

Sergei K Turitsyn

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7229418/publications.pdf>

Version: 2024-02-01

423
papers

13,937
citations

19608

61
h-index

30848

102
g-index

429
all docs

429
docs citations

429
times ranked

4734
citing authors

#	ARTICLE	IF	CITATIONS
1	Random distributed feedback fibre laser. Nature Photonics, 2010, 4, 231-235.	15.6	797
2	Time stretch and its applications. Nature Photonics, 2017, 11, 341-351.	15.6	333
3	Averaged pulse dynamics in a cascaded transmission system with passive dispersion compensation. Optics Letters, 1996, 21, 327.	1.7	321
4	Random distributed feedback fibre lasers. Physics Reports, 2014, 542, 133-193.	10.3	315
5	Nonlinear Fourier transform for optical data processing and transmission: advances and perspectives. Optica, 2017, 4, 307.	4.8	289
6	Dispersion-managed solitons in fibre systems and lasers. Physics Reports, 2012, 521, 135-203.	10.3	255
7	Recent progress in investigating optical rogue waves. Journal of Optics (United Kingdom), 2013, 15, 060201.	1.0	252
8	Recent advances in fundamentals and applications of random fiber lasers. Advances in Optics and Photonics, 2015, 7, 516.	12.1	248
9	Generation of double-scale femto/pico-second optical lumps in mode-locked fiber lasers. Optics Express, 2009, 17, 20707.	1.7	244
10	Machine learning and applications in ultrafast photonics. Nature Photonics, 2021, 15, 91-101.	15.6	219
11	Tunable random fiber laser. Physical Review A, 2011, 84, .	1.0	208
12	Nonlinear modes of a macroscopic quantum oscillator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 278, 225-230.	0.9	191
13	Optical spectral broadening and supercontinuum generation in telecom applications. Optical Fiber Technology, 2006, 12, 122-147.	1.4	188
14	The laminar-turbulent transition in a fibre laser. Nature Photonics, 2013, 7, 783-786.	15.6	177
15	Ultralong Raman Fiber Lasers as Virtually Lossless Optical Media. Physical Review Letters, 2006, 96, 023902.	2.9	159
16	All-fiber passively mode-locked Tm-doped NOLM-based oscillator operating at 2- μ m in both soliton and noisy-pulse regimes. Optics Express, 2014, 22, 7875.	1.7	157
17	Energy Localization in Nonlinear Fiber Arrays: Collapse-Effect Compressor. Physical Review Letters, 1995, 75, 73-76.	2.9	153
18	Multidimensional solitons in fiber arrays. Optics Letters, 1994, 19, 329.	1.7	138

#	ARTICLE	IF	CITATIONS
19	Raman fiber lasers with a random distributed feedback based on Rayleigh scattering. <i>Physical Review A</i> , 2010, 82, .	1.0	135
20	Real-time observation of dissipative soliton formation in nonlinear polarization rotation mode-locked fibre lasers. <i>Communications Physics</i> , 2018, 1, .	2.0	132
21	Information Capacity of Optical Fiber Channels with Zero Average Dispersion. <i>Physical Review Letters</i> , 2003, 91, 203901.	2.9	128
22	Effect of Rayleigh-scattering distributed feedback on multiwavelength Raman fiber laser generation. <i>Optics Letters</i> , 2011, 36, 130.	1.7	125
23	Vector dark solitons. <i>Optics Letters</i> , 1993, 18, 337.	1.7	123
24	Nonlinear Inverse Synthesis and Eigenvalue Division Multiplexing in Optical Fiber Channels. <i>Physical Review Letters</i> , 2014, 113, 013901.	2.9	122
25	Nonlinear inverse synthesis for high spectral efficiency transmission in optical fibers. <i>Optics Express</i> , 2014, 22, 26720.	1.7	119
26	Stochasticity, periodicity and localized light structures in partially mode-locked fibre lasers. <i>Nature Communications</i> , 2015, 6, 7004.	5.8	116
27	Polarisation Dynamics of Vector Soliton Molecules in Mode Locked Fibre Laser. <i>Scientific Reports</i> , 2013, 3, 3154.	1.6	114
28	Wave kinetics of random fibre lasers. <i>Nature Communications</i> , 2015, 6, 6214.	5.8	112
29	Stability of Discrete Solitons and Quasicollapse to Intrinsically Localized Modes. <i>Physical Review Letters</i> , 1994, 73, 1055-1059.	2.9	111
30	Carbon nanotubes for ultrafast fibre lasers. <i>Nanophotonics</i> , 2017, 6, 1-30.	2.9	107
31	Optical pulse dynamics in fiber links with dispersion compensation. <i>Optics Communications</i> , 1997, 134, 317-329.	1.0	103
32	Cascaded random distributed feedback Raman fiber laser operating at 12 μ m. <i>Optics Express</i> , 2011, 19, 18486.	1.7	98
33	Doubling of optical signals using triangular pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 1492.	0.9	93
34	Capacity estimates for optical transmission based on the nonlinear Fourier transform. <i>Nature Communications</i> , 2016, 7, 12710.	5.8	92
35	4 Tb/s Transmission Reach Enhancement Using 10 μ m – 400 Gb/s Super-Channels and Polarization Insensitive Dual Band Optical Phase Conjugation. <i>Journal of Lightwave Technology</i> , 2016, 34, 1717-1723.	2.7	89
36	Performance Versus Complexity Study of Neural Network Equalizers in Coherent Optical Systems. <i>Journal of Lightwave Technology</i> , 2021, 39, 6085-6096.	2.7	89

#	ARTICLE	IF	CITATIONS
37	Modeling of CW Yb-doped fiber lasers with highly nonlinear cavity dynamics. Optics Express, 2011, 19, 8394.	1.7	88
38	Nonlinear inverse synthesis technique for optical links with lumped amplification. Optics Express, 2015, 23, 8317.	1.7	88
39	Passive Nonlinear Pulse Shaping in Normally Dispersive Fiber Systems. IEEE Journal of Quantum Electronics, 2008, 44, 1196-1203.	1.0	86
40	270-km Ultralong Raman Fiber Laser. Physical Review Letters, 2009, 103, 133901.	2.9	82
41	Breathing solitons in optical fiber links. JETP Letters, 1996, 63, 861-866.	0.4	80
42	Sparse identification for nonlinear optical communication systems: SINO method. Optics Express, 2016, 24, 30433.	1.7	80
43	Asymptotic breathing pulse in optical transmission systems with dispersion compensation. Physical Review E, 1997, 55, 3624-3633.	0.8	79
44	Dispersion-managed solitons in optical amplifier transmission systems with zero average dispersion. Optics Letters, 1998, 23, 682.	1.7	79
45	Generation of 1.7- μ s pulses at 1.55 μ m by a self-mode-locked all-fiber laser with a kilometers-long linear-ringcavity. Laser Physics Letters, 2010, 7, 661-665.	0.6	79
46	Spiral attractor created by vector solitons. Light: Science and Applications, 2014, 3, e131-e131.	7.7	78
47	Variational approach to optical pulse propagation in dispersion compensated transmission systems. Optics Communications, 1998, 151, 117-135.	1.0	76
48	Physics and mathematics of dispersion-managed optical solitons. Comptes Rendus Physique, 2003, 4, 145-161.	0.3	75
49	Spectrum-, pulsewidth-, and wavelength-switchable all-fiber mode-locked Yb laser with fiber based birefringent filter. Optics Express, 2012, 20, 17797.	1.7	75
50	Dual-wavelength, ultralong Raman laser with Rayleigh-scattering feedback. Optics Letters, 2010, 35, 1100.	1.7	74
51	Stabilizing effects of dispersion management. Physica D: Nonlinear Phenomena, 2001, 152-153, 794-817.	1.3	71
52	Simultaneous Spatial and Spectral Transparency in Ultralong Fiber Lasers. Physical Review Letters, 2008, 101, 123903.	2.9	71
53	Turbulent broadening of optical spectra in ultralong Raman fiber lasers. Physical Review A, 2008, 77, .	1.0	70
54	Hydrodynamic 2D Turbulence and Spatial Beam Condensation in Multimode Optical Fibers. Physical Review Letters, 2019, 122, 103902.	2.9	68

