

# Stefan Wabnitz

## List of Publications by Year in descending order

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607  
papers

15,871  
citations

18482

62  
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26613

107  
g-index

613  
all docs

613  
docs citations

613  
times ranked

4223  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-induced transparency solitons in nonlinear refractive periodic media. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 141, 37-42.	2.1	485
2	Solutions of the Vector Nonlinear Schrödinger Equations: Evidence for Deterministic Rogue Waves. Physical Review Letters, 2012, 109, 044102.	7.8	473
3	Micro-combs: A novel generation of optical sources. Physics Reports, 2018, 729, 1-81.	25.6	448
4	Spatial beam self-cleaning in multimode fibres. Nature Photonics, 2017, 11, 237-241.	31.4	381
5	Soliton switching in fiber nonlinear directional couplers. Optics Letters, 1988, 13, 672.	3.3	302
6	Vector Rogue Waves and Baseband Modulation Instability in the Defocusing Regime. Physical Review Letters, 2014, 113, 034101.	7.8	302
7	Dissipative modulation instability in a nonlinear dispersive ring cavity. Optics Communications, 1992, 91, 401-407.	2.1	290
8	Discrete self-trapping, soliton interactions, and beam steering in nonlinear waveguide arrays. Physical Review E, 1996, 53, 1172-1189.	2.1	285
9	Second-harmonic generation in silicon waveguides strained by silicon nitride. Nature Materials, 2012, 11, 148-154.	27.5	280
10	Roadmap on optical rogue waves and extreme events. Journal of Optics (United Kingdom), 2016, 18, 063001.	2.2	225
11	Observation of Geometric Parametric Instability Induced by the Periodic Spatial Self-Imaging of Multimode Waves. Physical Review Letters, 2016, 116, 183901.	7.8	205
12	Optical solitary waves induced by cross-phase modulation. Optics Letters, 1988, 13, 871.	3.3	201
13	Beneficial impact of wave-breaking for coherent continuum formation in normally dispersive nonlinear fibers. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1938.	2.1	189
14	Dynamics of the nonlinear modulational instability in optical fibers. Optics Letters, 1991, 16, 986.	3.3	181
15	Stability analysis of nonlinear coherent coupling. Journal of Applied Physics, 1985, 58, 4512-4514.	2.5	179
16	Experimental observation of polarization instability in a birefringent optical fiber. Applied Physics Letters, 1986, 49, 1224-1226.	3.3	176
17	Modulational polarization instability of light in a nonlinear birefringent dispersive medium. Physical Review A, 1988, 38, 2018-2021.	2.5	168
18	Pulse solutions of the cubic-quintic complex Ginzburg-Landau equation in the case of normal dispersion. Physical Review E, 1997, 55, 4783-4796.	2.1	164

#	ARTICLE	IF	CITATIONS
19	Suppression of interactions in a phase-locked soliton optical memory. Optics Letters, 1993, 18, 601.	3.3	159
20	Spatial Modulational Instability and Multisolitonlike Generation in a Quadratically Nonlinear Optical Medium. Physical Review Letters, 1997, 78, 2756-2759.	7.8	158
21	Ultrabroadband Dispersive Radiation by Spatiotemporal Oscillation of Multimode Waves. Physical Review Letters, 2015, 115, 223902.	7.8	158
22	Extended nonlinear Schrödinger equation with higher-order odd and even terms and its rogue wave solutions. Physical Review E, 2014, 89, 012907.	2.1	154
23	Baseband modulation instability as the origin of rogue waves. Physical Review A, 2015, 91, .	2.5	150
24	Additive-modulation-instability ring laser in the normal dispersion regime of a fiber. Optics Letters, 1992, 17, 745.	3.3	147
25	Solitary-wave decay and symmetry-breaking instabilities in two-mode fibers. Physical Review A, 1989, 40, 4455-4466.	2.5	144
26	Multimode nonlinear fiber optics, a spatiotemporal avenue. APL Photonics, 2019, 4, .	5.7	142
27	Soliton stability and interactions in fibre lasers. Electronics Letters, 1992, 28, 1981.	1.0	129
28	Soliton switching in nonlinear couplers. Optical and Quantum Electronics, 1992, 24, S1237-S1267.	3.3	127
29	Nonlinear nonreciprocity in a coherent mismatched directional coupler. Applied Physics Letters, 1986, 49, 752-754.	3.3	124
30	Dynamics of the modulational instability in microresonator frequency combs. Physical Review A, 2013, 88, .	2.5	120
31	New all-optical devices based on third-order nonlinearity of birefringent fibers. Optics Letters, 1986, 11, 42.	3.3	114
32	Optical Dark Rogue Wave. Scientific Reports, 2016, 6, 20785.	3.3	113
33	Spatiotemporal characterization of supercontinuum extending from the visible to the mid-infrared in a multimode graded-index optical fiber. Optics Letters, 2016, 41, 5785.	3.3	107
34	Hexagonally patterned beam filamentation in a thin liquid-crystal film with a single feedback mirror. Optics Letters, 1993, 18, 855.	3.3	105
35	Parametric and Raman amplification in birefringent fibers. Journal of the Optical Society of America B: Optical Physics, 1992, 9, 1061.	2.1	102
36	Control of Optical Soliton Interactions. Optical Fiber Technology, 1995, 1, 187-217.	2.7	100

