Demetrios Christodoulides

List of Publications by Year
in descending order

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284 papers	43,873 citations	5248 83 h-index	1928 207 g-index
286 all docs	286 docs citations	286 times ranked	10129 citing authors

#	Article	IF	Citations
1	Observation of parityâ€“time symmetry in optics. Nature Physics, 2010, 6, 192-195.	6.5	2,860
2	Observation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:math>-Symmetry Breaking in Complex Optical Potentials. Physical Review Letters, 2009, 103, 093902.	2.9	2,188
3	Observation of Accelerating Airy Beams. Physical Review Letters, 2007, 99, 213901.	2.9	1,940
4	Beam Dynamics in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:math>Symmetric Optical Lattices. Physical Review Letters, 2008, 100, 103904.	2.9	1,724
5	Accelerating finite energy Airy beams. Optics Letters, 2007, 32, 979.	1.7	1,633
6	Non-Hermitian physics and PT symmetry. Nature Physics, 2018, 14, 11-19.	6.5	1,620
7	Parityâ€“time synthetic photonic lattices. Nature, 2012, 488, 167-171.	13.7	1,589
8	Discretizing light behaviour in linear and nonlinear waveguide lattices. Nature, 2003, 424, 817-823.	13.7	1,500
9	Unidirectional Invisibility Induced by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:math>-Symmetric Periodic Structures. Physical Review Letters, 2011, 106, 213901.	2.9	1,496
10	Parity-timeâ€“symmetric microring lasers. Science, 2014, 346, 975-978.	6.0	1,262
11	Observation of two-dimensional discrete solitons in optically induced nonlinear photonic lattices. Nature, 2003, 422, 147-150.	13.7	1,245
12	Optical Solitons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:math>Periodic Potentials. Physical Review Letters, 2008, 100, 030402.	2.9	1,142
13	Discrete self-focusing in nonlinear arrays of coupled waveguides. Optics Letters, 1988, 13, 794.	1.7	1,118
14	Enhanced sensitivity at higher-order exceptional points. Nature, 2017, 548, 187-191.	13.7	1,115
15	Theory of coupled optical PT-symmetric structures. Optics Letters, 2007, 32, 2632.	1.7	1,104
16	Topological insulator laser: Experiments. Science, 2018, 359, .	6.0	949
17	Self-healing properties of optical Airy beams. Optics Express, 2008, 16, 12880.	1.7	834
18	Curved Plasma Channel Generation Using Ultraintense Airy Beams. Science, 2009, 324, 229-232.	6.0	776

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19	Anderson Localization and Nonlinearity in One-Dimensional Disordered Photonic Lattices. Physical Review Letters, 2008, 100, 013906.	2.9	774
20	Topological insulator laser: Theory. Science, 2018, 359, .	6.0	634
21	Anderson localization of light. Nature Photonics, 2013, 7, 197-204.	15.6	589
22	Airyâ€“Bessel wave packets as versatile linear light bullets. Nature Photonics, 2010, 4, 103-106.	15.6	585
23	Unidirectional nonlinear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="script">PT</mml:mi></mml:mrow></mml:math>-symmetric optical structures. Physical Review A, 2010, 82, .	1.0	571
24	Trapping and guiding microparticles with morphing autofocusing Airy beams. Optics Letters, 2011, 36, 2883.	1.7	551
25	Edge-Mode Lasing in 1D Topological Active Arrays. Physical Review Letters, 2018, 120, 113901.	2.9	406
26	Observation of abruptly autofocusing waves. Optics Letters, 2011, 36, 1842.	1.7	390
27	Spatiotemporal mode-locking in multimode fiber lasers. Science, 2017, 358, 94-97.	6.0	383
28	Optical spatial solitons: historical overview and recent advances. Reports on Progress in Physics, 2012, 75, 086401.	8.1	359
29	Conical Diffraction and Gap Solitons in Honeycomb Photonic Lattices. Physical Review Letters, 2007, 98, 103901.	2.9	331
30	Airy beams and accelerating waves: an overview of recent advances. Optica, 2019, 6, 686.	4.8	326
31	Controllable spatiotemporal nonlinear effects in multimode fibres. Nature Photonics, 2015, 9, 306-310.	15.6	322
32	Airy plasmon: a nondiffracting surface wave. Optics Letters, 2010, 35, 2082.	1.7	265
33	Discrete surface solitons. Optics Letters, 2005, 30, 2466.	1.7	262
34	Observation of Asymmetric Transport in Structures with Active Nonlinearities. Physical Review Letters, 2013, 110, 234101.	2.9	262
35	Observation of Discrete Surface Solitons. Physical Review Letters, 2006, 96, 063901.	2.9	255
36	Observation of Parity-Time Symmetry in Optically Induced Atomic Lattices. Physical Review Letters, 2016, 117, 123601.	2.9	250