#	ARTICLE	IF	CITATIONS
55	Theory of parabolic pulse generation in tapered fiber. Optics Letters, 2007, 32, 331.	1.7	67
56	Bound state vector solitons with locked and precessing states of polarization. Optics Express, 2013, 21, 26868.	1.7	66
57	Nonlinear spectral management: Linearization of the lossless fiber channel. Optics Express, 2013, 21, 24344.	1.7	65
58	Digital signal processing based on inverse scattering transform. Optics Letters, 2013, 38, 4186.	1.7	65
59	Regeneration limit of classical Shannon capacity. Nature Communications, 2014, 5, 3861.	5.8	64
60	Inverse four-wave mixing and self-parametric amplification in optical fibre. Nature Photonics, 2015, 9, 608-614.	15.6	64
61	Statistics of soliton-bearing systems with additive noise. Physical Review E, 2001, 63, 025601.	0.8	63
62	Experimental and theoretical study of longitudinal power distribution in a random DFB fiber laser. Optics Express, 2012, 20, 11178.	1.7	63
63	Mode-locking via dissipative Faraday instability. Nature Communications, 2016, 7, 12441.	5.8	62
64	Passively harmonic mode locked erbium doped fiber soliton laser with carbon nanotubes based saturable absorber. Optical Materials Express, 2012, 2, 884.	1.6	59
65	Self-Similar Parabolic Optical Solitary Waves. Theoretical and Mathematical Physics(Russian) Tj ETQq1 1 0.784314 6.3 BT /Overlock 10 58	0.8	58
66	Dissipative dispersion-managed solitons in mode-locked lasers. Optics Letters, 2009, 34, 3286.	1.7	57
67	Exceeding the Nonlinear-Shannon Limit using Raman Laser Based Amplification and Optical Phase Conjugation. , 2014, , .		57
68	Bismuth doped fibre amplifier operating in E- and S- optical bands. Optical Materials Express, 2021, 11, 127.	1.6	56
69	Dispersion-Managed Solitons and Optimization of the Dispersion Management. Optical Fiber Technology, 1998, 4, 384-452.	1.4	55
70	Demonstration of Nonlinear Inverse Synthesis Transmission Over Transoceanic Distances. Journal of Lightwave Technology, 2016, 34, 2459-2466.	2.7	54
71	Optical rogue waves in telecommunication data streams. Physical Review A, 2011, 83, .	1.0	53
72	Vector solitons with locked and precessing states of polarization. Optics Express, 2012, 20, 27434.	1.7	53

#	ARTICLE	IF	CITATIONS
73	Nonlinear pulse combining and pulse compression in multi-core fibers. <i>Optics Letters</i> , 2015, 40, 721.	1.7	53
74	Soliton and collapse regimes of pulse generation in passively mode-locking laser systems. <i>Optics Letters</i> , 1995, 20, 398.	1.7	52
75	Average dynamics of the optical soliton in communication lines with dispersion management: Analytical results. <i>Physical Review E</i> , 1998, 58, R48-R51.	0.8	52
76	Evolution and stability of pulse regimes in SESAM-mode-locked femtosecond fiber lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 346.	0.9	51
77	Dissipative solitons in fiber lasers. <i>Physics-Uspexhi</i> , 2016, 59, 642-668.	0.8	51
78	Fast mode decomposition in few-mode fibers. <i>Nature Communications</i> , 2020, 11, 5507.	5.8	51
79	Optical turbulence and spectral condensate in long-fiber lasers. <i>Physical Review A</i> , 2009, 80, .	1.0	50
80	Generation of triangular-shaped optical pulses in normally dispersive fibre. <i>Journal of Optics (United Kingdom)</i> , 2009, 12, 033902.	1.0	50
81	Variational Approach to the Design of Optical Communication Systems with Dispersion Management. <i>Optical Fiber Technology</i> , 1998, 4, 151-188.	1.4	49
82	Laser Beam Self-Focusing in the Atmosphere. <i>Physical Review Letters</i> , 2009, 102, 233902.	2.9	49
83	Nonstable solitons and sharp criteria for wave collapse. <i>Physical Review E</i> , 1993, 47, R13-R16.	0.8	48
84	Theory of guiding-center breathing soliton propagation in optical communication systems with strong dispersion management. <i>Optics Letters</i> , 1997, 22, 1544.	1.7	48
85	Electron cavitation and relativistic self-focusing in underdense plasma. <i>Physical Review E</i> , 1998, 57, 7122-7125.	0.8	48
86	Nonlinear loop mirror-based all-optical signal processing in fiber-optic communications. <i>Optical Fiber Technology</i> , 2008, 14, 299-316.	1.4	48
87	Unveiling Temporal Correlations Characteristic of a Phase Transition in the Output Intensity of a Fiber Laser. <i>Physical Review Letters</i> , 2016, 116, 033902.	2.9	48
88	Graphene based widely-tunable and singly-polarized pulse generation with random fiber lasers. <i>Scientific Reports</i> , 2016, 5, 18526.	1.6	48
89	Symmetrical dispersion compensation for standard monomode-fiber-based communication systems with large amplifier spacing. <i>Optics Letters</i> , 1997, 22, 982.	1.7	47
90	Analytic criterion for soliton instability in a nonlinear fiber array. <i>Physical Review E</i> , 1995, 52, 5549-5554.	0.8	46

#	ARTICLE	IF	CITATIONS
91	Advanced Convolutional Neural Networks for Nonlinearity Mitigation in Long-Haul WDM Transmission Systems. <i>Journal of Lightwave Technology</i> , 2021, 39, 2397-2406.	2.7	46
92	Theory of average pulse propagation in high-bit-rate optical transmission systems with strong dispersion management. <i>JETP Letters</i> , 1997, 65, 845-851.	0.4	44
93	Numerical modeling of fiber lasers with long and ultra-long ring cavity. <i>Optics Express</i> , 2013, 21, 12942.	1.7	44
94	Mode-locked fiber lasers with significant variability of generation regimes. <i>Optical Fiber Technology</i> , 2014, 20, 615-620.	1.4	44
95	Reduced-power optical solitons in fiber lines with short-scale dispersion management. <i>Optics Letters</i> , 1999, 24, 869.	1.7	43
96	Sub-100 fs mode-locked erbium-doped fiber laser using a 45°-tilted fiber grating. <i>Optics Express</i> , 2013, 21, 28297.	1.7	43
97	Nonlinear solitary waves with Gaussian tails. <i>Physica D: Nonlinear Phenomena</i> , 1999, 128, 273-295.	1.3	42
98	Periodic nonlinear Fourier transform for fiber-optic communications, Part I: theory and numerical methods. <i>Optics Express</i> , 2016, 24, 18353.	1.7	42
99	Dynamics of self-similar dispersion-managed soliton presented in the basis of chirped Gauss-Hermite functions. <i>JETP Letters</i> , 1998, 67, 640-646.	0.4	41
100	Combining nonlinear Fourier transform and neural network-based processing in optical communications. <i>Optics Letters</i> , 2020, 45, 3462.	1.7	41
101	Optimal dispersion maps for wavelength-division-multiplexed soliton transmission. <i>Optics Letters</i> , 1998, 23, 597.	1.7	40
102	Machine Learning Methods for Control of Fibre Lasers with Double Gain Nonlinear Loop Mirror. <i>Scientific Reports</i> , 2019, 9, 2916.	1.6	40
103	Nonlinear Fourier Transform for Analysis of Coherent Structures in Dissipative Systems. <i>Physical Review Letters</i> , 2019, 122, 153901.	2.9	40
104	Pattern Generation by Dissipative Parametric Instability. <i>Physical Review Letters</i> , 2016, 116, 028701.	2.9	39
105	Analysis of laser radiation using the Nonlinear Fourier transform. <i>Nature Communications</i> , 2019, 10, 5663.	5.8	39
106	Fiber echo state network analogue for high-bandwidth dual-quadrature signal processing. <i>Optics Express</i> , 2019, 27, 2387.	1.7	39
107	Self-similar core and oscillatory tails of a path-averaged chirped dispersion-managed optical pulse. <i>Optics Letters</i> , 1998, 23, 1351.	1.7	38
108	Optical frequency conversion, pulse compression and signal copying using triangular pulses. , 2008, , .		38

