Dmitry Skryabin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/18364/publications.pdf

Version: 2024-02-01

229	8,008	57758	58581
papers	citations	44 h-index	82 g-index

232	232	232	3246
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Soliton Self-Frequency Shift Cancellation in Photonic Crystal Fibers. Science, 2003, 301, 1705-1708.	12.6	459
2	Transformation and control of ultra-short pulses in dispersion-engineered photonic crystal fibres. Nature, 2003, 424, 511-515.	27.8	402
3	Optical solitons due to quadratic nonlinearities: from basic physics to futuristic applications. Physics Reports, 2002, 370, 63-235.	25.6	379
4	Optical Solitons Carrying Orbital Angular Momentum. Physical Review Letters, 1997, 79, 2450-2453.	7.8	327
5	Colloquium: Looking at a soliton through the prism of optical supercontinuum. Reviews of Modern Physics, 2010, 82, 1287-1299.	45.6	318
6	Light trapping in gravity-like potentials and expansion of supercontinuum spectra in photonic-crystal fibres. Nature Photonics, 2007, 1, 653-657.	31.4	256
7	Observation of bright polariton solitons in a semiconductor microcavity. Nature Photonics, 2012, 6, 50-55.	31.4	237
8	Theory of generation of new frequencies by mixing of solitons and dispersive waves in optical fibers. Physical Review E, 2005, 72, 016619.	2.1	170
9	Four-wave mixing of linear waves and solitons in fibers with higher-order dispersion. Optics Letters, 2004, 29, 2411.	3.3	147
10	Theory of the soliton self-frequency shift compensation by the resonant radiation in photonic crystal fibers. Physical Review E, 2004, 70, 016615.	2.1	133
11	Dynamics of self-trapped beams with phase dislocation in saturable Kerr and quadratic nonlinear media. Physical Review E, 1998, 58, 3916-3930.	2.1	131
12	Interaction of an Optical Soliton with a Dispersive Wave. Physical Review Letters, 2005, 95, 213902.	7.8	128
13	Stability of Multihump Optical Solitons. Physical Review Letters, 1999, 83, 296-299.	7.8	124
14	Modulational instability and solitary waves in polariton topological insulators. Optica, 2016, 3, 1228.	9.3	119
15	Amplified spontaneous emission of surface plasmon polaritons and limitations on the increase of their propagation length. Optics Letters, 2010, 35, 1197.	3.3	115
16	Bright Cavity Polariton Solitons. Physical Review Letters, 2009, 102, 153904.	7.8	113
17	Soliton families and resonant radiation in a micro-ring resonator near zero group-velocity dispersion. Optics Express, 2014, 22, 3732.	3.4	103
18	Four-wave mixing of solitons with radiation and quasi-nondispersive wave packets at the short-wavelength edge of a supercontinuum. Optics Express, 2006, 14, 9854.	3.4	102