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37	Self-Accelerating Self-Trapped Optical Beams. Physical Review Letters, 2011, 106, 213903.	2.9	221
38	Observation of optical solitons in PT-symmetric lattices. Nature Communications, 2015, 6, 7782.	5.8	218
39	Dynamically Encircling Exceptional Points: Exact Evolution and Polarization State Conversion. Physical Review Letters, 2017, 118, 093002.	2.9	215
40	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="script">PT</mml:mi></mml:mrow></mml:math>optical lattices and universality in beam dynamics. Physical Review A, 2010, 82, .	1.0	212
41	Self-organized instability in graded-index multimode fibres. Nature Photonics, 2016, 10, 771-776.	15.6	186
42	Non-Hermitian ringÂlaser gyroscopes with enhanced Sagnac sensitivity. Nature, 2019, 576, 70-74.	13.7	183
43	Kerr self-cleaning of femtosecond-pulsed beams in graded-index multimode fiber. Optics Letters, 2016, 41, 3675.	1.7	182
44	Anderson localization in optical waveguide arrays with off-diagonal coupling disorder. Optics Express, 2011, 19, 13636.	1.7	169
45	Spatiotemporal dynamics of multimode optical solitons. Optics Express, 2015, 23, 3492.	1.7	168
46	Flying couplers above spinning resonators generate irreversible refraction. Nature, 2018, 558, 569-572.	13.7	167
47	Ultrabroadband Dispersive Radiation by Spatiotemporal Oscillation of Multimode Waves. Physical Review Letters, 2015, 115, 223902.	2.9	158
48	Large area single-mode parityâ€“time-symmetric laser amplifiers. Optics Letters, 2012, 37, 764.	1.7	156
49	Observation of Two-Dimensional Surface Solitons. Physical Review Letters, 2007, 98, 123903.	2.9	154
50	PT-Symmetric Talbot Effects. Physical Review Letters, 2012, 109, 033902.	2.9	154
51	Supersymmetric Optical Structures. Physical Review Letters, 2013, 110, 233902.	2.9	154
52	$mathcal{PT}$ -Symmetric Periodic Optical Potentials. International Journal of Theoretical Physics, 2011, 50, 1019-1041.	0.5	152
53	Nonlocal Surface-Wave Solitons. Physical Review Letters, 2007, 98, 213901.	2.9	146
54	Coherent quantum transport in photonic lattices. Physical Review A, 2013, 87, .	1.0	146

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55	Fully Vectorial Accelerating Diffraction-Free Helmholtz Beams. Physical Review Letters, 2012, 109, 203902.	2.9	144
56	Supersymmetric mode converters. Nature Communications, 2014, 5, 3698.	5.8	143
57	Sensing with Exceptional Surfaces in Order to Combine Sensitivity with Robustness. Physical Review Letters, 2019, 122, 153902.	2.9	141
58	PT symmetry in a fractional SchrÃ¶dinger equation. Laser and Photonics Reviews, 2016, 10, 526-531.	4.4	136
59	Non-Hermitian and topological photonics: optics at an exceptional point. Nanophotonics, 2020, 10, 403-423.	2.9	135
60	Multimode Nonlinear Fiber Optics: Massively Parallel Numerical Solver, Tutorial, and Outlook. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-16.	1.9	130
61	Experimental Observation of Discrete Modulational Instability. Physical Review Letters, 2004, 92, 163902.	2.9	129
62	The dawn of non-Hermitian optics. Communications Physics, 2019, 2, .	2.0	121
63	Continuous and discrete SchrÃ¶dinger systems with parity-time-symmetric nonlinearities. Physical Review E, 2014, 89, 052918.	0.8	117
64	High-density waveguide superlattices with low crosstalk. Nature Communications, 2015, 6, 7027.	5.8	116
65	Supersymmetry-generated complex optical potentials with real spectra. Physical Review A, 2013, 87, .	1.0	113
66	Abruptly autofocusing and autodefocusing optical beams with arbitrary caustics. Physical Review A, 2012, 85, .	1.0	112
67	Mechanisms of spatiotemporal mode-locking. Nature Physics, 2020, 16, 565-570.	6.5	112
68	Observation of self-accelerating Bessel-like optical beams along arbitrary trajectories. Optics Letters, 2013, 38, 498.	1.7	111
69	Laser-assisted guiding of electric discharges around objects. Science Advances, 2015, 1, e1400111.	4.7	110
70	Surface lattice solitons. Optics Letters, 2006, 31, 2774.	1.7	109
71	On-chip generation of high-order single-photon W-states. Nature Photonics, 2014, 8, 791-795.	15.6	109
72	Soliton dynamics and self-induced transparency in nonlinear nanosuspensions. Optics Express, 2007, 15, 10207.	1.7	108