#	ARTICLE	IF	CITATIONS
109	Complex-Valued Neural Network Design for Mitigation of Signal Distortions in Optical Links. Journal of Lightwave Technology, 2021, 39, 1696-1705.	2.7	38
110	All-optical TDM to WDM signal conversion and partial regeneration using XPM with triangular pulses. , 2008, , .		37
111	Gamma-shaped long-cavity normal-dispersion mode-locked Er-fiber laser for sub-nanosecond high-energy pulsed generation. Laser Physics Letters, 2012, 9, 59-67.	0.6	37
112	Blow-up in the Boussinesq equation. Physical Review E, 1993, 47, R796-R799.	0.8	36
113	Impact of nonlinear spectral broadening in ultra-long Raman fibre lasers. Optics Express, 2007, 15, 16690.	1.7	36
114	Amplifier similariton fiber laser with nonlinear spectral compression. Optics Letters, 2012, 37, 4531.	1.7	36
115	Multi-Band Programmable Gain Raman Amplifier. Journal of Lightwave Technology, 2021, 39, 429-438.	2.7	36
116	Demonstration of Phase-Conjugated Subcarrier Coding for Fiber Nonlinearity Compensation in CO-OFDM Transmission. Journal of Lightwave Technology, 2015, 33, 2206-2212.	2.7	35
117	Gain through losses in nonlinear optics. Light: Science and Applications, 2018, 7, 43.	7.7	35
118	Experimental demonstration of mode structure in ultralong Raman fiber lasers. Optics Letters, 2007, 32, 1135.	1.7	34
119	Coherent propagation and energy transfer in low-dimension nonlinear arrays. Physical Review A, 2012, 86, .	1.0	34
120	Neural Networks-Based Equalizers for Coherent Optical Transmission: Caveats and Pitfalls. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-23.	1.9	34
121	Stability of vector solitons in optical fibers. Optics Letters, 1992, 17, 1497.	1.7	33
122	All-optical-switching and pulse amplification and steering in nonlinear fiber arrays. Physica D: Nonlinear Phenomena, 1995, 87, 262-272.	1.3	33
123	All-optical passive 2R regeneration for N \times 40 Gbit/s WDM transmission using NOLM and novel filtering technique. Optics Communications, 2003, 217, 227-232.	1.0	33
124	Secure key distribution over a 500 km long link using a Raman ultra-long fiber laser. Laser and Photonics Reviews, 2014, 8, 436-442.	4.4	33
125	Nonlinear Inverse Synthesis for Optical Links With Distributed Raman Amplification. Journal of Lightwave Technology, 2016, 34, 1778-1786.	2.7	33
126	Light transport and vortex-supported wave-guiding in micro-structured optical fibres. Scientific Reports, 2020, 10, 2507.	1.6	33

#	ARTICLE	IF	CITATIONS
127	Breathing self-similar dynamics and oscillatory tails of the chirped dispersion-managed soliton. <i>Physical Review E</i> , 1998, 58, R1256-R1259.	0.8	32
128	Intracavity dynamics in high-power mode-locked fiber lasers. <i>Physical Review A</i> , 2010, 81, .	1.0	32
129	Modulation instability in high power laser amplifiers. <i>Optics Express</i> , 2010, 18, 1380.	1.7	32
130	Intracavity incoherent supercontinuum dynamics and rogue waves in a broadband dissipative soliton laser. <i>Nature Communications</i> , 2021, 12, 5567.	5.8	32
131	Dynamics of a nonlinear dipole vortex. <i>Physics of Fluids</i> , 1995, 7, 2220-2229.	1.6	31
132	Spatiotemporal optical bullets in two-dimensional fiber arrays and their stability. <i>Physical Review A</i> , 2015, 91, .	1.0	31
133	Pulse propagation in optical fibers near the zero dispersion point. <i>Physical Review E</i> , 1993, 47, R3844-R3847.	0.8	30
134	Dual-pump Raman amplification with increased flatness using modulation instability. <i>Optics Express</i> , 2005, 13, 1079.	1.7	30
135	Experiments on the generation of parabolic pulses in fibers with length-varying normal chromatic dispersion. <i>JETP Letters</i> , 2007, 85, 319-322.	0.4	30
136	Extremely short-length surface plasmon resonance devices. <i>Optics Express</i> , 2008, 16, 20227.	1.7	29
137	Nonlinear communication channels with capacity above the linear Shannon limit. <i>Optics Letters</i> , 2012, 37, 3600.	1.7	29
138	Polarization-multiplexed nonlinear inverse synthesis with standard and reduced-complexity NFT processing. <i>Optics Express</i> , 2018, 26, 17360.	1.7	29
139	Convolutional long short-term memory neural network equalizer for nonlinear Fourier transform-based optical transmission systems. <i>Optics Express</i> , 2021, 29, 11254.	1.7	29
140	Fokker-Planck equation approach to the description of soliton statistics in optical fiber transmission systems. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 743.	0.9	28
141	Lagrangian and Eulerian descriptions of inertial particles in random flows. <i>Journal of Turbulence</i> , 2007, 8, N16.	0.5	28
142	Stable optical vortices in nonlinear multicore fibers. <i>Light: Science and Applications</i> , 2015, 4, e314-e314.	7.7	28
143	New Approaches to Coding Information using Inverse Scattering Transform. <i>Physical Review Letters</i> , 2017, 118, 223901.	2.9	28
144	Real-time observation of the optical Sagnac effect in ultrafast bidirectional fibre lasers. <i>APL Photonics</i> , 2020, 5, 016104.	3.0	28