#	Article	IF	Citations
19	Two-dimensional clusters of solitary structures in driven optical cavities. Physical Review E, 2002, 65, 046606.	2.1	101
20	Instabilities of vortices in a binary mixture of trapped Bose-Einstein condensates: Role of collective excitations with positive and negative energies. Physical Review A, 2000, 63, .	2.5	91
21	Theory of radiation trapping by the accelerating solitons in optical fibers. Physical Review A, 2007, 76, .	2.5	91
22	Solitons and frequency combs in silica microring resonators: Interplay of the Raman and higher-order dispersion effects. Physical Review A, 2015, 92, .	2.5	91
23	Time-spectrally-resolved ultrafast nonlinear dynamics in small-core photonic crystal fibers: Experiment and modelling. Optics Express, 2004, 12, 6498.	3.4	88
24	Bistable Topological Insulator with Exciton-Polaritons. Physical Review Letters, 2017, 119, 253904.	7.8	86
25	Nonlinear waveguide optics and photonic crystal fibers. Optics Express, 2007, 15, 15365.	3.4	85
26	Dark polariton solitons in semiconductor microcavities. Physical Review A, 2008, 78, .	2.5	79
27	Two-Dimensional Topological Polariton Laser. Physical Review Letters, 2019, 122, 083902.	7.8	78
28	Generation and stability of optical bullets in quadratic nonlinear media. Optics Communications, 1998, 148, 79-84.	2.1	77
29	Exploring nonlinear topological states of matter with exciton-polaritons: Edge solitons in kagome lattice. Scientific Reports, 2017, 7, 1780.	3.3	75
30	Ultra-low-power hybrid lightâ€“matter solitons. Nature Communications, 2015, 6, 8317.	12.8	74
31	Vortex Induced Rotation of Clusters of Localized States in the Complex Ginzburg-Landau Equation. Physical Review Letters, 2002, 89, 044101.	7.8	62
32	Two-Dimensional Localization of Exciton Polaritons in Microcavities. Physical Review Letters, 2010, 105, 073903.	7.8	62
33	Stable spatial plasmon solitons in a dielectric-metal-dielectric geometry with gain and loss. Optics Express, 2011, 19, 6616.	3.4	62
34	Dark Solitons in High Velocity Waveguide Polariton Fluids. Physical Review Letters, 2017, 119, 097403.	7.8	61
35	Energy exchange between colliding solitons in photonic crystal fibers. Optics Express, 2006, 14, 9844.	3.4	60
36	Frequency Comb Generation via Cascaded Second-Order Nonlinearities in Microresonators. Physical Review Letters, 2020, 124, 203902.	7.8	60

#	Article	IF	Citations
37	Universal criterion and amplitude equation for a nonequilibrium Ising-Bloch transition. Physical Review E, 2001, 63, 066602.	2.1	58
38	Four-wave mixing instabilities in photonic-crystal and tapered fibers. Physical Review E, 2003, 68, 046603.	2.1	56
39	Lieb polariton topological insulators. Physical Review B, 2018, 97, .	3.2	56
40	Newton's cradles in optics: From<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>-soliton fission to soliton chains. Physical Review A, 2013, 87, .	2.5	54
41	Interaction of cavity solitons in degenerate optical parametric oscillators. Optics Letters, 1999, 24, 1056.	3.3	53
42	Soliton interaction mediated by cascaded four wave mixing with dispersive waves. Optics Express, 2013, 21, 14481.	3.4	52
43	Effects of Spin-Dependent Interactions on Polarization of Bright Polariton Solitons. Physical Review Letters, 2014, 112, 046403.	7.8	47
44	Bragg localized structures in a passive cavity with transverse modulation of the refractive index and the pump. Optics Express, 2006, 14, 1.	3.4	45
45	Instabilities of cavity solitons in optical parametric oscillators. Physical Review E, 1999, 60, R3508-R3511.	2.1	44
46	Soliton self-frequency shift, non-solitonic radiation and self-induced transparency in air-core fibers. Optics Express, 2008, 16, 4858.	3.4	44
47	Time and frequency domain measurements of solitons in subwavelength silicon waveguides using a cross-correlation technique. Optics Express, 2010, 18, 26625.	3.4	44
48	Coupled core-surface solitons in photonic crystal fibers. Optics Express, 2004, 12, 4841.	3.4	41
49	Ginzburg-Landau equation bound to the metal-dielectric interface and transverse nonlinear optics with amplified plasmon polaritons. Physical Review A, 2010, 81, .	2.5	41
50	Frequency combs in a microring optical parametric oscillator. Optics Letters, 2019, 44, 4443.	3.3	41
51	Effective Kerr Nonlinearity and Two-Color Solitons in Photonic Band-Gap Fibers Filled with a Raman Active Gas. Physical Review Letters, 2004, 93, 143907.	7.8	40
52	Bouncing of a dispersive pulse on an accelerating soliton and stepwise frequency conversion in optical fibers. Optics Express, 2007, 15, 14560.	3.4	40
53	Soliton and quasi-soliton frequency combs due to second harmonic generation in microresonators. Optics Express, 2019, 27, 7098.	3.4	40
54	Spatiotemporal dissipative solitons and vortices in a multi-transverse-mode fiber laser. Optics Express, 2019, 27, 37364.	3.4	39

