1.5	14
130	High-capacity direct-detection systems. , 2020, , 419-441.		14
131	Theory of chemical fluctuations in thermal explosions. Physical Review A, 1985, 31, 2454-2459.	1.0	13
132	Minimum-phase impulse response channels. IEEE Transactions on Communications, 2009, 57, 3529-3532.	4.9	13
133	Periodic locking of chaos in semiconductor lasers with optical feedback. Optics Communications, 2009, 282, 2917-2920.	1.0	13
134	Polarization scattering by intra-channel collisions. Optics Express, 2012, 20, 1213.	1.7	13
135	Quantum Limits on the Energy Consumption of Optical Transmission Systems. Journal of Lightwave Technology, 2014, 32, 1853-1860.	2.7	13
136	4 Ã— 240 Gb/s Dense WDM and PDM Kramers-Kronig Detection with 125-km SSMF Transmission. , 2017, , .		13
137	The Enhanced Kramers Kronig Receiver. , 2018, , .		13
138	Parametric amplification and squeezed-light generation in a nonlinear directional coupler. Optics Letters, 1988, 13, 925.	1.7	12
139	Pump-wavelength dependence of FWM performance in semiconductor optical amplifiers. IEEE Photonics Technology Letters, 1997, 9, 743-745.	1.3	11
140	Intra-channel nonlinearity in differentially phase-modulated transmission. Optics Express, 2011, 19, 3990.	1.7	11
141	Mitigation of inter-channel nonlinear interference in WDM systems. , 2014, , .		11
142	First Monolithically Integrated Dual-Pumped Phase-Sensitive Amplifier Chip Based on a Saturated Semiconductor Optical Amplifier. IEEE Journal of Quantum Electronics, 2016, 52, 1-12.	1.0	11
143	Transmission in 125-km SMF with 3.9 bit/s/Hz spectral efficiency using a single-drive MZM and a direct-detection Kramers-Kronig receiver without optical CD compensation. , 2018, , .		11
144	Autocorrelation of the polarization-dependent loss in fiber routes. Optics Letters, 2011, 36, 4005.	1.7	10

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145	Transmission over Randomly-Coupled 4-Core Fiber in Field-Deployed Multi-Core Fiber Cable. , 2020, , .		10
146	Gain and noise in rare-earth-doped optical fibers. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 134.	0.9	9
147	Study of the two-frequency moment generating function of the PMD vector. IEEE Photonics Technology Letters, 2003, 15, 1713-1715.	1.3	9
148	A Unified Theory of Intrachannel Nonlinearity in Pseudolinear Phase-Modulated Transmission. IEEE Photonics Journal, 2010, 2, 728-735.	1.0	9
149	Unified Treatment of Forward and Backward Propagating Polarized Lightwaves. Journal of Lightwave Technology, 2011, 29, 642-655.	2.7	9
150	Nonlinear propagation equations in fibers with multiple modesâ€"Transitions between representation bases. APL Photonics, 2019, 4, 022806.	3.0	9
151	The Ergodic GN Model for Space-Division Multiplexing With Strong Mode Coupling. Journal of Lightwave Technology, 2022, 40, 3263-3276.	2.7	9
152	Frequency converters based on FWM in traveling-wave optical amplifiers: Theoretical aspects. Fiber and Integrated Optics, 1996, 15, 243-256.	1.7	8
153	Performance evaluation of very long span direct detection intensity and polarization modulated systems. Journal of Lightwave Technology, 1996, 14, 261-272.	2.7	8
154	Applications of four-wave mixing in semiconductor optical amplifiers. , 0, , .		8
155	Quantum and semiclassical theory of noise in optical transmission lines employing in-line erbium amplifiers. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 607.	0.9	8
156	Polarization- and interval-independent wavelength conversion at 2.5 Gb/s by means of bidirectional four-wave mixing in semiconductor optical amplifiers. IEEE Photonics Technology Letters, 2000, 12, 852-854.	1.3	8
157	Statistics of the polarization mode dispersion dynamics. Optics Letters, 2007, 32, 3032.	1.7	8
158	Nonlinear interference noise in WDM systems and approaches for its cancelation. , 2014, , .		8
159	Characterization and stability measurement of deployed multicore fibers for quantum applications. Photonics Research, 2021, 9, 1992.	3.4	8
160	The Kramersâ€"Kronig Receiver. , 2018, , .		8
161	Noise and Transient Dynamics in Semiconductor Lasers. Springer Proceedings in Physics, 1991, , 259-292.	0.1	8
162	Cavity standing-wave and gain compression coefficient in semiconductor lasers. Optics Letters, 1994, 19, 640.	1.7	7