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37	Parabolic pulse generation with active or passive dispersion decreasing optical fibers. Optics Express, 2007, 15, 15824.	3.4	100
38	Walk-Off-Induced Modulation Instability, Temporal Pattern Formation, and Frequency Comb Generation in Cavity-Enhanced Second-Harmonic Generation. Physical Review Letters, 2016, 116, 033901.	7.8	100
39	Instabilities and all-optical phase-controlled switching in a nonlinear directional coherent coupler. Applied Physics Letters, 1986, 49, 838-840.	3.3	93
40	Role of third-order dispersion on soliton instabilities and interactions in optical fibers. Optics Letters, 1994, 19, 165.	3.3	92
41	Analytical theory of guiding-center nonreturn-to-zero and return-to-zero signal transmission in normally dispersive nonlinear optical fibers. Optics Letters, 1995, 20, 2291.	3.3	92
42	Modulation Instability Induced Frequency Comb Generation in a Continuously Pumped Optical Parametric Oscillator. Physical Review Letters, 2018, 121, 093903.	7.8	89
43	Bichromatically pumped microresonator frequency combs. Physical Review A, 2014, 90, .	2.5	85
44	On the numerical simulation of Kerr frequency combs using coupled mode equations. Optics Communications, 2014, 312, 134-136.	2.1	83
45	New exact solutions and bifurcations in the spatial distribution of polarization in third-order nonlinear optical interactions. Physical Review Letters, 1986, 56, 600-603.	7.8	81
46	Storage and steering of self-trapped discrete solitons in nonlinear waveguide arrays. Optics Letters, 1994, 19, 332.	3.3	80
47	Kerr self-cleaning of pulsed beam in an ytterbium doped multimode fiber. Optics Express, 2017, 25, 4783.	3.4	79
48	Optical Kerr Spatiotemporal Dark-Lump Dynamics of Hydrodynamic Origin. Physical Review Letters, 2016, 116, 173901.	7.8	78
49	Ultrashort pulse train generation through induced modulational polarization instability in a birefringent Kerr-like medium. Journal of the Optical Society of America B: Optical Physics, 1989, 6, 238.	2.1	77
50	Parametric amplification and modulational instabilities in dispersive nonlinear directional couplers with relaxing nonlinearity. Journal of the Optical Society of America B: Optical Physics, 1989, 6, 889.	2.1	76
51	Observation of a group of dark rogue waves in a telecommunication optical fiber. Physical Review A, 2018, 97, .	2.5	75
52	Polarization Domain Wall Solitons with Counterpropagating Laser Beams. Physical Review Letters, 1998, 81, 1409-1412.	7.8	74
53	Spatial mode-interaction induced single soliton generation in microresonators. Optica, 2017, 4, 1011.	9.3	74
54	Reduction and suppression of soliton interactions by bandpass filters. Optics Letters, 1993, 18, 1311.	3.3	71