#	ARTICLE	IF	CITATIONS
145	Transfer Learning for Neural Networks-Based Equalizers in Coherent Optical Systems. <i>Journal of Lightwave Technology</i> , 2021, 39, 6733-6745.	2.7	27
146	Study of the operating regime for all-optical passive 2R regeneration of dispersion-managed RZ data at 40 Gb/s using in-line NOLMs. <i>IEEE Photonics Technology Letters</i> , 2002, 14, 30-32.	1.3	26
147	Power-controlled phase-matching and instability of CW propagation in multicore optical fibers with a central core. <i>Optics Letters</i> , 2013, 38, 4232.	1.7	26
148	Regenerative Fourier transformation for dual-quadrature regeneration of multilevel rectangular QAM. <i>Optics Letters</i> , 2015, 40, 3117.	1.7	26
149	Nonlinear combining and compression in multicore fibers. <i>Physical Review A</i> , 2016, 94, .	1.0	26
150	Machine learning-based pulse characterization in figure-eight mode-locked lasers. <i>Optics Letters</i> , 2019, 44, 3410.	1.7	26
151	Non-Gaussian statistics of an optical soliton in the presence of amplified spontaneous emission. <i>Optics Letters</i> , 2003, 28, 2097.	1.7	25
152	Sub-critical regime of femtosecond inscription. <i>Optics Express</i> , 2007, 15, 14750.	1.7	25
153	Optical turbulence and spectral condensate in long fibre lasers. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 2496-2508.	1.0	25
154	Periodic nonlinear Fourier transform for fiber-optic communications, Part II: eigenvalue communication. <i>Optics Express</i> , 2016, 24, 18370.	1.7	25
155	Numerical investigation of the impact of reflectors on spectral performance of Raman fibre laser. <i>Optics Express</i> , 2010, 18, 4469.	1.7	24
156	Compensation of Nonlinear Impairments Using Inverse Perturbation Theory With Reduced Complexity. <i>Journal of Lightwave Technology</i> , 2020, 38, 1250-1257.	2.7	24
157	Bit Error Rate Estimation Methods for QPSK CO-OFDM Transmission. <i>Journal of Lightwave Technology</i> , 2014, 32, 2951-2959.	2.7	23
158	Nonlinear multicore waveguiding structures with balanced gain and loss. <i>Physical Review A</i> , 2015, 91, .	1.0	23
159	Contour integrals for numerical computation of discrete eigenvalues in the Zakharov-Shabat problem. <i>Optics Letters</i> , 2018, 43, 3690.	1.7	23
160	Soliton-based discriminator of noncoherent optical pulses. <i>Physical Review A</i> , 2008, 78, .	1.0	22
161	Polarization insensitive in-fiber mode-locker based on carbon nanotube with N-methyl-2-pyrrolidone solvent filled fiber microchamber. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	22
162	On the Design of NFT-Based Communication Systems With Lumped Amplification. <i>Journal of Lightwave Technology</i> , 2017, 35, 5464-5472.	2.7	22

#	ARTICLE	IF	CITATIONS
163	Spatiotemporal pulse collapse on periodic potentials. <i>Physical Review E</i> , 1994, 49, R2536-R2539.	0.8	21
164	Autosoliton transmission in dispersion-managed systems guided by in-line nonlinear optical loop mirrors. <i>Optics Letters</i> , 2000, 25, 1240.	1.7	21
165	Reduction of nonlinear intrachannel effects by channel asymmetry in transmission lines with strong bit overlapping. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 1473-1475.	1.3	21
166	Non-Gaussian error probability in optical soliton transmission. <i>Physica D: Nonlinear Phenomena</i> , 2004, 195, 1-28.	1.3	21
167	Information-Theory Analysis of Skewed Coding for Suppression of Pattern-Dependent Errors in Digital Communications. <i>IEEE Transactions on Communications</i> , 2007, 55, 237-241.	4.9	21
168	Random Distributed Feedback Fiber Laser. <i>Optics and Photonics News</i> , 2010, 21, 33.	0.4	21
169	Intermediate asymptotics in nonlinear optical systems. <i>Physical Review A</i> , 2012, 85, .	1.0	21
170	Generation of dissipative solitons in an actively mode-locked ultralong fibre laser. <i>Quantum Electronics</i> , 2013, 43, 95-98.	0.3	21
171	Light self-focusing in the atmosphere: thin window model. <i>Scientific Reports</i> , 2016, 6, 30697.	1.6	21
172	Gain-through-filtering enables tuneable frequency comb generation in passive optical resonators. <i>Nature Communications</i> , 2019, 10, 4489.	5.8	21
173	Theory of energy evolution in laser resonators with saturated gain and non-saturated loss. <i>Optics Express</i> , 2009, 17, 11898.	1.7	20
174	Conditional Probability Calculations for the Nonlinear Schrödinger Equation with Additive Noise. <i>Physical Review Letters</i> , 2014, 113, 230602.	2.9	20
175	Enhanced power breathing soliton in communication systems with dispersion management. <i>Physical Review E</i> , 1997, 56, R4951-R4954.	0.8	19
176	Generalized momentum method to describe high-frequency solitary wave propagation in systems with varying dispersion. <i>Physical Review E</i> , 1998, 58, R5264-R5267.	0.8	19
177	Dispersion-managed soliton in fiber links with in-line filtering presented in the basis of chirped Gauss-Hermite functions. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 1321.	0.9	19
178	Inverse design of mode-locked fiber laser by particle swarm optimization algorithm. <i>Scientific Reports</i> , 2021, 11, 13555.	1.6	19
179	Nonlinear Fourier transform for characterization of the coherent structures in optical microresonators. <i>Optics Letters</i> , 2020, 45, 3059.	1.7	19
180	Chirped solitons with strong confinement in transmission links with in-line fiber Bragg gratings. <i>Optics Letters</i> , 1998, 23, 600.	1.7	18

#	ARTICLE	IF	CITATIONS
181	Discrete localized states and localization dynamics in discrete nonlinear Schrödinger equations. <i>Physica Scripta</i> , 1996, T67, 160-166.	1.2	17
182	Generalized root-mean-square momentum method to describe chirped return-to-zero signal propagation in dispersion-managed fiber links. <i>IEEE Photonics Technology Letters</i> , 1999, 11, 203-205.	1.3	17
183	Symmetries, chirp-free points, and bistability in dispersion-managed fiber lines. <i>Optics Letters</i> , 1999, 24, 1871.	1.7	17
184	Ground states of dispersion-managed nonlinear Schrödinger equation. <i>Physical Review E</i> , 2000, 62, 7358-7364.	0.8	17
185	Time domain all-optical signal processing at a RZ optical receiver. <i>Optics Express</i> , 2005, 13, 6217.	1.7	17
186	Random walks and random numbers from supercontinuum generation. <i>Optics Express</i> , 2012, 20, 11143.	1.7	17
187	Adiabatic Soliton Laser. <i>Physical Review Letters</i> , 2015, 114, 113901.	2.9	17
188	RIN Mitigation and Transmission Performance Enhancement With Forward Broadband Pump. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 254-257.	1.3	17
189	Wave collapse and optical-pulse compression. <i>Physical Review A</i> , 1993, 47, R27-R29.	1.0	16
190	Stability of an optical soliton with Gaussian tails. <i>Physical Review E</i> , 1997, 56, R3784-R3787.	0.8	16
191	Hamiltonian averaging and integrability in nonlinear systems with periodically varying dispersion. <i>JETP Letters</i> , 1999, 69, 499-504.	0.4	16
192	Averaged model and integrable limits in nonlinear double-periodic Hamiltonian systems. <i>Physical Review E</i> , 2000, 61, 3127-3132.	0.8	16
193	Optimal span length in high-speed transmission systems with hybrid Raman-erbium-doped fiber amplification. <i>Optics Letters</i> , 2005, 30, 23.	1.7	16
194	Digital backpropagation in the nonlinear Fourier domain. , 2015, , .		16
195	Ripple distribution for nonlinear fiber-optic channels. <i>Optics Express</i> , 2017, 25, 2228.	1.7	15
196	Capacity Lower Bounds of the Noncentral Chi-Channel With Applications to Soliton Amplitude Modulation. <i>IEEE Transactions on Communications</i> , 2018, 66, 2978-2993.	4.9	15
197	Signal Modulation and Processing in Nonlinear Fibre Channels by Employing the Riemann-Hilbert Problem. <i>Journal of Lightwave Technology</i> , 2018, 36, 5714-5727.	2.7	15
198	Optical Pulse Compression Using Fiber Arrays. <i>Optical Fiber Technology</i> , 1995, 1, 244-246.	1.4	14