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73	Curved singular beams for three-dimensional particle manipulation. Scientific Reports, 2015, 5, 12086.	1.6	107
74	Constant-intensity waves and their modulation instability in non-Hermitian potentials. Nature Communications, 2015, 6, 7257.	5.8	105
75	Observation of Bloch oscillations in complex PT-symmetric photonic lattices. Scientific Reports, 2015, 5, 17760.	1.6	104
76	Nonlinear reversal of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric phase transition in a system of coupled semiconductor microring resonators. Physical Review A, 2015, 92, .	1.0	99
77	Optical mesh lattices with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">PT</mml:mi></mml:math>symmetry. Physical Review A, 2012, 86, .	1.0	97
78	Externally refuelled optical filaments. Nature Photonics, 2014, 8, 297-301.	15.6	97
79	Bragg solitons in nonlinear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric periodic potentials. Physical Review A, 2012, 86, .	1.0	95
80	Single mode lasing in transversely multiâ€moded PTâ€symmetric microring resonators. Laser and Photonics Reviews, 2016, 10, 494-499.	4.4	94
81	Conductive Coupling of Split Ring Resonators: A Path to THz Metamaterials with Ultrasharp Resonances. Physical Review Letters, 2014, 112, 183903.	2.9	93
82	Exceptional-point dynamics in photonic honeycomb lattices withPTsymmetry. Physical Review A, 2012, 85, .	1.0	90
83	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric optical potentials in a coherent atomic medium. Physical Review A, 2013, 88, .	1.0	86
84	Thermodynamic theory of highly multimoded nonlinear optical systems. Nature Photonics, 2019, 13, 776-782.	15.6	85
85	Optical diametric drive acceleration through actionâ€“reaction symmetry breaking. Nature Physics, 2013, 9, 780-784.	6.5	83
86	Implementation of quantum and classical discrete fractional Fourier transforms. Nature Communications, 2016, 7, 11027.	5.8	81
87	Optical Nonlinearities and Enhanced Light Transmission in Soft-Matter Systems with Tunable Polarizabilities. Physical Review Letters, 2013, 111, 218302.	2.9	80
88	Experimental observation of a photonic hook. Applied Physics Letters, 2019, 114, .	1.5	80
89	Fluctuations and noise-limited sensing near the exceptional point of parity-time-symmetric resonator systems. Optica, 2018, 5, 1342.	4.8	80
90	Bessel X waves in two- and three-dimensional bidispersive optical systems. Optics Letters, 2004, 29, 1446.	1.7	79

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91	Observation of discrete quadratic surface solitons. Optics Express, 2006, 14, 5508.	1.7	79
92	Nonlinear optical response of colloidal suspensions. Optics Express, 2009, 17, 10277.	1.7	79
93	Supersymmetric laser arrays. Science, 2019, 363, 623-626.	6.0	78
94	SUSY-inspired one-dimensional transformation optics. Optica, 2014, 1, 89.	4.8	76
95	Experimental Observation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>P</mml:mi><mml:mi>T</mml:mi></mml:math> Symmetry Breaking near Divergent Exceptional Points. Physical Review Letters, 2019, 123, 193901.	2.9	75
96	Riding along an Airy beam. Nature Photonics, 2008, 2, 652-653.	15.6	73
97	Einstein-Podolsky-Rosen Spatial Entanglement in Ordered and Anderson Photonic Lattices. Physical Review Letters, 2013, 110, 150503.	2.9	67
98	Plasmonic Resonant Solitons in Metallic Nanosuspensions. Nano Letters, 2014, 14, 2498-2504.	4.5	67
99	All-optical routing and switching for three-dimensional photonic circuitry. Scientific Reports, 2011, 1, 94.	1.6	66
100	Winding around non-Hermitian singularities. Nature Communications, 2018, 9, 4808.	5.8	65
101	Airy plasmons: nonâ€diffracting optical surface waves. Laser and Photonics Reviews, 2014, 8, 221-232.	4.4	62
102	Causality effects on accelerating light pulses. Optics Express, 2011, 19, 23132.	1.7	61
103	Light transport in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-invariant photonic structures with hidden symmetries. Physical Review A, 2014, 90, .	1.0	58
104	Accelerated nonlinear interactions in graded-index multimode fibers. Nature Communications, 2019, 10, 1638.	5.8	58
105	Supersymmetric laser arrays. Physical Review A, 2015, 92, .	1.0	56
106	Perfect transfer of path-entangled photons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:math>photonic lattices. Physical Review A, 2013, 87, .	1.0	55
107	Chiral state conversion without encircling an exceptional point. Physical Review A, 2017, 96, .	1.0	52
108	Versatile supercontinuum generation in parabolic multimode optical fibers. Optics Express, 2017, 25, 9078.	1.7	52

