

# Stefan Wabnitz

## List of Publications by Year in descending order

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607  
papers

15,871  
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18479

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613  
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613  
docs citations

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times ranked

4223  
citing authors

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

#	ARTICLE	IF	CITATIONS
19	Suppression of interactions in a phase-locked soliton optical memory. <i>Optics Letters</i> , 1993, 18, 601.	3.3	159
20	Spatial Modulational Instability and Multisolitonlike Generation in a Quadratically Nonlinear Optical Medium. <i>Physical Review Letters</i> , 1997, 78, 2756-2759.	7.8	158
21	Ultrabroadband Dispersive Radiation by Spatiotemporal Oscillation of Multimode Waves. <i>Physical Review Letters</i> , 2015, 115, 223902.	7.8	158
22	Extended nonlinear Schrödinger equation with higher-order odd and even terms and its rogue wave solutions. <i>Physical Review E</i> , 2014, 89, 012907.	2.1	154
23	Baseband modulation instability as the origin of rogue waves. <i>Physical Review A</i> , 2015, 91, .	2.5	150
24	Additive-modulation-instability ring laser in the normal dispersion regime of a fiber. <i>Optics Letters</i> , 1992, 17, 745.	3.3	147
25	Solitary-wave decay and symmetry-breaking instabilities in two-mode fibers. <i>Physical Review A</i> , 1989, 40, 4455-4466.	2.5	144
26	Multimode nonlinear fiber optics, a spatiotemporal avenue. <i>APL Photonics</i> , 2019, 4, .	5.7	142
27	Soliton stability and interactions in fibre lasers. <i>Electronics Letters</i> , 1992, 28, 1981.	1.0	129
28	Soliton switching in nonlinear couplers. <i>Optical and Quantum Electronics</i> , 1992, 24, S1237-S1267.	3.3	127
29	Nonlinear nonreciprocity in a coherent mismatched directional coupler. <i>Applied Physics Letters</i> , 1986, 49, 752-754.	3.3	124
30	Dynamics of the modulational instability in microresonator frequency combs. <i>Physical Review A</i> , 2013, 88, .	2.5	120
31	New all-optical devices based on third-order nonlinearity of birefringent fibers. <i>Optics Letters</i> , 1986, 11, 42.	3.3	114
32	Optical Dark Rogue Wave. <i>Scientific Reports</i> , 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. <i>Optics Letters</i> , 2016, 41, 5785.	3.3	107
34	Hexagonally patterned beam filamentation in a thin liquid-crystal film with a single feedback mirror. <i>Optics Letters</i> , 1993, 18, 855.	3.3	105
35	Parametric and Raman amplification in birefringent fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1992, 9, 1061.	2.1	102
36	Control of Optical Soliton Interactions. <i>Optical Fiber Technology</i> , 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. <i>Optics Letters</i> , 1994, 19, 162.	3.3	71
56	Nonlinear dynamics of dual-frequency-pumped multiwave mixing in optical fibers. <i>Physical Review A</i> , 1994, 50, 1732-1747.	2.5	70
57	Nonlinear virtues of multimode fibre. <i>Nature Photonics</i> , 2015, 9, 289-291.	31.4	69
58	Hydrodynamic 2D Turbulence and Spatial Beam Condensation in Multimode Optical Fibers. <i>Physical Review Letters</i> , 2019, 122, 103902.	7.8	68
59	Polarized soliton instability and branching in birefringent fibers. <i>Optics Communications</i> , 1989, 70, 166-172.	2.1	67
60	Frequency comb generation beyond the Lugiato-Lefever equation: multi-stability and super cavity solitons. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1259.	2.1	67
61	Frequency-comb formation in doubly resonant second-harmonic generation. <i>Physical Review A</i> , 2016, 93, .	2.5	67
62	Nonlinear polarization evolution and instability in a twisted birefringent fiber. <i>Optics Letters</i> , 1986, 11, 467.	3.3	64
63	Nonlinear polarization dynamics of counterpropagating waves in an isotropic optical fiber: theory and experiments. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 432.	2.1	61
64	Polarization modulation instability in a Manakov fiber system. <i>Physical Review A</i> , 2015, 92, .	2.5	61
65	Two-wave mixing in a quadratic nonlinear medium: bifurcations, spatial instabilities, and chaos. <i>Optics Letters</i> , 1992, 17, 637.	3.3	60
66	A universal optical all-fiber omnipolarizer. <i>Scientific Reports</i> , 2012, 2, 938.	3.3	59
67	Pulse generation without gain-bandwidth limitation in a laser with self-similar evolution. <i>Optics Express</i> , 2012, 20, 14213.	3.4	59
68	Far-detuned cascaded intermodal four-wave mixing in a multimode fiber. <i>Optics Letters</i> , 2017, 42, 1293.	3.3	59
69	Theory of lossless polarization attraction in telecommunication fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 100.	2.1	58
70	Polarization multistability and instability in a nonlinear dispersive ring cavity. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994, 11, 446.	2.1	57
71	Power-dependent switching in a coherent nonlinear directional coupler in the presence of saturation. <i>Applied Physics Letters</i> , 1987, 51, 293-295.	3.3	56
72	Weak-pulse-activated coherent soliton switching in nonlinear couplers. <i>Optics Letters</i> , 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 FBC 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. <i>Physical Review A</i> , 2010, 81, .	2.5	47
92	Obtaining single-cycle pulses from a mode-locked laser. <i>Physical Review A</i> , 2011, 84, .	2.5	47
93	Forward mode coupling in periodic nonlinear-optical fibers: modal dispersion cancellation and resonance solitons. <i>Optics Letters</i> , 1989, 14, 1071.	3.3	46
94	Tunable erbium-ytterbium fiber sliding-frequency soliton laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1995, 12, 72.	2.1	46
95	Theory of parabolic pulse propagation in nonlinear dispersion-decreasing optical fiber amplifiers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 614.	2.1	46
96	Parameter trade-offs in nonlinear directional couplers: Two level saturable nonlinear media. <i>Optics Communications</i> , 1987, 63, 281-284.	2.1	45
97	Nonlinear beam self-cleaning in a coupled cavity composite laser based on multimode fiber. <i>Optics Express</i> , 2017, 25, 22219.	3.4	45
98	Quadratic soliton combs in doubly resonant second-harmonic generation. <i>Optics Letters</i> , 2018, 43, 6033.	3.3	45
99	Kerr beam self-cleaning on the LP <sub>11</sub> mode in graded-index multimode fibers. <i>OSA Continuum</i> , 2019, 2, 1089.	1.8	45
100	Experimental Generation of Riemann Waves in Optics: A Route to Shock Wave Control. <i>Physical Review Letters</i> , 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. <i>Optics Express</i> , 2019, 27, 24018.	3.4	44
102	Stabilization of sliding-filtered soliton wavelength division multiplexing transmissions by dispersion-compensating fibers. <i>Optics Letters</i> , 1996, 21, 638.	3.3	43
103	Mid-infrared soliton and Raman frequency comb generation in silicon microrings. <i>Optics Letters</i> , 2014, 39, 6747.	3.3	42
104	Optical turbulence in fiber lasers. <i>Optics Letters</i> , 2014, 39, 1362.	3.3	42
105	Improved Intrapulse Raman Scattering Control via Asymmetric Airy Pulses. <i>Physical Review Letters</i> , 2015, 114, 073901.	7.8	42
106	Phase detecting of solitons by mixing with a continuous-wave background in an optical fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1992, 9, 236.	2.1	41
107	Nonlinear polarization effects in optical fibers: polarization attraction and modulation instability [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2754.	2.1	41
108	Stabilisation of optical solitons by an acousto-optic modulator and filter. <i>Electronics Letters</i> , 1994, 30, 261-262.	1.0	40