#	ARTICLE	IF	CITATIONS
199	Hamiltonian averaging in soliton-bearing systems with a periodically varying dispersion. <i>Physical Review E</i> , 1999, 59, 3843-3846.	0.8	14
200	Novel approaches to numerical modeling of periodic dispersion-managed fiber communication systems. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2000, 6, 263-275.	1.9	14
201	Conversion of a chirped Gaussian pulse to a soliton or a bound multisoliton state in quasi-lossless and lossy optical fiber spans. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 1254.	0.9	14
202	Weakly-Constrained Codes for Suppression of Patterning Effects in Digital Communications. <i>IEEE Transactions on Communications</i> , 2010, 58, 2845-2854.	4.9	14
203	Optimization of cascaded regenerative links based on phase sensitive amplifiers. <i>Optics Letters</i> , 2013, 38, 4378.	1.7	14
204	Intensity-only-measurement mode decomposition in few-mode fibers. <i>Optics Express</i> , 2021, 29, 36769.	1.7	14
205	Deep reinforcement learning for self-tuning laser source of dissipative solitons. <i>Scientific Reports</i> , 2022, 12, 7185.	1.6	14
206	Soliton stability in optical transmission lines using semiconductor amplifiers and fast saturable absorbers. <i>Physical Review E</i> , 1996, 54, R3125-R3128.	0.8	13
207	All-optical signal regeneration by temporal slicing of nonlinearly flattened optical waveform. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 1235-1237.	1.3	13
208	Dispersion-dominated nonlinear fiber-optic channel. <i>Optics Letters</i> , 2012, 37, 2931.	1.7	13
209	Multi-scale polarisation phenomena. <i>Light: Science and Applications</i> , 2016, 5, e16011-e16011.	7.7	13
210	On the theory of chirped optical solitons in fiber lines with varying dispersion. <i>JETP Letters</i> , 1998, 68, 830-836.	0.4	12
211	Reduction of the four wave mixing in optically amplified links by reducing pulse overlapping. <i>Optics Communications</i> , 2000, 181, 407-411.	1.0	12
212	Statistics of interacting optical solitons. <i>Physical Review E</i> , 2001, 64, 067602.	0.8	12
213	All-optical passive quasi-regeneration in transoceanic 40 Gbit/s return-to-zero transmission systems with strong dispersion management. <i>Optics Communications</i> , 2002, 205, 277-280.	1.0	12
214	Performance analysis of 20Gb/s RZ-DPSK non-slope matched transoceanic submarine links. <i>Optics Express</i> , 2007, 15, 10999.	1.7	12
215	Impact of the Order of Cavity Elements in All-Normal Dispersion Ring Fiber Lasers. <i>IEEE Photonics Journal</i> , 2015, 7, 1-7.	1.0	12
216	Nonlinear Spectrum of Conventional OFDM and WDM Return-to-Zero Signals in Nonlinear Channel. <i>Journal of Lightwave Technology</i> , 2020, 38, 352-358.	2.7	12

#	ARTICLE	IF	CITATIONS
217	On self-focusing of laser beams in plasma. <i>Laser and Particle Beams</i> , 1987, 5, 3-14.	0.4	11
218	Optical double layers. <i>Physical Review A</i> , 1993, 47, R3502-R3505.	1.0	11
219	The multiple-scale averaging and dynamics of dispersion-managed optical solitons. <i>Journal of Engineering Mathematics</i> , 1999, 36, 163-184.	0.6	11
220	Lie-transform averaging in nonlinear optical transmission systems with strong and rapid periodic dispersion variations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 265, 274-281.	0.9	11
221	All-Optical Nonlinear Pulse Processing Based on Normal Dispersion Fiber-Enhanced Nonlinear Optical Loop Mirror. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 1912-1914.	1.3	11
222	Robustness of 40 Gb/s ASK modulation formats in the practical system infrastructure. <i>Optics Express</i> , 2006, 14, 12049.	1.7	11
223	Simple design method for gain-flattened three-pump Raman amplifiers. <i>Optical and Quantum Electronics</i> , 2007, 39, 213-220.	1.5	11
224	On the theory of the modulation instability in optical fiber amplifiers. <i>Optics Letters</i> , 2010, 35, 2684.	1.7	11
225	Temporal Solitonic Crystals and Non-Hermitian Informational Lattices. <i>Physical Review Letters</i> , 2012, 108, 183902.	2.9	11
226	Timing and phase jitter suppression in coherent soliton transmission. <i>Optics Letters</i> , 2014, 39, 6308.	1.7	11
227	Performance analysis of dual-pump nonlinear amplifying loop mirror mode-locked all-fibre laser. <i>Laser Physics Letters</i> , 2019, 16, 065105.	0.6	11
228	Nonlinear Fourier transform for analysis of optical spectral combs. <i>Physical Review E</i> , 2021, 103, L020202.	0.8	11
229	Optical Wave Turbulence. <i>World Scientific Series on Nonlinear Science, Series A</i> , 2013, , 113-163.	0.0	11
230	Optical vortices in waveguides with discrete and continuous rotational symmetry. <i>Journal of the European Optical Society-Rapid Publications</i> , 2021, 17, .	0.9	11
231	Solitary waves in nonlinear dispersive systems with zero average dispersion. <i>Physical Review E</i> , 1998, 58, R44-R47.	0.8	10
232	Impact of the Fiber Type and Dispersion Management on the Performance of an NRZ 16 \times 40 Gb/s DWDM Transmission System. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 2362-2364.	1.3	10
233	Bit error rate improvement by nonlinear optical decision element. <i>Optics Letters</i> , 2006, 31, 1205.	1.7	10
234	Mode-locking in 25-km fibre laser. , 2010, , .		10

#	ARTICLE	IF	CITATIONS
235	Random distributed feedback Raman fiber laser operating in a 1.2 μ m wavelength range. <i>Laser Physics</i> , 2011, 21, 1525-1529.	0.6	10
236	Optimal packing for cascaded regenerative transmission based on phase sensitive amplifiers. <i>Optics Express</i> , 2013, 21, 31201.	1.7	10
237	A lower bound on the per soliton capacity of the nonlinear optical fibre channel. , 2015, , .		10
238	Calculation of mutual information for nonlinear communication channel at large signal-to-noise ratio. <i>Physical Review E</i> , 2016, 94, 042203.	0.8	10
239	Experimental implementation of a neural network optical channel equalizer in restricted hardware using pruning and quantization. <i>Scientific Reports</i> , 2022, 12, .	1.6	10
240	Average envelope soliton dynamics in systems with periodically varying dispersion. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 204, 269-273.	0.9	9
241	Improvement of optical fibre systems performance by optimisation of receiver filter bandwidth and use of numerical methods to evaluate Q-factor. <i>Electronics Letters</i> , 1999, 35, 2131.	0.5	9
242	Different generation regimes of mode-locked all-positive-dispersion all-fiber Yb laser. , 2010, , .		9
243	Phase-conjugated pilots for fibre nonlinearity compensation in CO-OFDM transmission. , 2014, , .		9
244	Phase-conjugated subcarrier coding for fibre nonlinearity mitigation in CO-OFDM transmission. , 2014, , .		9
245	Bandwidth Programmable Optical Nyquist Pulse Generation in Passively Mode-Locked Fiber Laser. <i>IEEE Photonics Journal</i> , 2015, 7, 1-9.	1.0	9
246	Log-log growth of channel capacity for nondispersive nonlinear optical fiber channel in intermediate power range. <i>Physical Review E</i> , 2017, 95, 062133.	0.8	9
247	Alternation of the Mode Synchronization and Desynchronization in Ultrafast Fiber Laser. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900219.	4.4	9
248	Domain Adaptation: the Key Enabler of Neural Network Equalizers in Coherent Optical Systems. , 2022, , .		9
249	Collapse criterion for pulse dynamics in a periodic nonlinear waveguide. <i>Optics Letters</i> , 1993, 18, 1493.	1.7	8
250	Multi-level optimization of a fiber transmission system via nonlinearity management. <i>Optics Express</i> , 2006, 14, 8065.	1.7	8
251	Multicanonical Monte Carlo modelling of BER penalty in transmission systems with optical regeneration. <i>Optics Communications</i> , 2006, 262, 246-249.	1.0	8
252	Multiple-period dispersion-managed solitons. <i>Physical Review A</i> , 2007, 76, .	1.0	8