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109	Supermodes in Coupled Multi-Core Waveguide Structures. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 196-207.	1.9	51
110	Direct observations of thermalization to a Rayleighâ€“Jeans distribution in multimode optical fibres. Nature Physics, 2022, 18, 685-690.	6.5	50
111	Generating photon-encoded<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>W</mml:mi></mml:math>states in multiport waveguide-array systems. Physical Review A, 2013, 87, .	1.0	48
112	Hanbury Brown and Twiss correlations of Anderson localized waves. Physical Review A, 2011, 84, .	1.0	46
113	Non-Hermitian engineering of single mode two dimensional laser arrays. Scientific Reports, 2016, 6, 33253.	1.6	45
114	Wave propagation in waveguide arrays with alternating positive and negative couplings. Physical Review A, 2010, 81, .	1.0	44
115	Dark-state lasers: mode management using exceptional points. Optics Letters, 2016, 41, 3049.	1.7	44
116	Direct Generation of Tunable Orbital Angular Momentum Beams in Microring Lasers with Broadband Exceptional Points. ACS Photonics, 2019, 6, 1895-1901.	3.2	44
117	Observation of supersymmetric scattering in photonic lattices. Optics Letters, 2014, 39, 6130.	1.7	43
118	Integrated multi-port circulators for unidirectional optical information transport. Scientific Reports, 2017, 7, 2129.	1.6	42
119	Robust propagation of pin-like optical beam through atmospheric turbulence. APL Photonics, 2019, 4, 076103.	3.0	42
120	On-chip non-reciprocal optical devices based on quantum inspired photonic lattices. Applied Physics Letters, 2013, 103, .	1.5	41
121	Emergence of Type-II Dirac Points in Graphynelike Photonic Lattices. Physical Review Letters, 2017, 119, 113901.	2.9	41
122	Unidirectional light emission in PT-symmetric microring lasers. Optics Express, 2018, 26, 27153.	1.7	41
123	Gain-induced topological response via tailored long-range interactions. Nature Physics, 2021, 17, 704-709.	6.5	40
124	Tailoring the correlation and anticorrelation behavior of path-entangled photons in Glauber-Fock oscillator lattices. Physical Review A, 2012, 85, .	1.0	38
125	Thermodynamic conditions governing the optical temperature and chemical potential in nonlinear highly multimoded photonic systems. Optics Letters, 2019, 44, 3936.	1.7	36
126	OBSERVATION OF ONE- AND TWO-DIMENSIONAL DISCRETE SURFACE SPATIAL SOLITONS. Journal of Nonlinear Optical Physics and Materials, 2007, 16, 401-426.	1.1	35