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163	A Model for Temporal Evolution of PMD. IEEE Photonics Technology Letters, 2008, 20, 1012-1014.	1.3	7
164	Theory of polarization mode dispersion with linear birefringence. Optics Letters, 2008, 33, 1315.	1.7	7
165	Intrachannel nonlinearity enhancement in polarization multiplexed phase modulated systems with differential detection. Optics Letters, 2011, 36, 3903.	1.7	7
166	Correlations and phase noise in NLIN- modelling and system implications. , 2016, , .		7
167	Scaling of inter-channel nonlinear interference noise and capacity with the number of strongly coupled modes in SDM systems. , 2016, , .		7
168	Light depolarization owing to amplified spontaneous emission and Kerr nonlinearity in long-haul fiber links close to zero dispersion. Optics Letters, 1995, 20, 1465.	1.7	6
169	Subpicosecond heterodyne four-wave mixing experiments on InGaAsP semiconductor laser amplifiers. Optics Communications, 1997, 139, 117-124.	1.0	6
170	Pulse broadening due to polarization mode dispersion with first-order compensation. Optics Letters, 2005, 30, 1626.	1.7	6
171	Theory of the effect of geomagnetic field on plug-and-play schemes for fiber-based quantum key distribution systems. Optics Letters, 2008, 33, 1476.	1.7	6
172	Chaos self-synchronization in a semiconductor laser. Optics Letters, 2009, 34, 1387.	1.7	6
173	Impairments Due to Polarization-Mode Dispersion in Chaos-Encrypted Communication Systems. IEEE Photonics Technology Letters, 2009, 21, 1387-1389.	1.3	6
174	Nonlinear phase and polarization rotation noise in fully loaded WDM systems. , 2015, , .		6
175	Polarization-Related Statistics of Raman Crosstalk in Single-Mode Optical Fibers. Journal of Lightwave Technology, 2016, 34, 1191-1205.	2.7	6
176	Pulse-to-pulse frequency jitter in diode lasers and soliton transmission. IEEE Photonics Technology Letters, 1993, 5, 1455-1458.	1.3	5
177	Accelerated Hyperfractionated Radiotherapy and Concurrent Protracted Venous Infusion Chemotherapy in Locally Advanced Head and Neck Cancer. American Journal of Clinical Oncology: Cancer Clinical Trials, 2002, 25, 431-437.	0.6	5
178	Degree of Coherence in Space-Division Multiplexed Transmission. Journal of Lightwave Technology, 2014, 32, 63-69.	2.7	5
179	Optimal Polarization Launch for Raman Depletion Minimization in GPON and TWDM-PON Coexistence. , 2015, , .		5
180	Random Polarization-Mode Coupling Explains Inter-Core Crosstalk in Uncoupled Multi-Core Fibers. , 2020, , .		5

#	Article	IF	Citations
181	Dynamic Skew Measurements in a Deployed 4-Core Fiber. , 2020, , .		5
182	Transfer Matrix Characterization of Field-Deployed MCFs. , 2020, , .		5
183	Amplified spontaneous emission in soliton transmission systems employing sliding filters. Journal of Lightwave Technology, 1998, 16, 37-42.	2.7	4
184	Bit rate and pulse width dependence of four-wave mixing of short optical pulses in semiconductor optical amplifiers. Optics Letters, 1999, 24, 1675.	1.7	4
185	Non-adiabatic effects in semiconductor waveguides. , 2000, , .		4
186	Noiseless amplification and signal-to-noise ratio in single-sideband transmission. Optics Letters, 2003, 28, 203.	1.7	4
187	Non-Maxwellian probability density function of fibers with lumped polarization mode dispersion elements. Optics Letters, 2004, 29, 1057.	1.7	4
188	A simple analytical model for PMD temporal evolution. , 2006, , .		4
189	Efficient and Accurate Modeling of Multiwavelength Propagation in SOAs: A Generalized Coupled-Mode Approach. Journal of Lightwave Technology, 2016, 34, 2188-2197.	2.7	4
190	Propagation effects in few-mode fibers. , 2017, , .		4
191	A Unified Theory of Intrachannel Nonlinearity in Pseudolinear Transmission. , 2011, , 253-291.		4
192	Seismic Sensing in Submarine Fiber Cables. , 2021, , .		4
193	Polarization Sensing with Transmission Fibers in Undersea Cables. , 2022, , .		4
194	Statistics of phase noise in single-mode semiconductor lasers: free-running, weak external feedback and injection-locking configurations. Electronics Letters, 1987, 23, 1183.	0.5	3
195	Non-Gaussian statistics of frequency fluctuations in line-narrowed semiconductor lasers. IEEE Journal of Quantum Electronics, 1988, 24, 1985-1988.	1.0	3
196	Connection between linewidth saturation and power increase of transverse magnetic mode in ridge distributed feedback lasers. Applied Physics Letters, 1989, 55, 2582-2584.	1.5	3
197	Injection locking properties of DFB semiconductor lasers. , 1990, , .		3
198	Theoretical analysis of optical pulse position modulation communication systems using semiconductor lasers. Optical and Quantum Electronics, 1991, 23, 1077-1089.	1.5	3