#	Article	IF	Citations
55	Solitons and spectral broadening in long silicon-on- insulator photonic wires. Optics Express, 2008, 16, 3310.	3.4	38
56	Internal oscillations of solitons in two-dimensional NLS equation with nonlocal nonlinearity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 293, 45-49.	2.1	37
57	Spatiotemporal quasisolitons and resonant radiation in arrays of silicon-on-insulator photonic wires. Physical Review A, 2008, 78, .	2.5	36
58	Raman-Kerr frequency combs in microresonators with normal dispersion. Optics Express, 2017, 25, 31148.	3.4	36
59	Stationary and oscillatory bound states of dissipative solitons created by third-order dispersion. Optics Letters, 2018, 43, 2688.	3.3	35
60	Graphene-clad tapered fiber: effective nonlinearity and propagation losses. Optics Letters, 2013, 38, 5244.	3.3	33
61	Continuum generation by dark solitons. Optics Letters, 2009, 34, 2096.	3.3	32
62	Effects of spatial inhomogeneities on the dynamics of cavity solitons in quadratically nonlinear media. Physical Review E, 2001, 64, 036610.	2.1	31
63	Transition Radiation by Matter-Wave Solitons in Optical Lattices. Physical Review Letters, 2003, 91, 260402.	7.8	30
64	Perturbation theory for domain walls in the parametric Ginzburg-Landau equation. Physical Review E, 2001, 64, 056618.	2.1	29
65	Energy of the soliton internal modes and broken symmetries in nonlinear optics. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 529.	2.1	28
66	Dissipative localized structures of light in photonic crystal films. Optics Express, 2005, 13, 3529.	3.4	28
67	Third-harmonic generation by Raman-shifted solitons in a photonic-crystal fiber. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1975.	2.1	28
68	Discrete cavity solitons due to saturable nonlinearity. Physical Review A, 2008, 78, .	2.5	28
69	Coupled-mode approach to surface plasmon polaritons in nonlinear periodic structures. Optics Letters, 2010, 35, 3532.	3.3	28
70	Modulational Instability of Solitary Waves in Nondegenerate Three-Wave Mixing: The Role of Phase Symmetries. Physical Review Letters, 1998, 81, 3379-3382.	7.8	27
71	Spatial solitons in periodic nanostructures. Physical Review A, 2009, 79, .	2.5	27
72	Amplification of surface plasmon polaritons in the presence of nonlinearity and spectral signatures of threshold crossover. Optics Letters, 2009, 34, 2864.	3.3	27