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127	Optical modes at the interface between two dissimilar discrete meta-materials. Optics Express, 2007, 15, 4663.	1.7	35
128	Anderson localization and colocalization of spatially entangled photons. Physical Review A, 2012, 86, .	1.0	35
129	Guiding and nonlinear coupling of light in plasmonic nanosuspensions. Optics Letters, 2016, 41, 3817.	1.7	35
130	Synthesizing multi-dimensional excitation dynamics and localization transition in one-dimensional lattices. Nature Photonics, 2020, 14, 76-81.	15.6	35
131	Nonlinear optical dynamics in nonideal gases of interacting colloidal nanoparticles. Physical Review A, 2009, 80, .	1.0	34
132	Local<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">PT</mml:mi></mml:math>invariance and supersymmetric parametric oscillators. Physical Review A, 2012, 86, .	1.0	34
133	Observation of chiral state transfer without encircling an exceptional point. Nature, 2022, 605, 256-261.	13.7	34
134	Realizing spin Hamiltonians in nanoscale active photonic lattices. Nature Materials, 2020, 19, 725-731.	13.3	32
135	Power-law scaling of extreme dynamics near higher-order exceptional points. Physical Review A, 2018, 97, .	1.0	31
136	Discrete beam acceleration in uniform waveguide arrays. Physical Review A, 2011, 84, .	1.0	30
137	Gain- or loss-induced localization in one-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric tight-binding models. Physical Review A, 2014, 89, .	1.0	30
138	A systematic analysis of parametric instabilities in nonlinear parabolic multimode fibers. APL Photonics, 2019, 4, .	3.0	30
139	Room temperature electrically pumped topological insulator lasers. Nature Communications, 2021, 12, 3434.	5.8	30
140	Statistical mechanics of weakly nonlinear optical multimode gases. Optics Letters, 2020, 45, 1651.	1.7	30
141	Topological modes in a laser cavity through exceptional state transfer. Science, 2022, 375, 884-888.	6.0	30
142	Bimorphic Floquet topological insulators. Nature Materials, 2022, 21, 634-639.	13.3	30
143	2D Solitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:mrow></mml:math> -Symmetric Photonic Lattices. Physical Review Letters, 2019, 123, 253903.	2.9	28
144	Statistical parity-time-symmetric lasing in an optical fibre network. Nature Communications, 2017, 8, 1359.	5.8	27

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145	Power thresholds of families of discrete surface solitons. Optics Letters, 2007, 32, 3098.	1.7	26
146	Nonlinear multimode photonics: nonlinear optics with many degrees of freedom. Optica, 2022, 9, 824.	4.8	26
147	Method of images in optical discrete systems. Physical Review E, 2006, 73, 036616.	0.8	25
148	Two-dimensional discrete Ginzburg-Landau solitons. Physical Review A, 2007, 76, .	1.0	25
149	Optical spatial solitons at the interface between two dissimilar periodic media: theory and experiment. Optics Express, 2008, 16, 10480.	1.7	25
150	Multimode Mamyshev oscillator. Optics Letters, 2022, 47, 46.	1.7	25
151	Nonlinear Waves in Subwavelength Waveguide Arrays: Evanescent Bands and the â€œPhoenix Solitonâ€• Physical Review Letters, 2009, 102, 163902.	2.9	21
152	Observation of Weyl exceptional rings in thermal diffusion. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2110018119.	3.3	21
153	Instant and efficient second-harmonic generation and downconversion in unprepared graded-index multimode fibers. Optics Letters, 2017, 42, 3478.	1.7	19
154	Tilted-Pulse-Front Space-Time Wave Packets. ACS Photonics, 2019, 6, 475-481.	3.2	19
155	Topological protection versus degree of entanglement of two-photon light in photonic topological insulators. Nature Communications, 2021, 12, 1974.	5.8	19
156	Robustness and mode selectivity in parity-time (PT) symmetric lasers. Scientific Reports, 2017, 7, 10756.	1.6	18
157	Electrically Pumped Microring Parity-Time-Symmetric Lasers. Proceedings of the IEEE, 2020, 108, 827-836.	16.4	17
158	The Complex Charge Paradigm: A New Approach for Designing Electromagnetic Wavepackets. Advanced Science, 2020, 7, 1903377.	5.6	17
159	Quantum optics as a tool for photonic lattice design. Physica Scripta, 2015, 90, 068014.	1.2	16
160	Twofold<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math>symmetry in doubly exponential optical lattices. Physical Review A, 2016, 93, .	1.0	16
161	Transition between self-focusing and self-defocusing in a nonlocally nonlinear system. Physical Review A, 2019, 99, .	1.0	16
162	Observation of twist-induced geometric phases and inhibition of optical tunneling via Aharonov-Bohm effects. Science Advances, 2019, 5, eaau8135.	4.7	16