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199	Light depolarisation in long fibre links. Electronics Letters, 1995, 31, 473-475.	0.5	3
200	PMD penalties in long nonsoliton systems and the effect of inline filtering. IEEE Photonics Technology Letters, 2006, 18, 1179-1181.	1.3	3
201	Dispersion management in phase modulated optical transmission systems. , 2010, , .		3
202	Nonlinear Equations of Propagation in Multi-Mode Fibers with Random Mode Coupling. , 2013, , .		3
203	Characterization of mode-dependent loss in SDM systems. , 2014, , .		3
204	Delay spread in strongly coupled multi-core fibers for SDM transmission. , 2015, , .		3
205	Interplay between Raman and polarization effects in next-generation passive optical networks. Optics Express, 2015, 23, 13924.	1.7	3
206	Squeezing in a nonlocal photon fluid. Physical Review A, 2017, 96, .	1.0	3
207	Embracing nonlinearity. Nature Photonics, 2017, 11, 537-539.	15.6	3
208	Near-Zero Modal-Dispersion (NEMO) Coupled-Core Multi-Core Fibers. Journal of Lightwave Technology, 2021, 39, 7517-7528.	2.7	3
209	Theory of four-wave mixing. , 1999, , 281-320.		3
210	Coherent detection with an incoherent local oscillator. Optics Express, 2018, 26, 33970.	1.7	3
211	Enhancing the Kramersâ€“Kronig receiver via dispersion-based spatial diversity. Optics Letters, 2020, 45, 3494.	1.7	3
212	Transient statistics for two-mode gas ring lasers. Physical Review A, 1993, 48, 2426-2432.	1.0	2
213	Signal propagation in the presence of side-band instability in long fiber links. Microwave and Optical Technology Letters, 1994, 7, 537-539.	0.9	2
214	Highly nondegenerate four-wave mixing in semiconductor laser amplifiers. , 1996, , .		2
215	Frequency converters, spectral inverters and switches based on four-wave mixing in semiconductor optical amplifiers. , 0, , .		2
216	Theoretical evaluation of the noise growth and of the system performance for a link constituted by a chain of N optical amplifiers with in-line filters. , 0, , .		2

#	Article	IF	Citations
217	Transient and time-resolved four-wave mixing with collinear pump and probe pulses using the heterodyne technique. Journal of Optics, 1998, 7, 335-344.	0.5	2
218	Limits on the spectral efficiency of intensity modulated direct detection systems with optical amplifiers. , 0, , .		2
219	Dispersion-induced nonlinearities in semiconductors. Optics Communications, 2002, 210, 173-177.	1.0	2
220	Effect of fiber-spinning profile on plug-and-play quantum-key distribution systems. Optics Letters, 2008, 33, 1096.	1.7	2
221	A Theory of Polarization-Mode Dispersion of Spun Fibers. Journal of Lightwave Technology, 2009, 27, 938-943.	2.7	2
222	Mode-division multiplexing for next-generation optical transport. , 2012, , .		2
223	Fundamental limits on the energy consumption in fiber-optic communications. , 2013, , .		2
224	Modeling Raman amplification in multimode and multicore fibers. , 2014, , .		2
225	Single-chip dual-pumped SOA-based phase-sensitive amplifier at 1550nm. , 2015, , .		2
226	Feature issue introduction: Nonlinearity mitigation for coherent transmission systems. Optics Express, 2017, 25, 4552.	1.7	2
227	Fundamental Limits to the Measurement of the Polarization of Classical Light. Journal of Lightwave Technology, 2021, 39, 2387-2396.	2.7	2
228	A statistical theory of PMD-induced power penalty. , 2005, , .		2
229	Inter-Channel Nonlinear Interference Noise in Fully Loaded WDM Systems. , 2016, , .		2
230	A Model of the Nonlinear Interference in Space-Division Multiplexed Systems with Arbitrary Modal Dispersion. , 2021, , .		2
231	Optical Network Sensing: Opportunities and Challenges. , 2022, , .		2
232	Optical polarization-based sensing and localization of submarine earthquakes. , 2022, , .		2
233	An All-optical Mechanism of Sub-poissonian Light Generation. Journal of Modern Optics, 1987, 34, 1129-1134.	0.6	1
234	Nearly degenerate four wave mixing in DFB lasers. , 0, , .		1