#	ARTICLE	IF	CITATIONS
253	Design and Fabrication of Fiber Bragg Gratings With V-Shaped Dispersion Profile. Journal of Lightwave Technology, 2007, 25, 606-611.	2.7	8
254	Evolution of non-uniformly seeded warm clouds in idealized turbulent conditions. New Journal of Physics, 2008, 10, 075019.	1.2	8
255	Coherent soliton communication lines. Journal of Experimental and Theoretical Physics, 2014, 119, 787-794.	0.2	8
256	Modified nonlinear inverse synthesis for optical links with distributed Raman amplification. , 2015, , .		8
257	Optical communication based on the periodic nonlinear Fourier transform signal processing. , 2016, , .		8
258	Soliton-sinc optical pulses. Optics Letters, 2020, 45, 5352.	1.7	8
259	The dispersion-managed soliton as a ground state of a macroscopic nonlinear quantum oscillator. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 273-282.	1.0	7
260	Optical 2R regeneration at 40 Gbit/s using saturable absorber in long-haul dispersion-managed fiber links. Optics Communications, 2004, 232, 145-149.	1.0	7
261	Mitigation of patterning effects at 40 Gbits/s by skewed channel pre-encoding. Journal of Optical Networking, 2007, 6, 984.	2.5	7
262	Comparative Analysis of BER Estimation Methods in Numerical Simulation of 40-Gb/s RZ-DPSK Transmission With In-Line SOAs. IEEE Photonics Technology Letters, 2007, 19, 607-609.	1.3	7
263	Hybrid gain-flattened and reduced power excursion scheme for distributed Raman amplification. Optics Express, 2013, 21, 29140.	1.7	7
264	Capacity-achieving techniques in nonlinear channels. , 2014, , .		7
265	New class of solitons in fiber waveguides near the zero-dispersion point. Soviet Journal of Quantum Electronics, 1991, 21, 555-557.	0.1	6
266	On the robustness of optical solitons in the presence of periodic amplification. Journal of Optics, 1995, 4, 281-293.	0.5	6
267	Reduction of the phase jitter in differential phase-shift-keying soliton transmission systems by in-line Butterworth filters. Optics Letters, 2004, 29, 35.	1.7	6
268	Study of new modulation data-transmission formats for dispersion-controlled high-bit-rate fiberoptic communication lines. Quantum Electronics, 2007, 37, 885-890.	0.3	6
269	Topology-driven nonlinear switching in Möbius discrete arrays. Physical Review A, 2017, 95, .	1.0	6
270	Dispersion-Managed Solitons. , 1999, , 91-115.		6