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163	Design Considerations for Single-Mode Microring Lasers Using Parity-Time-Symmetry. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 12-18.	1.9	15
164	Asymmetric acoustic energy transport in non-Hermitian metamaterials. Journal of the Acoustical Society of America, 2019, 146, 863-872.	0.5	15
165	LOCALIZED MODES IN A CIRCULAR ARRAY OF COUPLED NONLINEAR OPTICAL WAVEGUIDES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1739-1752.	0.7	14
166	Random-phase surface-wave solitons in nonlocal nonlinear media. Optics Letters, 2007, 32, 2450.	1.7	14
167	Discrete-like diffraction dynamics in free space. Optics Express, 2013, 21, 17951.	1.7	14
168	Propagation and perfect transmission in three-waveguide axially varying couplers. Physical Review A, 2014, 89, .	1.0	14
169	Constant Intensity Supermodes in Non-Hermitian Lattices. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 42-47.	1.9	13
170	Symmetry-controlled edge states in the type-II phase of Dirac photonic lattices. Nature Communications, 2020, 11, 2074.	5.8	13
171	Thermalization Dynamics of Nonlinear Non-Hermitian Optical Lattices. Physical Review Letters, 2022, 128, .	2.9	13
172	Linear response theory of open systems with exceptional points. Nature Communications, 2022, 13, .	5.8	13
173	Self-structuring of stable dissipative breathing vortex solitons in a colloidal nanosuspension. Optics Express, 2017, 25, 10090.	1.7	12
174	Controlling Disorder by Electric-Field-Directed Reconfiguration of Nanowires To Tune Random Lasing. ACS Nano, 2018, 12, 7343-7351.	7.3	12
175	Thermalization of Lightâ€™s Orbital Angular Momentum in Nonlinear Multimode Waveguide Systems. Physical Review Letters, 2022, 128, 123901.	2.9	12
176	Integrable nonlinear parity-time-symmetric optical oscillator. Physical Review E, 2016, 93, 042219.	0.8	11
177	Topological Aharonov-Bohm suppression of optical tunneling in twisted nonlinear multicore fibers. Physical Review A, 2017, 96, .	1.0	11
178	Engineering interaction dynamics in active resonant photonic structures. APL Photonics, 2021, 6, 050804.	3.0	11
179	Localized waves with spherical harmonic symmetries. Physical Review A, 2012, 86, .	1.0	10
180	Interferometric control of the photon-number distribution. APL Photonics, 2017, 2, .	3.0	10

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181	Integrative quantitative-phase and airy light-sheet imaging. Scientific Reports, 2020, 10, 20150.	1.6	10
182	Fundamental entropic processes in the theory of optical thermodynamics. Physical Review A, 2021, 103, .	1.0	10
183	General theory and observation of Cherenkov radiation induced by multimode solitons. Communications Physics, 2021, 4, .	2.0	10
184	Entropic thermodynamics of nonlinear photonic chain networks. Communications Physics, 2020, 3, .	2.0	9
185	Optical revivals in nonuniform supersymmetric photonic arrays. Optics Letters, 2016, 41, 372.	1.7	8
186	Flexible <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:mrow></mml:math> -Symmetric Optical Metasurfaces. Physical Review Applied, 2020, 13, .	1.5	8
187	Weak beam self-cleaning of femtosecond pulses in the anomalous dispersion regime. Optics Letters, 2021, 46, 3312.	1.7	8
188	Thermodynamic description of the near- and far-field intensity patterns emerging from multimode nonlinear waveguide arrays. Physical Review A, 2022, 105, .	1.0	8
189	Complex Edge-State Phase Transitions in 1D Topological Laser Arrays. , 2018, , .		7
190	Dynamics of accelerating Bessel solutions of Maxwellâ€™s equations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 2047.	0.8	7
191	Bosonic discrete supersymmetry for quasi-two-dimensional optical arrays. Photonics Research, 2019, 7, 1240.	3.4	7
192	Generalized SchrÃ¶dinger cat states and their classical emulation. Physical Review A, 2016, 93, .	1.0	6
193	Design Considerations for Single-Mode Microring Lasers Using Parityâ€“Time Symmetry. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 1-7.	1.9	6
194	Enhanced modulation characteristics in broken symmetric coupled microring lasers. Optics Express, 2020, 28, 19608.	1.7	6
195	Optical Thouless pumping transport and nonlinear switching in a topological low-dimensional discrete nematic liquid crystal array. Physical Review A, 2022, 105, .	1.0	6
196	A squeeze-like operator approach to position-dependent mass in quantum mechanics. Journal of Mathematical Physics, 2014, 55, .	0.5	5
197	Hanbury Brown and Twiss anticorrelation in disordered photonic lattices. Physical Review A, 2016, 94, .	1.0	5
198	Fixed-point attractor for chirp in nonlinear waveguide arrays. Physical Review A, 2012, 85, .	1.0	4