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55	Analysis of soliton stability and interactions with sliding filters. Optics Letters, 1994, 19, 162.	3.3	71
56	Nonlinear dynamics of dual-frequency-pumped multiwave mixing in optical fibers. Physical Review A, 1994, 50, 1732-1747.	2.5	70
57	Nonlinear virtues of multimode fibre. Nature Photonics, 2015, 9, 289-291.	31.4	69
58	Hydrodynamic 2D Turbulence and Spatial Beam Condensation in Multimode Optical Fibers. Physical Review Letters, 2019, 122, 103902.	7.8	68
59	Polarized soliton instability and branching in birefringent fibers. Optics Communications, 1989, 70, 166-172.	2.1	67
60	Frequency comb generation beyond the Lugiato-Lefever equation: multi-stability and super cavity solitons. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1259.	2.1	67
61	Frequency-comb formation in doubly resonant second-harmonic generation. Physical Review A, 2016, 93, .	2.5	67
62	Nonlinear polarization evolution and instability in a twisted birefringent fiber. Optics Letters, 1986, 11, 467.	3.3	64
63	Nonlinear polarization dynamics of counterpropagating waves in an isotropic optical fiber: theory and experiments. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 432.	2.1	61
64	Polarization modulation instability in a Manakov fiber system. Physical Review A, 2015, 92, .	2.5	61
65	Two-wave mixing in a quadratic nonlinear medium: bifurcations, spatial instabilities, and chaos. Optics Letters, 1992, 17, 637.	3.3	60
66	A universal optical all-fiber omnipolarizer. Scientific Reports, 2012, 2, 938.	3.3	59
67	Pulse generation without gain-bandwidth limitation in a laser with self-similar evolution. Optics Express, 2012, 20, 14213.	3.4	59
68	Far-detuned cascaded intermodal four-wave mixing in a multimode fiber. Optics Letters, 2017, 42, 1293.	3.3	59
69	Theory of lossless polarization attraction in telecommunication fibers. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 100.	2.1	58
70	Polarization multistability and instability in a nonlinear dispersive ring cavity. Journal of the Optical Society of America B: Optical Physics, 1994, 11, 446.	2.1	57
71	Power-dependent switching in a coherent nonlinear directional coupler in the presence of saturation. Applied Physics Letters, 1987, 51, 293-295.	3.3	56
72	Weak-pulse-activated coherent soliton switching in nonlinear couplers. Optics Letters, 1991, 16, 1.	3.3	56

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73	Finite-dimensional description of nonlinear pulse propagation in optical-fiber couplers with applications to soliton switching. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1990, 7, 374.	2.1	55
74	Strong spectral filtering for a mode-locked similariton fiber laser. <i>Optics Letters</i> , 2010, 35, 2466.	3.3	55
75	Generation of unipolar pulses from nonunipolar optical pulses in a nonlinear medium. <i>Physical Review A</i> , 2011, 84, .	2.5	55
76	Observation of ultrafast nonlinear polarization switching induced by polarization instability in a birefringent fiber rocking filter. <i>IEEE Journal of Quantum Electronics</i> , 1989, 25, 104-112.	1.9	54
77	Soliton annihilation and fusion from resonant inelastic collisions in birefringent optical fibers. <i>Optics Letters</i> , 1991, 16, 1388.	3.3	54
78	Nonlinear beam self-imaging and self-focusing dynamics in a GRIN multimode optical fiber: theory and experiments. <i>Optics Express</i> , 2020, 28, 24005.	3.4	52
79	Limitations to all-optical switching using nonlinear couplers in the presence of linear and nonlinear absorption and saturation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1988, 5, 472.	2.1	51
80	Observation of induced modulational polarization instabilities and pulse-train generation in the normal-dispersion regime of a birefringent optical fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998, 15, 1266.	2.1	51
81	Stable Control of Pulse Speed in Parametric Three-Wave Solitons. <i>Physical Review Letters</i> , 2006, 97, 093901.	7.8	51
82	Reduction of soliton interaction forces by bandwidth limited amplification. <i>Electronics Letters</i> , 1991, 27, 1931.	1.0	50
83	All-optical switching and intensity discrimination by polarization instability in periodically twisted fiber filters. <i>Optics Letters</i> , 1987, 12, 275.	3.3	49
84	Picosecond nonlinear polarization switching with a fiber filter. <i>Applied Physics Letters</i> , 1988, 53, 837-839.	3.3	49
85	Suppression of soliton interactions by phase modulation. <i>Electronics Letters</i> , 1993, 29, 1711.	1.0	49
86	Spatiotemporal light-beam compression from nonlinear mode coupling. <i>Physical Review A</i> , 2018, 97, .	2.5	49
87	Statistical mechanics of beam self-cleaning in GRIN multimode optical fibers. <i>Optics Express</i> , 2022, 30, 10850.	3.4	49
88	Spatial chaos in the polarization for a birefringent optical fiber with periodic coupling. <i>Physical Review Letters</i> , 1987, 58, 1415-1418.	7.8	48
89	Durable shape sensor based on FBG array inscribed in polyimide-coated multicore optical fiber. <i>Optics Express</i> , 2019, 27, 38421.	3.4	48
90	Optical multistability in a fiber-optic passive-loop resonator. <i>Optics Communications</i> , 1986, 59, 309-312.	2.1	47