#	ARTICLE	IF	CITATIONS
271	Tailoring of spatial coherence in a multimode fiber by selectively exciting groups of eigenmodes. <i>Optics Express</i> , 2020, 28, 20587.	1.7	6
272	Neural networks for computing and denoising the continuous nonlinear Fourier spectrum in focusing nonlinear Schrödinger equation. <i>Scientific Reports</i> , 2021, 11, 22857.	1.6	6
273	Design of Survivable Metro-Aggregation Networks based on Digital Subcarrier Routing. , 2021, , .		6
274	Solitons with Gaussian tails in dispersion-managed communication systems using gratings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 237, 37-42.	0.9	5
275	Localized Waves in Optical Systems with Periodic Dispersion and Nonlinearity Management. <i>Advances in Nonlinear Optics</i> , 2009, 2009, 1-13.	0.6	5
276	Raman laser based on a fiber with variable mode structure. <i>Laser Physics</i> , 2011, 21, 290-293.	0.6	5
277	Nonlinear pulse shaping and polarization dynamics in mode-locked fiber lasers. <i>International Journal of Modern Physics B</i> , 2014, 28, 1442011.	1.0	5
278	Delay-differential-equation model for mode-locked lasers based on nonlinear optical and amplifying loop mirrors. <i>Physical Review A</i> , 2021, 104, .	1.0	5
279	First Experimental Demonstration of Nonlinear Inverse Synthesis Transmission over Transoceanic Distances. , 2016, , .		5
280	Passive regeneration in 40 Gbit/s-based WDM dispersion-managed RZ transmission systems by in-line NOLMs. <i>Optical Fiber Technology</i> , 2002, 8, 313-318.	1.4	4
281	Performance Comparison of SSMF and UltraWave Fibers for Ultra-Long-Haul 40-Gb/s WDM Transmission. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1613-1615.	1.3	4
282	Supercontinuum in Telecom Applications. , 2016, , 371-403.		4
283	Experimentally characterized nonlinear fourier transform of a mode-locked fibre laser. , 2017, , .		4
284	Invited Article: Visualisation of extreme value events in optical communications. <i>APL Photonics</i> , 2018, 3, 060801.	3.0	4
285	Full-Spectrum Periodic Nonlinear Fourier Transform Optical Communication Through Solving the Riemann-Hilbert Problem. <i>Journal of Lightwave Technology</i> , 2020, 38, 3602-3615.	2.7	4
286	Nonlinear spectral blueshift in semiconductor optical amplifiers. <i>Optics Letters</i> , 2021, 46, 4757.	1.7	4
287	Adaptive Electrical Signal Post-processing with Varying Representations in Optical Communication Systems. <i>Communications in Computer and Information Science</i> , 2009, , 235-245.	0.4	4
288	Experimental Study of Deep Neural Network Equalizers Performance in Optical Links. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
289	Dispersion-managed solitons and the inverse scattering transform. , 1999, , .		4
290	Generation of high-energy soliton-like pulses in 1.9â€“2.5 Åµm spectral domain. JPhys Photonics, 2020, 2, 044005.	2.2	4
291	Soliton with Gaussian tails as a carrier pulse in optical communication systems with in-line phase modulators. Optics Communications, 1998, 146, 225-230.	1.0	3
292	Study of fibreoptic communication links with the optical regeneration of signals. Quantum Electronics, 2005, 35, 169-174.	0.3	3
293	Autosoliton propagation and mapping problem in optical fiber lines with lumped nonlinear devices. Physical Review E, 2005, 72, 016601.	0.8	3
294	High-energy all-fiber all-positive-dispersion mode-locked ring Yb laser with 8 km optical cavity length. , 2009, , .		3
295	Ultra-long raman laser with a feedback based on the Rayleigh scattering. , 2009, , .		3
296	Reply to "Comment on "Optical rogue waves in telecommunication data streams" Physical Review A, 2011, 84, .	1.0	3
297	Broadly tunable high-power random fibre laser. , 2012, , .		3
298	Lattice approach to the dynamics of phase-coded soliton trains. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 025202.	0.7	3
299	Weak Langmuir optical turbulence in a fiber cavity. Physical Review A, 2016, 94, .	1.0	3
300	On Demand Spatial Beam Self-Focusing in Hexagonal Multicore Fiber. IEEE Photonics Journal, 2018, 10, 1-8.	1.0	3
301	Temporal and Spectral Nonlinear Pulse Shaping Methods in Optical Fibers. Springer Series in Optical Sciences, 2015, , 105-128.	0.5	3
302	A Perturbative Analysis of Dispersion-Managed Solitons. Physica Scripta, 2000, 62, 479-485.	1.2	2
303	New data format for fibreoptic dense wavelength-division-multiplexing communication links. Quantum Electronics, 2004, 34, 857-859.	0.3	2
304	Span Design for Reduced Noise and Nonlinear Impairments in a Dispersion-Managed Raman Amplified System. Optical and Quantum Electronics, 2004, 36, 725-732.	1.5	2
305	Optical data transmission using periodic in-line all-optical format conversion. Optics Express, 2004, 12, 4875.	1.7	2
306	Spectral broadening in ultra-long raman fibre lasers by Optical wave turbulence. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
307	Performance comparison of 40 Gb/s ULH transmissions using CSRZ-ASK or CSRZ-DPSK modulation formats on UltraWave fiber TM fiber. Optics Express, 2007, 15, 11142.	1.7	2
308	Lumped dispersion mapping and performance margins in existing SMF-DCF terrestrial links. Journal of Optical Networking, 2008, 7, 106.	2.5	2
309	Passive Nonlinear Pulse Shaping in Normally Dispersive Fiber. , 2008, , .		2
310	Adaptive Pulse Shaping Through BER Feedback. Journal of Lightwave Technology, 2009, 27, 3765-3772.	2.7	2
311	Fibre grating filters for suppression of near infrared OH emission lines. , 2013, , .		2
312	Method for computing the optimal signal distribution and channel capacity. Optics Express, 2015, 23, 15119.	1.7	2
313	Statistical analysis of a communication system based on the periodic nonlinear Fourier transform. , 2016, , .		2
314	Nonlinear Fourier Transform for Optical Data Processing and Transmission: Advances and Perspectives. , 2018, , .		2
315	Correcting Errors in Optical Data Transmission Using Neural Networks. Lecture Notes in Computer Science, 2010, , 448-457.	1.0	2
316	Random Distributed Feedback Fiber Laser. , 2011, , .		2
317	Nonlinear Fourier Based Spectral Filtering. , 2017, , .		2
318	Neural Network-Enhanced Optical Phase Conjugation for Nonlinearity Mitigation. , 2022, , .		2
319	Evolution of Optical Pulses in Fiber Lines with Lumped Nonlinear Devices as a Mapping Problem. Theoretical and Mathematical Physics(Russian Federation), 2005, 144, 1117-1127.	0.3	1
320	Ultra-Long Laser Cavities for Non-Repeated Fibre Transmission. , 2006, , .		1
321	Semi-Analytical Description of Parabolic Pulse Generation in the Normal-Dispersion Fibre Amplifiers. , 2006, , .		1
322	Optical Spectral Broadening and Parabolic Pulse Generation using Tapered Fibre with Normal Dispersion. , 2006, , .		1
323	Performance analysis of 20 Gbit/s RZ-DPSK non-slope matched transoceanic submarine links. , 2007, , .		1
324	Study of high-bit-rate fibreoptic communication lines using the return-to-zero differential phase-shift keying (RZ DPSK) format for information coding. Quantum Electronics, 2007, 37, 584-589.	0.3	1