#	Article	IF	Citations
73	Vector modulational instabilities in ultra-small core optical fibres. Journal of Optics, 2004, 6, 301-306.	1.5	26
74	Phase-sensitive scattering of a continuous wave on a soliton. Optics Letters, 2006, 31, 1624.	3.3	26
75	Gap polariton solitons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3024-3027.	2.1	26
76	Surface-induced nonlinearity enhancement of TM modes in planar subwavelength waveguides. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 109.	2.1	26
77	Hierarchy of coupled mode and envelope models for bi-directional microresonators with Kerr nonlinearity. OSA Continuum, 2020, 3, 1364.	1.8	26
78	Coupling induced anomalous group velocity dispersion in nonlinear arrays of silicon photonic wires. Optics Express, 2009, 17, 5879.	3.4	25
79	Spatiotemporal nonlinear optics in arrays of subwavelength waveguides. Physical Review A, 2010, 82, .	2.5	25
80	Parametric polariton solitons in coherently pumped semiconductor microcavities. Physical Review B, 2011, 84, .	3.2	25
81	Soliton physics with semiconductor excitonâ€“polaritons in confined systems. Comptes Rendus Physique, 2016, 17, 908-919.	0.9	25
82	Frequency Selection by Soliton Excitation in Nondegenerate Intracavity Down-conversion. Physical Review Letters, 2000, 84, 463-466.	7.8	24
83	Soliton-plasmon resonances as Maxwell nonlinear bound states. Optics Letters, 2012, 37, 4221.	3.3	24
84	Vortex algebra by multiply cascaded four-wave mixing of femtosecond optical beams. Optics Express, 2014, 22, 11079.	3.4	24
85	Topological spin Meissner effect in spinor exciton-polariton condensate: Constant amplitude solutions, half-vortices, and symmetry breaking. Physical Review B, 2016, 94, .	3.2	24
86	Resonant Edgeâ€State Switching in Polariton Topological Insulators. Laser and Photonics Reviews, 2018, 12, 1700348.	8.7	24
87	Stability of spiralling solitary waves in Hamiltonian systems. Physical Review E, 2002, 66, 055602.	2.1	23
88	Vortex Lattices in Coherently Pumped Polariton Microcavities. Physical Review Letters, 2010, 104, 213903.	7.8	23
89	Polariton solitons due to saturation of the exciton-photon coupling. Physical Review B, 2010, 82, .	3.2	23
90	Backward Cherenkov radiation emitted by polariton solitons in a microcavity wire. Nature Communications, 2017, 8, 1554.	12.8	23

#	Article	IF	Citations
91	Multistability and coexisting soliton combs in ring resonators: the Lugiato-Lefever approach. Optics Express, 2017, 25, 11550.	3.4	23
92	Instabilities of higher-order parametric solitons: Filamentation versus coalescence. Physical Review E, 1998, 58, R1252-R1255.	2.1	22
93	Stability of multi-parameter solitons: asymptotic approach. Physica D: Nonlinear Phenomena, 2000, 139, 186-193.	2.8	22
94	Out-of-gap Bose-Einstein solitons in optical lattices. Physical Review A, 2003, 67, .	2.5	22
95	Solitons in Hollow Core Photonic Crystal Fiber: Engineering Nonlinearity and Compressing Pulses. Journal of Lightwave Technology, 2009, 27, 1644-1652.	4.6	22
96	Surface-induced nonlinearity enhancement in subwavelength rod waveguides. Physical Review A, 2011, 84, .	2.5	22
97	White light generated by femtosecond optical vortex beams. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 681.	2.1	22
98	Energy of internal modes of nonlinear waves and complex frequencies due to symmetry breaking. Physical Review E, 2001, 64, 055601.	2.1	21
99	Cascaded Generation of Multiply Charged Optical Vortices and Spatiotemporal Helical Beams in a Raman Medium. Physical Review Letters, 2007, 98, 243601.	7.8	21
100	Polychromatic Cherenkov radiation and supercontinuum in tapered optical fibers. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 589.	2.1	21
101	Spatial Patterns of Dissipative Polariton Solitons in Semiconductor Microcavities. Physical Review Letters, 2015, 115, 256401.	7.8	21
102	Emission of dispersive waves from a train of dark solitons in optical fibers. Optics Letters, 2016, 41, 2454.	3.3	21
103	Localized states in a triangular set of linearly coupled complex Ginzburg-Landau equations. Physical Review E, 2006, 74, 066604.	2.1	20
104	Self-locking of the frequency comb repetition rate in microring resonators with higher order dispersions. Optics Express, 2017, 25, 27442.	3.4	20
105	Floquet topological insulator laser. APL Photonics, 2019, 4, .	5.7	20
106	Modulational instability of discrete solitons in coupled waveguides with group velocity dispersion. Optics Express, 2006, 14, 12347.	3.4	19
107	Finiteâ€Dimensional Bistable Topological Insulators: From Small to Large. Laser and Photonics Reviews, 2019, 13, 1900198.	8.7	19
108	Walking cavity solitons. Physical Review E, 2001, 63, 066610.	2.1	18