#	Article	IF	Citations
235	Ultrafast gain and refractive index dynamics of semiconductor amplifiers measured by four-wave mixing. , 0, , .		1
236	Efficiency of frequency translators based on four-wave mixing in semiconductor optical amplifiers. Journal of Optics, 1995, 4, 385-389.	0.5	1
237	Gain saturation effects in a cascade of semiconductor optical amplifiers. , 0, , .		1
238	Reduction of the cross-phase modulation impairment in wavelength division multipled systems with dispersion management. , 0, , .		1
239	Noise enhancement caused by polarization dependent loss and the effect of dynamic gain equalizers. , 0, , .		1
240	Modelling of polarization mode dispersion in optical communications systems. Journal of Optical and Fiber Communications Research, 2004, 1, 248-265.	0.5	1
241	Efficient method for the extraction of the conditional probability distribution of polarization mode dispersion. Optics Letters, 2004, 29, 1482.	1.7	1
242	Broad-band PMD mitigation with a single polarization controller. IEEE Photonics Technology Letters, 2005, 17, 2574-2576.	1.3	1
243	Chaos Encrypted Optical Communication System. Fiber and Integrated Optics, 2008, 27, 308-316.	1.7	1
244	Nonintrusive characterization of long-fiber-link birefringence. Optics Letters, 2008, 33, 2740.	1.7	1
245	Duration of PMD-induced system outages. , 2008, , .		1
246	Quantum bit-error rate in plug-and-play quantum key distribution systems caused by axial magnetic fields. Fortschritte Der Physik, 2009, 57, 1084-1093.	1.5	1
247	Optical Nonlinearity in Multi-Mode Fibers with Random Mode Coupling. , 2012, , .		1
248	Modeling of linear and nonlinear coupling in multiple-mode fiber optic transmission with MIMO signal processing. , 2012, , .		1
249	Approaching fundamental energy consumption limits in optical communications. , 2013, , .		1
250	Nonlinear interference noise in fibre-optic communications. , 2014, , .		1
251	Nonlinear propagation in Space-Division Multiplexed fiber-optic transmission. , 2015, , .		1
252	The Dynamics of Inter-channel Nonlinear Distortions in Fiber-Transmission Systems. , 2015, , .		1

#	Article	IF	Citations
253	Inter-modal nonlinear interference in SDM systems and its impact on information capacity. , 2016, , .		1
254	Nonlinear Propagation in Multimode Fibers with Random Mode Coupling. , 2013, , .		1
255	Polarization Dependent Loss and its Effect in WDM Systems. , 2002, , .		1
256	Nonlinearities in space-division multiplexed transmission. , 2013, , .		1
257	Analytical expression for the modulation bandwidth of a reflective semiconductor optical amplifier. , 2014, , .		1
258	Distributed measurement of birefringence in uncoupled multicore fibers. , 2021, , .		1
259	Marcoscopic effects of quantum fluctuations: statistical excitation of a side-mode in laser switching. , 1990, , .		0
260	Evolution of signals in longâ€haul fiber links. Microwave and Optical Technology Letters, 1993, 6, 675-677.	0.9	0
261	Nonlinearly Induced Chromatic Dispersion Compensation In Long Haul Fiber Links. , 0, , .		0
262	Nonlinearities in high-index-coupled lambda /4-shifted distributed-feedback semiconductor lasers. IEE Proceedings: Optoelectronics, 1994, 141, 8-12.	0.8	0
263	Nonlinear evolution of polarization in longâ€haul fiber links and performance evaluation of polarization modulation systems. Microwave and Optical Technology Letters, 1995, 9, 358-361.	0.9	0
264	Increase of signal to noise ratio in wavelength conversion using four-wave mixing in semiconductor optical amplifiers. , 0, , .		0
265	Single-channel transmissions over very long optical links with zero average chromatic dispersion adopting NRZ intensity and polarisation modulation. Optics Communications, 1996, 123, 89-93.	1.0	0
266	Pump-power dependence of intraband scattering times in semiconductor optical amplifiers. , 0, , .		0
267	Efficiency equalization of up- and down-conversion four-wave mixing in a semiconductor optical amplifier using two pumps with orthogonal polarization. , 0, , .		0
268	Nearly Degenerate Four-Wave Mixing in Semiconductor Optical Amplifiers. , 0, , .		0
269	Dispersion compensation using mid-span spectral inversion without frequency shift. , 0, , .		0
270	Dispersion-induced non-linearities in semiconductors. , 0, , .		0