#	ARTICLE	IF	CITATIONS
325	Migration from Periodic to Lumped Dispersion Mapping in Existing SMF/DCF Links. , 2007, , .		1
326	Bit-Error Probability for Direct Detection of Optical RZ Signal Degraded by ASE Noise and Timing Jitter. Journal of Lightwave Technology, 2007, 25, 638-643.	2.7	1
327	Evolution and stability of pulse regimes in SESAM-mode-locked femtosecond fiber lasers. , 2009, , .		1
328	Effect of Rayleigh-scattering distributed feedback on multiwavelength Raman fiber laser generation. Proceedings of SPIE, 2011, , .	0.8	1
329	Optical turbulence and spectral condensate in fibre lasers. , 2011, , .		1
330	Narrow-band Radiation in the Random Distributed Feedback Fiber Laser. , 2012, , .		1
331	Self-similar parabolic plasmonic beams. Optics Letters, 2013, 38, 428.	1.7	1
332	Polarization Attractors in Harmonic Mode-Locked Fiber Laser With Carbon Nanotubes. , 2014, , .		1
333	Inversed-modified Soliton Generation in Mode-locked Fibre Laser at Normal Dispersion. , 2014, , .		1
334	Nonlinear signal transformations: path to capacity above the linear AWGN Shannon limit. , 2014, , .		1
335	Multiplier-free blind phase noise estimation for CO-OFDM transmission. , 2015, , .		1
336	Optical Information Capacity Processing. Springer Series in Optical Sciences, 2015, , 325-354.	0.5	1
337	Periodic nonlinear Fourier transform based optical communication systems in a band-limited regime. , 2016, , .		1
338	Random Distributed Feedback Raman Fiber Lasers. Springer Series in Optical Sciences, 2017, , 273-354.	0.5	1
339	Resonance optimization of polychromatic light in disordered structures. Scientific Reports, 2017, 7, 8042.	1.6	1
340	All-optical multilevel regeneration in nonlinear optical loop mirror. , 2017, , .		1
341	Convolutional Neural Networks with Multiple Layers per Span for Nonlinearity Mitigation in Long-Haul WDM Transmission Systems. , 2021, , .		1
342	4-channel E-band data transmission over 160 km of SMF-28 using a bismuth-doped fibre amplifier. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
343	Intermittent Self-Pulsing in a Fiber Raman Laser. , 2012, , .		1
344	Nonlinear Waves in Multimode Fibers. , 2018, , 1-55.		1
345	On the theory of adiabatic field dynamics in the Kerr medium with distributed gain and dispersion. Optics Letters, 2019, 44, 1448.	1.7	1
346	Multi-band programmable gain Raman amplifier for high-capacity optical networks. , 2021, , .		1
347	â€œMagicâ€•Dispersion Maps with Distributed Raman Amplification. Theoretical and Mathematical Physics(Russian Federation), 2003, 137, 1652-1662.	0.3	0
348	Simple design of nonuniform fiber Bragg grating with sharp reflection. , 0, , .		0
349	Correlations between optimal temporal width and spectral characteristics of an optical signal in a wavelength-paired CS-RZ transmission with high spectral efficiency. Optics Express, 2004, 12, 4007.	1.7	0
350	Optimization of WDM (Î•Ã— 40 Gbit/s) Transmission in Strong Symmetric Dispersion Maps. Journal of Optical Communications, 2005, 26, .	4.0	0
351	Modelling of Femtosecond Inscription in Fused Silica. , 2006, , .		0
352	<title>On the theory of autosoliton propagation in optical fibers guided by in-line nonlinear devices</title>. , 2006, 6255, 11.		0
353	Patterning Effects in WDM RZ-DBPSK SMF/DCF Optical Transmission at 40 Gbit/s Channel Rate. , 2007, , .		0
354	Mitigation of Patterning Effects at 40 Gb/s by Skewed Channel Pre-Encoding. , 2007, , .		0
355	High Power Parabolic Pulse Generation in Dispersion Decreasing Tapered Fibre. , 2007, , .		0
356	Comparison of BER estimation methods in numerical simulation of 40 Gbit/s RZ-DPSK transmission. , 2007, , .		0
357	Nonlinear diffraction in sub-critical femtosecond inscription. , 2007, , .		0
358	Turbulent Spectral Broadening in Ultra-Long Raman Fibre Lasers. , 2007, , .		0
359	Modes with kHz Scale Spacing in Raman Fibre Lasers with Ultra-Long Cavity. , 2007, , .		0
360	Novel approaches in nonlinear optical fibre-based signal processing. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
361	Recent developments in all-optical nonlinear data processing. , 2008, , .		0
362	Recent developments in all-optical nonlinear data processing. , 2008, , .		0
363	Generation of triangular pulses in normally dispersive fibre. , 2009, , .		0
364	Dispersion and nonlinearity-management in mode-locked fibre lasers. , 2009, , .		0
365	Ultra-long Raman fibre laser transmission links. , 2009, , .		0
366	Efficient weakly-constrained codes for mitigation of patterning effects in Digital Communications. , 2009, , .		0
367	All-optical nonlinear fibre signal processing. , 2009, , .		0
368	Multi-wavelength ultra-long Raman fibre laser based on Rayleigh-scattering feedback. , 2010, , .		0
369	CW lasing in a telecom fibre due to the random distributed feedback via Rayleigh scattering. , 2010, , .		0
370	Lattice approach to the dynamics of the DPSK-encoded soliton trains. , 2010, , .		0
371	Soliton based DPSK encoded sequences: Stability and dynamical properties. , 2010, , .		0
372	On the theory of the modulation instability in optical fiber and laser amplifiers. Proceedings of SPIE, 2011, , .	0.8	0
373	Incoherent fibre supercontinuum generation for all-optical random number generation. , 2011, , .		0
374	Pulse shaping in mode-locked ring-cavity fibre lasers. , 2011, , .		0
375	Activated escape from polarization pulling in fibre Raman Amplifiers. , 2011, , .		0
376	Vector Solitons with Slowly Evolving States of Polarisation. , 2012, , .		0
377	Capacity of dispersion-non-compensated nonlinear fibre channels. , 2012, , .		0
378	New fiber laser architecture with transform-limited nonlinear spectral compression. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
379	From rogue waves to random walks: Nonlinear instabilities in supercontinuum generation. , 2012, , .		0
380	Efficient packing for phase regenerative channels. , 2013, , .		0
381	Design of nonlinear regenerative transmission systems with high capacity. , 2013, , .		0
382	Temporal and statistical properties of the ytterbium doped fiber laser. , 2013, , .		0
383	Nonlinear pulse shaping and polarization dynamics in mode-locked fibre lasers. , 2013, , .		0
384	Long-range, high bit-rate secure key distribution link utilizing Raman Ultra-long fiber laser (UFL). , 2013, , .		0
385	Optimization Method for PSA-based Multi-Level Regenerators. , 2013, , .		0
386	Vector solitons in harmonic mode-locked erbium-doped fiber lasers. , 2014, , .		0
387	Efficiency of regenerative schemes. , 2014, , .		0
388	Vector solitons in mode locked fibre lasers. , 2014, , .		0
389	Information theory analysis of regenerative channels. , 2015, , .		0
390	How Optical Spectrum of Random Fiber Laser is Formed. , 2015, , .		0
391	Polarization dynamics of dissipative solitons in a erbium doped fiber laser passively mode locked by carbon nanotube polymer composite. , 2015, , .		0
392	Recent advances in slow polarization dynamics of ultrashort laser pulses. , 2016, , .		0
393	Investigating optical complexity of the phase transition in the intensity of a fibre laser radiation. , 2016, , .		0
394	Raman fibre laser based amplification in long-haul/unrepeated coherent transmission systems. , 2017, , .		0
395	Dissipation Induced Modulation Instability: New Applications for Frequency Combs and Pulses Generation. , 2018, , .		0
396	Identifying Extreme PAPR in Coherent Optical Communications. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
397	Multisymbol periodic nonlinear Fourier transform communication. , 2019, , .		0
398	Phase Dislocations in the Negative Curvature Hollow Core Fibres. , 2019, , .		0
399	Light Transport and Vortex Formation in All Solid Band Gap Fibres. , 2019, , .		0
400	Computing Continuous Nonlinear Fourier Spectrum of Optical Signal with Artificial Neural Networks. , 2021, , .		0
401	Topological Charge Switch in Active Multi-€Core Fibers. Annalen Der Physik, 2021, 533, 2100108.	0.9	0
402	Computing continuous nonlinear Fourier spectrum of optical signal with artificial neural networks. , 2021, , .		0
403	Stabilization of dispersion-managed soliton transmission in systems with very large map strength by in-line nonlinear optical loop mirrors. , 2001, , .		0
404	OPTIMAL DISPERSION MAPS FOR MULTICHANNEL SOLITON TRANSMISSION WITH DISTRIBUTED RAMAN AMPLIFICATION. , 2003, , .		0
405	Impact of FBGs Reflectivity Shape on Spectra of Radiation in 10 km Raman Fibre Laser. , 2009, , .		0
406	Effect of Rayleigh-Scattering Distributed Feedback in Multi-Wavelength and Tunable Raman Fibre Lasers. , 2011, , .		0
407	Longitudinal power distribution in a random DFB fiber laser. , 2012, , .		0
408	Multipulse Vector Solitons with Precessing States of Polarization. , 2013, , .		0
409	Polarization switching in stretched pulse fiber laser. , 2014, , .		0
410	Dissipative Vector Solitons with Fast Evolving States of Polarization. , 2014, , .		0
411	Breathing Soliton in Cascaded Transmission System with Passive Dispersion Compensation. Solid-state Science and Technology Library, 1996, , 365-373.	0.3	0
412	Theory of Guiding-Center Breathing Soliton Propagation in Optical Communication Systems with Strong Dispersion Management. Solid-state Science and Technology Library, 1998, , 225-243.	0.3	0
413	Capacity of Nonlinear Fibre Channels and Eigenvalue Division Multiplexing for Optical Transmissions. , 2015, , .		0
414	Nonlinear Fourier Transform for Optical Communications. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
415	Broadly-tunable pulse generation in cavity-free graphene random fiber lasers. , 2016, , .		0
416	Self-pulsing Ring Cavity Ultra-long Raman Fiber Laser. , 2017, , .		0
417	Extreme power fluctuations in optical communications. , 2018, , .		0
418	Topological engineering of mode-locked fibre lasers: NALM/NALM2 technologies. , 2018, , .		0
419	Nonlinear Waves in Multimode Fibers. , 2019, , 317-371.		0
420	Experimental evidence of gain-through-loss mechanism in passive fiber ring cavities : toward tunable frequency comb generation. , 2019, , .		0
421	Nonlinear Fourier Transform for Nonlinear Fibre Channels. , 2019, , .		0
422	QoT Evaluation of Optical Line System Transmission with Bismuth-Doped Fiber Amplifiers in the E-Band. , 2021, , .		0
423	Gbaud QPSK E-band Transmission Using Bismuth Doped Fiber Amplifiers. , 2022, , .		0