#	Article	IF	Citations
109	Optical-parametric-oscillation-based Ï‡⁽²⁾ frequency comb in a lithium niobate microresonator. Optics Express, 2021, 29, 41378.	3.4	18
110	Threshold of complexity and Arnold tongues in Kerr-ring microresonators. Physical Review A, 2021, 103, .	2.5	17
111	Localized Polaritons and Second-Harmonic Generation in a Resonant Medium with Quadratic Nonlinearity. Physical Review Letters, 2006, 96, 163904.	7.8	16
112	Multiple nonlinear resonances and frequency combs in bottle microresonators. Optics Express, 2017, 25, 10306.	3.4	16
113	Spatiotemporal continuum generation in polariton waveguides. Light: Science and Applications, 2019, 8, 6.	16.6	16
114	Resonant radiation and collapse of ultrashort pulses in planar waveguides. Optics Letters, 2005, 30, 525.	3.3	15
115	Supermode dispersion and waveguide-to-slot mode transition in arrays of silicon-on-insulator waveguides. Optics Letters, 2010, 35, 3925.	3.3	15
116	Modulational instability of bright solitary waves in incoherently coupled nonlinear SchrÃ¶dinger equations. Physical Review E, 1999, 60, 1019-1029.	2.1	14
117	Multi-stability and polariton solitons in microcavity wires. Optics Letters, 2015, 40, 1787.	3.3	14
118	Efficiency of four-wave mixing between orthogonally polarized linear waves and solitons in a birefringent fiber. Physical Review A, 2016, 94, .	2.5	14
119	Spectral-discrete solitons and localization in frequency space. Optics Letters, 2006, 31, 3309.	3.3	13
120	Polarization instability of solitons in photonic crystal fibers. Optics Express, 2006, 14, 6550.	3.4	13
121	Nonlinear switching in arrays of semiconductor on metal photonic wires. Applied Physics Letters, 2011, 98, 111104.	3.3	13
122	Spectral wings of the fiber supercontinuum and the dark-bright soliton interaction. Optics Express, 2017, 25, 10494.	3.4	13
123	Spin Domains in One-Dimensional Conservative Polariton Solitons. ACS Photonics, 2018, 5, 5095-5102.	6.6	13
124	One- and two-dimensional modes in the complex Ginzburg-Landau equation with a trapping potential. Optics Express, 2018, 26, 8849.	3.4	13
125	Two-dimensional nonlinear modes and frequency combs in bottle microresonators. Optics Letters, 2018, 43, 2680.	3.3	13
126	All-optical supercontinuum switching. Communications Physics, 2020, 3, .	5.3	13

#	Article	IF	Citations
127	Coupled-mode theory for microresonators with quadratic nonlinearity. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2604.	2.1	13
128	Transition from Propagating Polariton Solitons to a Standing Wave Condensate Induced by Interactions. Physical Review Letters, 2018, 120, 167402.	7.8	12
129	Clusters of Cavity Solitons Bounded by Conical Radiation. Physical Review Letters, 2018, 121, 103903.	7.8	12
130	Bright-soliton frequency combs and dressed states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>Ï‡</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:m microresonators. Physical Review A, 2021, 104, .	2.5	12
131	Raman solitons with group velocity dispersion. Physical Review E, 2006, 74, 046616.	2.1	11
132	Vortex solitons in an off-resonant Raman medium. Physical Review A, 2008, 77, .	2.5	11
133	One-dimensional polariton solitons and soliton waveguiding in microcavities. Superlattices and Microstructures, 2010, 47, 5-9.	3.1	11
134	Variational theory of soliplasmon resonances. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2507.	2.1	11
135	Chiral solitons in spinor polariton rings. Physical Review B, 2018, 97, .	3.2	11
136	Vortex modes supported by spinâ€“orbit coupling in a laser with saturable absorption. New Journal of Physics, 2018, 20, 113019.	2.9	11
137	Inhibition of tunneling and edge state control in polariton topological insulators. APL Photonics, 2018, 3, 120801.	5.7	11
138	Grayness-dependent emission of dispersive waves from dark solitons in optical fibers. Optics Letters, 2018, 43, 1511.	3.3	11
139	Spontaneous phase symmetry breaking due to cavity detuning in a class-A bidirectional ring laser. Optics Communications, 1995, 116, 109-115.	2.1	10
140	Role of internal and continuum modes in modulational instability of quadratic solitons. Physical Review E, 1999, 60, 7511-7517.	2.1	10
141	Slowing down of solitons by intrapulse Raman scattering in fibers with frequency cutoff. Optics Letters, 2006, 31, 3092.	3.3	10
142	Modulational instability in a silicon-on-insulator directional coupler: role of the coupling-induced group velocity dispersion. Optics Letters, 2012, 37, 668.	3.3	10
143	Spinâ€“orbit coupling and nonlinear modes of the polariton condensate in a harmonic trap. New Journal of Physics, 2017, 19, 085003.	2.9	10
144	Finesse and four-wave mixing in microresonators. Physical Review A, 2021, 103, .	2.5	10