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



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

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

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163	Harmonic and supercontinuum generation in quadratic and cubic nonlinear optical media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 1707.	2.1	26
164	Experimental generation of optical flaticon pulses. <i>Optics Letters</i> , 2013, 38, 3899.	3.3	26
165	Optimal frequency conversion in the nonlinear stage of modulation instability. <i>Optics Express</i> , 2015, 23, 30861.	3.4	26
166	Single-mode spatiotemporal soliton attractor in multimode GRIN fibers. <i>Photonics Research</i> , 2021, 9, 741.	7.0	26
167	Conditions for walk-off soliton generation in a multimode fiber. <i>Communications Physics</i> , 2021, 4, .	5.3	26
168	Effect of nonlinear gain and filtering on soliton interaction. <i>Optics Communications</i> , 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. <i>Electronics Letters</i> , 1997, 33, 1168.	1.0	25
170	Average dispersion decreasing densely dispersion-managed fiber transmission systems. <i>IEEE Photonics Technology Letters</i> , 2002, 14, 1279-1281.	2.5	25
171	Random mode coupling assists Kerr beam self-cleaning in a graded-index multimode optical fiber. <i>Optical Fiber Technology</i> , 2019, 53, 101994.	2.7	25
172	Spatiotemporal optical dark X solitary waves. <i>Optics Letters</i> , 2016, 41, 5571.	3.3	25
173	Polarization instabilities of dark and bright coupled solitary waves in birefringent optical fibers. <i>Physical Review A</i> , 1990, 41, 6415-6424.	2.5	24
174	Nonlinear parametric mixing instabilities induced by self-phase and cross-phase modulation. <i>Optics Letters</i> , 1992, 17, 1572.	3.3	24
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