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91	Maxwell-Drude-Bloch dissipative few-cycle optical solitons. Physical Review A, 2010, 81, .	2.5	47
92	Obtaining single-cycle pulses from a mode-locked laser. Physical Review A, 2011, 84, .	2.5	47
93	Forward mode coupling in periodic nonlinear-optical fibers: modal dispersion cancellation and resonance solitons. Optics Letters, 1989, 14, 1071.	3.3	46
94	Tunable erbium-ytterbium fiber sliding-frequency soliton laser. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 72.	2.1	46
95	Theory of parabolic pulse propagation in nonlinear dispersion-decreasing optical fiber amplifiers. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 614.	2.1	46
96	Parameter trade-offs in nonlinear directional couplers: Two level saturable nonlinear media. Optics Communications, 1987, 63, 281-284.	2.1	45
97	Nonlinear beam self-cleaning in a coupled cavity composite laser based on multimode fiber. Optics Express, 2017, 25, 22219.	3.4	45
98	Quadratic soliton combs in doubly resonant second-harmonic generation. Optics Letters, 2018, 43, 6033.	3.3	45
99	Kerr beam self-cleaning on the LP <sub>11</sub> mode in graded-index multimode fibers. OSA Continuum, 2019, 2, 1089.	1.8	45
100	Experimental Generation of Riemann Waves in Optics: A Route to Shock Wave Control. Physical Review Letters, 2016, 117, 073902.	7.8	44
101	Spatial beam self-cleaning and supercontinuum generation with Yb-doped multimode graded-index fiber taper based on accelerating self-imaging and dissipative landscape. Optics Express, 2019, 27, 24018.	3.4	44
102	Stabilization of sliding-filtered soliton wavelength division multiplexing transmissions by dispersion-compensating fibers. Optics Letters, 1996, 21, 638.	3.3	43
103	Mid-infrared soliton and Raman frequency comb generation in silicon microrings. Optics Letters, 2014, 39, 6747.	3.3	42
104	Optical turbulence in fiber lasers. Optics Letters, 2014, 39, 1362.	3.3	42
105	Improved Intrapulse Raman Scattering Control via Asymmetric Airy Pulses. Physical Review Letters, 2015, 114, 073901.	7.8	42
106	Phase detecting of solitons by mixing with a continuous-wave background in an optical fiber. Journal of the Optical Society of America B: Optical Physics, 1992, 9, 236.	2.1	41
107	Nonlinear polarization effects in optical fibers: polarization attraction and modulation instability [Invited]. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2754.	2.1	41
108	Stabilisation of optical solitons by an acousto-optic modulator and filter. Electronics Letters, 1994, 30, 261-262.	1.0	40