#	Article	IF	Citations
199	Topological Insulator Laser. , 2018, , .		4
200	Optical diodes in nonlinear structures with parity-time symmetries. Proceedings of SPIE, 2011, , .	0.8	3
201	PT symmetry in optics and photonics. Proceedings of SPIE, 2014, , .	0.8	3
202	Passive PT-Symmetric Metasurfaces With Directional Field Scattering Characteristics. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 107-114.	1.9	3
203	Topological Haldane Lattice. , 2020, , .		3
204	Nanolaser-based emulators of spin Hamiltonians. Nanophotonics, 2020, 9, 4193-4198.	2.9	3
205	Nonlinear Photonics in AlGaAs Photonics Nanowires: Self Phase and Cross Phase Modulation. , 2007, , .		2
206	Looking into a self-distorting world. Nature Photonics, 2009, 3, 195-197.	15.6	2
207	Linear modulational stability analysis of Ginzburgâ€“Landau dissipative vortices. Optical and Quantum Electronics, 2016, 48, 1.	1.5	2
208	Tunable Orbital Angular Momentum Microring Laser. , 2018, , .		2
209	Nonlinear scattering by non-Hermitian multilayers with saturation effects. Physical Review E, 2021, 103, 052205.	0.8	2
210	Introduction to Solitons in Photonic Lattices. Springer Series in Optical Sciences, 2010, , 73-99.	0.5	2
211	Omnipolarizer Action via Encirclement of Exceptional Points. , 2020, , .		2
212	Supersymmetric mode converters. , 2014, , .		2
213	Optical Thermalization in Ultrashort Pulse Propagation in Multimode Fiber. , 2020, , .		2
214	Branching Highâ€Order Exceptional Points in Nonâ€Hermitian Optical Systems. Laser and Photonics Reviews, 2022, 16, .	4.4	2
215	Cusp solitons in exponentially nonlinear nanosuspensions. , 2007, , .		1
216	Design of broadband anti-reflective metasurfaces based on an effective medium approach. Proceedings of SPIE, 2017, , .	0.8	1

#	Article	IF	Citations
217	Discrete Spatial Surface Solitons at the Interface Between Dissimilar Arrays. , 2007, , .		1
218	Beyond P T-symmetry: SUSY-mediated real spectra in complex refractive index landscapes. , 2014, , .		1
219	Implementation of Quantum and Classical Discrete Fractional Fourier Transforms. , 2015, , .		1
220	Enhanced third order nonlinear effects in AlGaAs nanowires. , 2006, , .		0
221	Excitation of discrete X-waves in nonlinear waveguide arrays. , 2006, , .		0
222	Discrete nonlinear X-waves in waveguide arrays. , 2006, , .		0
223	Boundary force effects exerted on solitons in nonlinear media with a very large range of nonlocality. , 2006, , .		0
224	Nonlinear Surface Waves at the Interface of Discrete and Continuous Media. , 2006, , .		0
225	Observation of surface Kerr discrete solitons. , 2006, , .		0
226	Lattice surface solitons. , 2006, , .		0
227	Nonlinear photonic quasicrystals: Observation of tunneling-transport, soliton formation, and defect dynamics. , 2006, , .		0
228	Infinite-range interactions between solitons in highly-nonlocal nonlinear media. , 2006, , .		0
229	Solitons in dispersion-inverted AlGaAs nanowires. , 2006, , .		0
230	Discrete quadratic interface solitons. , 2006, , .		0
231	Power Threshold of Discrete Surface Solitons. , 2007, , .		0
232	Nonlocal surface-wave solitons. , 2007, , .		0
233	Cross-Phase modulation in AlGaAs photonic nanowires. , 2007, , .		0
234	Cross-Phase Modulation in AlGaAs Photonic Nanowires. , 2007, , .		0