#	Article	IF	Citations
145	Polarization dynamics of Bragg solitons. Physical Review E, 2002, 66, 046603.	2.1	9
146	Tuning resonant interaction of orthogonally polarized solitons and dispersive waves with the soliton power. Optics Express, 2014, 22, 10995.	3.4	9
147	Two-dimensional lattice solitons in polariton condensates with spin-orbit coupling. Optics Letters, 2016, 41, 5043.	3.3	9
148	Cavity solitons in a microring dimer with gain and loss. Optics Letters, 2018, 43, 979.	3.3	9
149	Spinâ€“Orbit Coupled Polariton Condensates in a Radially Periodic Potential: Multiring Vortices and Rotating Solitons. ACS Photonics, 2018, 5, 3634-3642.	6.6	9
150	Bloch oscillations of topological edge modes. Physical Review A, 2019, 99, .	2.5	9
151	Topological solitons in arrays of modelocked lasers. Optics Letters, 2021, 46, 2123.	3.3	9
152	Frequency comb generation in a resonantly pumped exciton-polariton microring resonator. Optics Express, 2018, 26, 24003.	3.4	8
153	Photon-photon polaritons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>Ï‡</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>3</mml:mn><mml:mn>)</mml:mn></mml:mrow></mml:msup></mml:math> microresonators. Physical Review Research, 2021, 3, .	3.6	8
154	Spatiotemporal solitons in dispersion-managed multimode fibers. Journal of Optics (United Kingdom), 2021, 23, 015501.	2.2	8
155	Nontopological Raman-Kerr self-induced transparency solitons in photonic crystal fibers. Physical Review E, 2006, 73, 045603.	2.1	7
156	Collision between a dark soliton and a linear wave in an optical fiber. Optics Express, 2018, 26, 23480.	3.4	7
157	Temporal quadratic solitons and their interaction with dispersive waves in lithium niobate nanowaveguides. Physical Review Research, 2019, 1, .	3.6	7
158	Stability analysis of numerically exact time-periodic breathers in the Lugiato-Lefever equation: Discrete vs continuum. Physical Review Research, 2019, 1, .	3.6	7
159	Soliton blockade in bidirectional microresonators. Optics Letters, 2020, 45, 6446.	3.3	7
160	Compressing slow solitons. Nature Photonics, 2010, 4, 806-807.	31.4	6
161	Dispersion of nonlinearity in subwavelength waveguides: derivation of pulse propagation equation and frequency conversion effects. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 812.	2.1	6
162	Raman solitons in waveguides with simultaneous quadratic and Kerr nonlinearities. Physical Review A, 2020, 102, .	2.5	6