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109	Self-starting sliding-frequency fibre soliton laser. Electronics Letters, 1994, 30, 321-322.	1.0	40
110	Coupling instability and power-induced switching with two-core dual-polarizations fiber nonlinear couplers. Journal of the Optical Society of America B: Optical Physics, 1988, 5, 483.	2.1	38
111	Generation of solitons in a nonlinear periodic medium. Optics Letters, 1992, 17, 1566.	3.3	38
112	Spatial instabilities, all-optical limiting, and thresholding in nonlinear distributed-feedback devices. Optics Letters, 1987, 12, 1008.	3.3	37
113	Theory of fiber optic Raman polarizers. Optics Letters, 2010, 35, 3970.	3.3	37
114	Wavefront shaping for optimized many-mode Kerr beam self-cleaning in graded-index multimode fiber. Optics Express, 2019, 27, 17311.	3.4	37
115	Analytical method for designing dispersion-managed fiber systems. Optics Letters, 2001, 26, 1544.	3.3	36
116	Modulational Instability and Stimulated Raman Scattering in Normally Dispersive Highly Birefringent Fibers. Optical Fiber Technology, 2001, 7, 170-205.	2.7	36
117	Optical rogue waves in parametric three-wave mixing and coherent stimulated scattering. Physical Review A, 2015, 92, .	2.5	36
118	Nonlinear femtosecond pulse propagation in an all-solid photonic bandgap fiber. Optics Express, 2009, 17, 10393.	3.4	35
119	Efficient modulation frequency doubling by induced modulation instability. Optics Communications, 2010, 283, 1152-1154.	2.1	35
120	Polarization-domain-wall complexes in fiber lasers. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 211.	2.1	35
121	Competing four-wave mixing processes in dispersion oscillating telecom fiber. Optics Letters, 2013, 38, 5361.	3.3	35
122	Singly resonant second-harmonic-generation frequency combs. Physical Review A, 2017, 95, .	2.5	35
123	Polarization switching and suppression of stimulated Raman scattering in birefringent optical fibers. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1433.	2.1	34
124	Multiphoton-Absorption-Excited Up-Conversion Luminescence in Optical Fibers. Physical Review Applied, 2020, 14, .	3.8	34
125	Nonlinear repolarization dynamics in optical fibers: transient polarization attraction. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1782.	2.1	33
126	Single envelope equation modeling of multi-octave comb arrays in microresonators with quadratic and cubic nonlinearities. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1207.	2.1	33



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127	Intermodal modulational instability in graded-index multimode optical fibers. Optics Letters, 2017, 42, 3419.	3.3	33
128	Control of soliton train transmission, storage, and clock recovery by cw light injection. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 2739.	2.1	32
129	Instability and noise-induced thermalization of Fermiâ€Pastaâ€Ulam recurrence in the nonlinear Schrödinger equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2750-2756.	2.1	32
130	Second harmonic generation in multimode graded-index fibers: spatial beam cleaning and multiple harmonic sideband generation. Optics Letters, 2017, 42, 971.	3.3	32
131	Stochastic polarization instability: limitation to optical switching using fibers with modulated birefringence. Optics Letters, 1987, 12, 1044.	3.3	31
132	Frequency tunable polarization and intermodal modulation instability in high birefringence holey fiber. Optics Express, 2006, 14, 397.	3.4	31
133	Theoretical Study of Optical Fiber Raman Polarizers With Counterpropagating Beams. Journal of Lightwave Technology, 2011, 29, 341-347.	4.6	31
134	Optical Frequency Combs in Quadratically Nonlinear Resonators. Micromachines, 2020, 11, 230.	2.9	31
135	Mode decomposition of multimode optical fiber beams by phase-only spatial light modulator. Laser Physics Letters, 2021, 18, 015101.	1.4	31
136	Nonlinear codirectional guided wave mode conversion in grating structures. Journal of Lightwave Technology, 1988, 6, 971-976.	4.6	30
137	Nonlinear propagation and self-switching of ultrashort optical pulses in fiber nonlinear directional couplers: the normal dispersion regime. IEEE Journal of Quantum Electronics, 1989, 25, 1907-1916.	1.9	30
138	Wavelength-dependent soliton self-routing in birefringent fiber filters. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 602.	2.1	30
139	Generation of vector dark-soliton trains by induced modulational instability in a highly birefringent fiber. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 1642.	2.1	30
140	Dynamics of the transition from polarization disorder to antiphase polarization domains in vector fiber lasers. Physical Review A, 2014, 89, .	2.5	30
141	Advances in femtosecond laser direct writing of fiber Bragg gratings in multicore fibers: technology, sensor and laser applications. Opto-Electronic Advances, 2022, 5, 210055-210055.	13.3	30
142	Nonlinear modulation of coupled waves in birefringent optical fibers. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 159, 252-256.	2.1	29
143	Low dimensional modulational chaos in diffractive nonlinear cavities. Optics Communications, 1992, 93, 343-349.	2.1	29
144	Interactions of orthogonally polarized solitons in optical fibers. Optics Communications, 1996, 125, 186-196.	2.1	29