#	Article	IF	Citations
235	Diffraction and trapping of light at the interface between two discrete media. , 2007, , .		0
236	Soliton transitions in optical lattices. , 2007, , .		0
237	Two-Dimensional Surface Lattice Solitons. Optics and Photonics News, 2007, 18, 42.	0.4	0
238	Nonlinear Two-photon photodetection and autocorrelation in a GaAs MQW waveguide. , 2009, , .		0
239	Continuous wave second harmonic generation in ultra-compact AlGaAs photonic wire waveguides. , 2010, , .		0
240	Displaced Fock states and photon correlations in Glauber-Fock photonic lattices. , 2011, , .		0
241	Taming the flow of light via Parity-Time Symmetry. , 2013, , .		0
242	Evolution dynamics of Helmholtz Bessel beams. , 2013, , .		0
243	Observation of anomalous diffusion in a 1D optical random dimer. , 2013, , .		0
244	SUSY fibers for integrated optical angular momentum multiplexing. , 2013, , .		0
245	Diffraction resisting zero-order Bessel-like and higher-order vortex Bessel-like beams with arbitrary trajectories. , 2013, , .		0
246	Complex beam dynamics in PT-symmetric optical lattices. , 2013, , .		0
247	Observation of supersymmetric dynamics in photonic lattices. , 2014, , .		0
248	Dielectric and metallic nanosuspensions with tunable optical nonlinearities. , 2014, , .		0
249	Highly Efficient Eigenstate-Assisted Long-Distance Quantum State Transfer in Photonic Lattices. , 2014, , .		0
250	Supersymmetric optical waveguides. Proceedings of SPIE, 2014, , .	0.8	0
251	Supersymmetry and transformation optics on the line. , 2015, , .		0
252	Supersymmetric mode converters. Proceedings of SPIE, 2015, , .	0.8	0

#	Article	IF	Citations
253	Supersymmetric photonics: From mode converters to a new class of transformation optics. , 2015, , .		0
254	Supersymmetric photonics: Mode conversion, scattering and transformation optics. , 2015, , .		0
255	Supersymmetric Laser Arrays. , 2015, , .		0
256	Nonlinear reversal of PT-symmetric phase transition in a system of coupled micro-ring cavities. Proceedings of SPIE, 2016, , .	0.8	0
257	Non-Hermitian microring systems: PT-symmetric lasers, mode management and enhanced emission efficiency. , 2016, , .		0
258	Enhanced sensitivity in PT-symmetric coupled resonators. Proceedings of SPIE, 2017, , .	0.8	0
259	Experimental realization of exact mapping from multi-dimensional to planar micro-photonic lattices. , 2017, , .		0
260	Experimental Realization of Supersymmetric Laser. , 2018, , .		0
261	Establishing a rigorous relation between thermodynamic and electrodynamic pressures in highly multimoded nonlinear dielectric waveguides. , 2021, , .		0
262	Optical Thermalization in Highly Multimoded Integrated Nonlinear 2D Photonic Membrane Systems. , 2021, , .		0
263	Majorana Bound State Cavities. , 2021, , .		0
264	Room temperature electrically pumped topological insulator laser based on quantum spin Hall effect. , 2021, , .		0
265	Thermalization of orbital angular momentum in highly multimoded nonlinear optical fibers. , 2021, , .		0
266	Towards a Common Path Photonic Emulator for Dynamically Encircling an Exceptional Point. , 2021, , .		0
267	Dependence of Discrete Surface Soliton Power Thresholds on Inter-Channel Coupling and Distance into Array. , 2007, , .		0
268	Discrete Spatial Surface Solitons at the Interface Between Dissimilar Arrays. , 2007, , .		0
269	Lattice Surface Solitons. , 2008, , .		0
270	Evolution dynamics of vectorial Bessel beams. , 2013, , .		0

#	Article	IF	Citations
271	PT symmetry in optics. , 2014, , .		0
272	Guiding and Coupling Light through Nonlinear Plasmonic Nanosuspensions. , 2016, , .		0
273	Probing the scattering characteristics of supersymmetric photonic structures. , 2016, , .		0
274	Implementation of quantum discrete fractional Fourier transform. , 2017, , .		0
275	Experimental Realization of Magnetic-Free Topological Insulator Laser. , 2018, , .		0
276	Supersymmetric Laser Arrays. , 2019, , .		0
277	Bimodal Directional Laser via Dynamically Encircling an Exceptional Point. , 2019, , .		0
278	Optical thermodynamic properties of nonlinear topological Haldane lattices. , 2020, , .		0
279	Brightness Enhancement in Multimode Nonlinear Systems via Thermodynamic Optical Cooling. , 2020, , .		0
280	Electrically Pumped Topological Insulator Lasers. , 2020, , .		0
281	Optical Thermalization via Kerr Nonlinearity in Spatiotemporal Pulse Propagation. , 2020, , .		0
282	Thermodynamic pressure emerging from highly multimoded nonlinear optical systems. , 2020, , .		0
283	Bimodal Directional Laser. , 2020, , .		0
284	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>K</mml:mi></mml:math> -space thermodynamic funneling of light via heat exchange. Physical Review A, 2022, 105, .	1.0	0