#	Article	IF	Citations
271	Semiconductor devices for all-optical signal processing: just how fast can they go?. , 0, , .		0
272	Saturation properties of four-wave mixing between short optical pulses in semiconductor optical amplifiers. , 0, , .		0
273	Bi-directional, polarization-independent four-wave mixing in semiconductor optical amplifiers. , 0, , .		0
274	Introduction to the issue on modeling of high data rate optical fiber communication systems. IEEE Journal of Selected Topics in Quantum Electronics, 2000, 6, 221-222.	1.9	0
275	The interplay between nonlinear effects in modern optical communications systems. , 0, , .		0
276	A new stochastic representation for the decay from a metastable state. Physica A: Statistical Mechanics and Its Applications, 2002, 315, 290-298.	1.2	0
277	Noiseless amplification and signal-to-noise ratio in single-sideband transmission: erratum. Optics Letters, 2003, 28, 1278.	1.7	0
278	The statistics of the frequency dependence of polarization mode dispersion in optical fibers. , 2003, , .		0
279	A non-intrusive characterization of long fiber link birefringence. , 2008, , .		0
280	Modeling linear and nonlinear transmission in multi-mode fibers. Proceedings of SPIE, 2013, , .	0.8	0
281	Criticality of assumptions in the study of performance degradation caused by mode-dependent loss in SDM systems. , 2014, , .		0
282	Modeling nonlinear interference noise in fiber optic transmission. , 2014, , .		0
283	CLEOÂ®/Europe-EQEC 2017 Shock Waves' Squeezing. , 2017, , .		0
284	Foreword to the Special Issue on the 44th European Conference on Optical Communication (ECOC) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.7	0
285	APPLICATION OF A STOCHASTIC REPRESENTATION IN NUMERICAL STUDIES OF THE RELAXATION FROM A METASTABLE STATE. Computational Methods in Science and Technology, 2001, 7, 83-90.	0.3	0
286	Broadband PMD mitigation using a mid-span polarization controller. , 2005, , .		0
287	Polarization Scattering by Intra-Channel Collisions in Phase-Modulated Transmission. , 2011, , .		0
288	Soliton Transmission Control with Semiconductor Amplifiers. , 1995, , .		0

#	Article	IF	Citations
289	Devices for all-optical wavelength conversion and spectral inversion. IFIP Advances in Information and Communication Technology, 1999, , 25-29.	0.5	0
290	Optical nonlinearities in space-division multiplexed transmission. , 2015, , .		0
291	Investigation of an Integrated Photonic Dual-Pumped Phase-Sensitive Amplifier based on a Highly Saturated Semiconductor Optical Amplifier. , 2016, , .		0
292	Generalized uncertainty principle and squeezing in nonlinear nonlocal photon fluids. , 2017, , .		0
293	Nonlinear Propagation in Fibers for Space Division Multiplexing. , 2017, , .		0
294	The Kramersâ€“Kronig Receiver. , 2017, , .		0
295	Kramers-Kronig coherent receiver. , 2018, , .		0
296	Kramersâ€“Kronig receivers: erratum. Advances in Optics and Photonics, 2019, 11, 826.	12.1	0
297	Nonlinear Optics: feature issue introduction. Optical Materials Express, 2020, 10, 774.	1.6	0
298	Nonlinear Optics: feature issue introduction. Optics Express, 2020, 28, 5883.	1.7	0