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145	Raman threshold for nth-order cascade Raman amplification. Optical Fiber Technology, 2011, 17, 214-217.	2.7	29
146	Shallow water rogue wavetrains in nonlinear optical fibers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 932-939.	2.1	29
147	Interplay of Kerr and Raman beam cleaning with a multimode microstructure fiber. Optics Letters, 2018, 43, 587.	3.3	29
148	Nonlinear polarization dynamics of Kerr beam self-cleaning in a graded-index multimode optical fiber. Optics Letters, 2019, 44, 171.	3.3	29
149	Thermalization of Orbital Angular Momentum Beams in Multimode Optical Fibers. Physical Review Letters, 2022, 128, .	7.8	29
150	Symmetry-breaking and intrinsic polarization instability in degenerate four-wave mixing. Optics Communications, 1986, 59, 72-76.	2.1	28
151	Dark-soliton-like pulse-train generation from induced modulational polarization instability in a birefringent fiber. Optics Letters, 1998, 23, 511.	3.3	28
152	Dynamics of microresonator frequency comb generation: models and stability. Nanophotonics, 2016, 5, 231-243.	6.0	28
153	Frequency comb generation through the locking of domain walls in doubly resonant dispersive optical parametric oscillators. Optics Letters, 2019, 44, 2004.	3.3	28
154	Efficient Kerr soliton comb generation in micro-resonator with interferometric back-coupling. Nature Communications, 2022, 13, 1292.	12.8	28
155	Polarization Symmetry Breaking and Pulse Train Generation from the Modulation of Light Waves. Physical Review Letters, 1997, 79, 661-664.	7.8	27
156	Inelastic scattering and interactions of three-wave parametric solitons. Physical Review E, 2006, 74, 065602.	2.1	27
157	Seeded intermodal four-wave mixing in a highly multimode fiber. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 295.	2.1	27
158	High-energy soliton fission dynamics in multimode GRIN fiber. Optics Express, 2020, 28, 20473.	3.4	27
159	Roadmap on multimode photonics. Journal of Optics (United Kingdom), 2022, 24, 083001.	2.2	27
160	Intermittent spatial chaos in the polarization of counterpropagating beams in a birefringent optical fiber. Physical Review A, 1987, 36, 3881-3884.	2.5	26
161	Nonlinear Gain Control of Dispersion-Managed Soliton Amplitude and Collisions. Optical Fiber Technology, 2000, 6, 109-121.	2.7	26
162	Theoretical study of polarization attraction in high-birefringence and spun fibers. Optics Letters, 2010, 35, 3949.	3.3	26