#	Article	IF	Citations
163	Phase and amplitude dynamics of the TEM10and TEM01modes in a class-B laser. Quantum Electronics, 1997, 27, 892-896.	1.0	5
164	Sech-squared Pockels solitons in the microresonator parametric down-conversion. Optics Express, 2021, 29, 28521.	3.4	5
165	Parametric instabilities of microcavity polaritons in a periodic potential. Physical Review B, 2010, 82, .	3.2	4
166	Dispersion of nonlinearity and modulation instability in subwavelength semiconductor waveguides. Optics Express, 2011, 19, 9345.	3.4	4
167	Ladder of Eckhaus instabilities and parametric conversion in chi(2) microresonators. Communications Physics, 2022, 5, .	5.3	4
168	Quantum lattice solitons in ultracold bosons near the Feshbach resonance. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 3507-3517.	1.5	3
169	Degenerate four-wave mixing of optical vortices assisted by self-phase and cross-phase modulation. Proceedings of SPIE, 2010, , .	0.8	3
170	Solitons in semiconductor microcavities. Nature Photonics, 2012, 6, 204-204.	31.4	3
171	Dark solitons and vortices in the intrinsic bistability regime in exciton polariton condensates. Physical Review B, 2015, 92, .	3.2	3
172	Tracing Evolution of Angle-Wavelength Spectrum along the 40-m Postfilament in Corridor Air. Photonics, 2021, 8, 446.	2.0	3
173	Solitons near avoided mode crossings in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>Ï‡</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>2</mml:mn><mml:mo><mml:m nanowaveguides. Physical Review A, 2021, 104, .	2.9	3
174	Rotating and oscillating transverse patterns in an inhomogeneously broadened laser operating in a pair of doughnut modes. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1996, 8, 485-493.	0.9	2
175	Dynamic instabilities in the interaction of transverse modes in a class-B laser. Quantum Electronics, 1997, 27, 887-891.	1.0	2
176	Nonlinear dynamics of higher-order solitons near the oscillatory instability threshold. Physical Review E, 2001, 64, 056612.	2.1	2
177	Theory of Polariton Solitons in Semiconductor Microcavities. Springer Series in Optical Sciences, 2012, , 171-193.	0.7	2
178	<title>Modulation instability and decay of atomic Bose-Einstein condensates into solitonic trains</title>. , 2004, , .		1
179	Visualizing nonlinear dynamics in optical waveguides. , 2005, 5714, 160.		1
180	New horizons for Hawking radiation. Physics Magazine, 2010, 3, .	0.1	1

#	Article	IF	Citations
181	Nonlinear Optics and Solitons in Photonic Crystal Fibres. Springer Series in Optical Sciences, 2010, , 37-54.	0.7	1
182	Temporal dark polariton solitons. Optics Letters, 2016, 41, 1760.	3.3	1
183	Nonlinear gap modes and compactons in a lattice model for spin-orbit coupled exciton-polaritons in zigzag chains. Journal of Physics Communications, 2019, 3, 015001.	1.2	1
184	Moulding light on a ring. Communications Physics, 2021, 4, .	5.3	1
185	<title>Dynamics of transverse modes in a class-B laser</title>. , 1996, 2792, 242.		0
186	Interaction of dissipative localized structures in nonlinear optics. , 2002, , NLTuB1.		0
187	<title>Resonant parametric interaction of electromagnetic waves in quadratic nonlinear medium</title>. , 2006, , .		0
188	Scattering of continuous waves on solitons in photonic crystal fibers. , 2006, , .		0
189	Theory of the radiation trapping at the blue edge of supercontinuum and two-frequency quasi-solitons existing across the zero dispersion point. , 2007, , .		0
190	Localized structures of light in nonlinear devices with intracavity photonic bandgap material. , 2007, , .		0
191	Spatial solitons in periodic semiconductor-dielectric nano-structures. , 2009, , .		0
192	Localized cavity polaritons supported by the exciton field discontinuities. , 2009, , .		0
193	Spatio-Temporal Nonlinear Optics in Arrays of Subwavelength Waveguides. , 2011, , .		0
194	Evanescent coupling assisted four-wave mixing in a silicon-on-insulator directional coupler. Proceedings of SPIE, 2012, , .	0.8	0
195	Trapping of dispersive waves in solitonic resonators and its role in supercontinuum generation. , 2013, , .		0
196	Understanding the fission of higher-order solitons under the action of the higher-order dispersion. , 2013, , .		0
197	Introduction of optical Newton cradle model for understanding the N-solitons fission process under the action of higher order dispersion. , 2013, , .		0
198	Soliton families and resonant radiation in a micro-ring resonator near zero group-velocity dispersion: erratum. Optics Express, 2014, 22, 8068.	3.4	0

#	Article	IF	Citations
199	Ultra-low-power polariton solitons in semiconductor waveguides and microcavities. , 2016, , .		0
200	Topological edge solitons in polaritonic lattice. , 2017, , .		0
201	Modulational instability and solitons in microring resonators with localized pump. , 2017, , .		0
202	Topological insulator solitons in polariton graphene. , 2017, , .		0
203	Emission of Dispersive Waves from Solitons in Axially Varying Optical Fibers. , 2018, , 1-16.		0
204	Dark solitons, dispersive waves and their collision in an optical fiber. , 2018, , .		0
205	Kapitza Pendulum Effect with Overclocked Raman Comb Solitons in a Microring Resonator. , 2019, , .		0
206	Quadratic Solitons and their Interaction with Dispersive Waves in Lithium Niobate Nano-Waveguides. , 2019, , .		0
207	Soliton Combs Generation Due to Parametric up and Down Conversion in a Microring Resonator with Quadratic Nonlinearity. , 2019, , .		0
208	Controlling Microresonator Solitons with the Counter-Propagating Pump. Photonics, 2021, 8, 239.	2.0	0
209	Gap solitons supported by mode hybridisation in Lithium Niobate nano-waveguides. , 2021, , .		0
210	Four-wave mixing and Arnold tongues in high finesse Kerr ring microresonators. , 2021, , .		0
211	Soliton blockade in bi-directional Kerr microresonators. , 2021, , .		0
212	Soliton blockade and symmetry breaking in microresonators. , 2021, , .		0
213	Two-dimensional clusters of solitary structures in driven optical cavities. , 2002, , .		0
214	Four-wave mixing instabilities in ultra-small core fibers. , 2004, , .		0
215	Resonant Ï€- and 2Ï€-solitons in gas-filled Hollow-Core PCFs. , 2005, , .		0
216	Phase-sensitive resonance in scattering of continuous waves on femtosecond solitons in photonic crystal fibers. , 2006, , .		0

#	Article	IF	Citations
217	Phase-sensitive resonance in scattering of continuous waves on femtosecond solitons in photonic crystal fibers. Springer Series in Chemical Physics, 2007, , 217-219.	0.2	0
218	Gravity-like potential traps light and stretches optical supercontinuum. , 2007, , .		0
219	Gravity-Like Effects on Light and Fiber Supercontinuum. , 2009, , .		0
220	Solitons in Semiconductor Microcavities Operating in the Strong Coupling Regime. , 2009, , .		0
221	Cavity Polariton Solitons with Imprinted Nano Pattern. , 2010, , .		0
222	Dispersion of Nonlinearity and Modulation Instability in Subwavelength Semiconductor Waveguides. , 2013, , .		0
223	Bright Polariton Solitons and Soliton Trains. , 2013, , .		0
224	Multi-stability and polariton solitons in microcavity polaritonic wires. , 2014, , .		0
225	Competing neck and snake instabilities of vector Kerr and type-1 quadratic solitons.. , 1999, , .		0
226	Criterion for an oscillatory instability of multiparameter solitons. , 1999, , .		0
227	Conversion efficiency of vector scattering between solitons and dispersive waves. , 2016, , .		0
228	Emission of Dispersive Waves from Solitons in Axially Varying Optical Fibers. , 2019, , 301-316.		0
229	Temporal Two-Component Solitons in Lithium Niobate Nano-Waveguides: Interaction with Dispersive Waves and Raman Shifts. , 2020, , .		0