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163	Harmonic and supercontinuum generation in quadratic and cubic nonlinear optical media. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1707.	2.1	26
164	Experimental generation of optical flaticon pulses. Optics Letters, 2013, 38, 3899.	3.3	26
165	Optimal frequency conversion in the nonlinear stage of modulation instability. Optics Express, 2015, 23, 30861.	3.4	26
166	Single-mode spatiotemporal soliton attractor in multimode GRIN fibers. Photonics Research, 2021, 9, 741.	7.0	26
167	Conditions for walk-off soliton generation in a multimode fiber. Communications Physics, 2021, 4, .	5.3	26
168	Effect of nonlinear gain and filtering on soliton interaction. Optics Communications, 1995, 118, 577-580.	2.1	25
169	COST 241 intercomparison of nonlinear refractive index measurements in dispersion shifted optical fibres at $\approx 1550$ nm. Electronics Letters, 1997, 33, 1168.	1.0	25
170	Average dispersion decreasing densely dispersion-managed fiber transmission systems. IEEE Photonics Technology Letters, 2002, 14, 1279-1281.	2.5	25
171	Random mode coupling assists Kerr beam self-cleaning in a graded-index multimode optical fiber. Optical Fiber Technology, 2019, 53, 101994.	2.7	25
172	Spatiotemporal optical dark X solitary waves. Optics Letters, 2016, 41, 5571.	3.3	25
173	Polarization instabilities of dark and bright coupled solitary waves in birefringent optical fibers. Physical Review A, 1990, 41, 6415-6424.	2.5	24
174	Nonlinear parametric mixing instabilities induced by self-phase and cross-phase modulation. Optics Letters, 1992, 17, 1572.	3.3	24
175	Perturbation theory for coupled nonlinear Schrödinger equations. Physical Review E, 1996, 54, 5743-5751.	2.1	24
176	Dynamic spontaneous fluorescence in parametric wave coupling. Physical Review E, 1997, 55, R4897-R4900.	2.1	24
177	Optimization of periodically dispersion compensated breathing soliton transmissions. IEEE Photonics Technology Letters, 1997, 9, 1670-1672.	2.5	24
178	Buildup of terahertz vector dark-soliton trains from induced modulation instability in highly birefringent optical fiber. Optics Letters, 1998, 23, 1829.	3.3	24
179	Optical tsunamis: shoaling of shallow water rogue waves in nonlinear fibers with normal dispersion. Journal of Optics (United Kingdom), 2013, 15, 064002.	2.2	24
180	Dual Polarization Nonlinear Frequency Division Multiplexing Transmission. IEEE Photonics Technology Letters, 2018, 30, 1589-1592.	2.5	24

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181	Highly efficient few-mode spatial beam self-cleaning at 1.5 $\mu$ m. Optics Express, 2020, 28, 14333.	3.4	24
182	3D time-domain beam mapping for studying nonlinear dynamics in multimode optical fibers. Optics Letters, 2021, 46, 66.	3.3	24
183	Polarization evolution dynamics of dissipative soliton fiber lasers. Photonics Research, 2019, 7, 1331.	7.0	24
184	Self-injected spatial mode locking and coherent all-optical FM/AM switching based on modulational instability. Optics Letters, 1991, 16, 1566.	3.3	23
185	Polarization domains and instabilities in nonlinear optical fibers. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 182, 289-293.	2.1	23
186	Parametric frequency conversion of short optical pulses controlled by a CW background. Optics Express, 2007, 15, 12246.	3.4	23
187	Modulational instability of nonlinear polarization mode coupling in microresonators. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 835.	2.1	23
188	Random Raman fiber laser based on a twin-core fiber with FBGs inscribed by femtosecond radiation. Optics Letters, 2019, 44, 295.	3.3	23
189	Role of dispersion in pulse emission from a sliding-frequency fiber laser. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 938.	2.1	22
190	Coherence loss of partially mode-locked fibre laser. Scientific Reports, 2016, 6, 24995.	3.3	22
191	Femtosecond nonlinear losses in multimode optical fibers. Photonics Research, 2021, 9, 2443.	7.0	22
192	Bandwidth limits of soliton transmission with sliding filters. Optics Communications, 1994, 104, 293-297.	2.1	21
193	Soliton coding based on shape invariant interacting soliton packets: the three-soliton case. Optics Communications, 1994, 104, 385-390.	2.1	21
194	Bragg grating rogue wave. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1067-1070.	2.1	21
195	Complementary optical rogue waves in parametric three-wave mixing. Optics Express, 2016, 24, 5886.	3.4	21
196	Role of pump-induced dispersion on femtosecond soliton amplification in erbium-doped fibers. Optics Letters, 1992, 17, 923.	3.3	20
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