Yiqi Zhang

List of Articles by Year in descending order

165 PR articles	4,759 PR citations	95627 36 PR h-index	99897 67 g-index
169 documents	4920 doc citations	107153 37 h-index	2919 citing authors

#	Article	IF	Citations
1	Chiral Bulk Solitons in Photonic Graphene with Decorated Boundaries. Laser and Photonics Reviews, 2025, 19, .	9.2	1
2	Modulating a photonic graphene lattice by the Lorentz-like transformation. Physical Review A, 2025, 111, .	2.7	1
3	Observation of Nonlinear Topological Corner States Originating from Different Spectral Charges. Advanced Materials, 2025, 37, .	24.5	3
4	Observation of nonlinear edge states in an interacting atomic trimer array. Light: Science and Applications, 2025, 14, .	19.9	2
5	Bound-in-continuum-like corner states in the type-II Dirac photonic lattice. Chaos, Solitons and Fractals, 2024, 181, 114719.	4.8	3
6	Topological edge states in a photonic Floquet insulator with unpaired Dirac cones. Photonics Research, 2024, 12, 2078.	6.4	4
7	P T-symmetric photonic lattices with type-II Dirac cones. Optics Letters, 2024, 49, 4110.	3.0	2
8	Twoâ€dimensional flatâ€band solitons in superhoneycomb lattices. Nanophotonics, 2024, 13, 4047-4056.	6.2	5
9	Ï€ mode lasing in the non-Hermitian Floquet topological system. APL Photonics, 2024, 9, .	4.3	5
10	Observation of nonlinear fractal higher order topological insulator. Light: Science and Applications, 2024, 13, .	19.9	25
11	Floquet topological insulators with hybrid edges. Chaos, Solitons and Fractals, 2023, 166, 113010.	4.8	6
12	Nonlinear photonic disclination states. APL Photonics, 2023, 8, .	4.3	20
13	Ï€ -mode solitons in photonic Floquet lattices. Physical Review A, 2023, 107, .	2.7	25
14	Zero-energy edge states and solitons in strained photonic graphene. Physical Review A, 2023, 107, .	2.7	11
15	Generation of diffraction-free Bessel beams based on combined axicons. Optics and Laser Technology, 2023, 164, 109548.	4.9	11
16	Vector valley Hall edge solitons in distorted type-II Dirac photonic lattices. Optics Express, 2023, 31, 20812.	3.0	6
17	Floquet Edge Solitons in Modulated Trimer Waveguide Arrays. Physical Review Applied, 2023, 20, .	3.9	10
18	Observation of Ï€	9.5	32

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19	Observation of nonlinear disclination states. Light: Science and Applications, 2023, 12, .	19.9	48
20	Theory of nonlinear corner states in photonic fractal lattices. Nanophotonics, 2023, 12, 3829-3838.	6.2	13
21	Suppression of Secondary Electron Emission from Nickel Surface by Graphene Composites Based on First-Principles Method. Nanomaterials, 2023, 13, 2550.	4.0	2
22	Diffraction-free distance enhancement of Bessel beams based on spatial domain phase modulation. Journal of the Optical Society of America B: Optical Physics, 2023, 40, 2906.	1.8	1
23	Experimental demonstration of optical Bloch oscillation in electromagnetically induced photonic lattices. Fundamental Research, 2022, 2, 401-404.	3.8	14
24	Vector valley Hall edge solitons in the photonic lattice with type-II Dirac cones. Frontiers of Physics, 2022, 17, .	4.3	15
25	Vector valley Hall edge solitons in superhoneycomb lattices. Chaos, Solitons and Fractals, 2022, 161, 112364.	4.8	14
26	Deterministic bulk-boundary correspondences for skin and edge modes in a general two-band non-Hermitian system. Physical Review Research, 2022, 4, .	4.0	12
27	Topological Edge States and Solitons on a Dynamically Tunable Domain Wall of Two Opposing Helical Waveguide Arrays. ACS Photonics, 2021, 8, 1077-1084.	6.0	15
28	Theory of topological corner state laser in Kagome waveguide arrays. APL Photonics, 2021, 6, .	4.3	49
29	Nonlinear second-order photonic topological insulators. Nature Physics, 2021, 17, 995-1000.	16.0	213
30	Dark topological valley Hall edge solitons. Nanophotonics, 2021, 10, 3559-3566.	6.2	28
31	Nonlinear topological valley Hall edge states arising from type-II Dirac cones. Advanced Photonics, 2021, 3, .	13.1	59
32	Valley Hall edge solitons in a photonic graphene. Optics Express, 2021, 29, 39755.	3.0	18
33	Topological states in the super-SSH model. Optics Express, 2021, 29, 42827.	3.0	53
34	Superior Deep-Ultraviolet Source Pumped by an Electron Beam for NLOS Communication. IEEE Transactions on Electron Devices, 2020, 67, 3391-3394.	2.7	12
35	Topological Valley Hall Edge State Lasing. Laser and Photonics Reviews, 2020, 14, .	9.2	53
36	Manipulation of Airy Beams in Dynamic Parabolic Potentials. Annalen Der Physik, 2020, 532, .	2.6	11

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37	Flatband Line States in Photonic Superâ€Honeycomb Lattices. Advanced Optical Materials, 2020, 8, .	7.0	34
38	Observation of edge solitons in photonic graphene. Nature Communications, 2020, 11, .	13.7	129
39	Parametric Typeâ€I Dirac Photonic Lattices. Advanced Quantum Technologies, 2020, 3, .	4.2	10
40	Effect of air-frying conditions on the quality attributes and lipidomic characteristics of surimi during processing. Innovative Food Science and Emerging Technologies, 2020, 60, 102305.	6.7	83
41	Nonlinear higher-order polariton topological insulator. Optics Letters, 2020, 45, 4710.	3.0	35
42	Rabi oscillations of azimuthons in weakly nonlinear waveguides. Advanced Photonics, 2020, 2, 1.	13.1	10
43	Temporally Correlated Narrowband Biphoton Interference Based on Machâ€“Zehnder Interferometer. Annalen Der Physik, 2019, 531, .	2.6	1
44	Conical Diffraction from Approximate Dirac Cone States in a Superhoneycomb Lattice. Annalen Der Physik, 2019, 531, .	2.6	10
45	Talbot carpets by rogue waves of extended nonlinear SchrÃ¶dinger equations. Nonlinear Dynamics, 2019, 97, 1215-1225.	5.0	5
46	Particlelike Behavior of Topological Defects in Linear Wave Packets in Photonic Graphene. Physical Review Letters, 2019, 122, .	8.2	65
47	Interface states in polariton topological insulators. Physical Review A, 2019, 99, .	2.7	26
48	Floquet topological insulator laser. APL Photonics, 2019, 4, .	4.3	31
49	Topological insulator properties of photonic kagome helical waveguide arrays. Results in Physics, 2019, 12, 996-1001.	4.0	25
50	Generating Lieb and super-honeycomb lattices by employing the fractional Talbot effect. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 862.	1.8	14
51	Asymmetric conical diffraction in dislocated edge-centered square lattices. Optics Express, 2019, 27, 6300.	3.0	12
52	Rabi-like oscillation of photonic topological valley Hall edge states. Optics Letters, 2019, 44, 3342.	3.0	21
53	Asymmetric conical diffraction in dislocated edge-centered square lattices: erratum. Optics Express, 2019, 27, 24498.	3.0	0
54	Non-Hermitian optics in atomic systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 072001.	1.8	44

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55	Localized Airy Wave Packets in a Self-Defocusing Kerr Medium. IEEE Photonics Journal, 2018, 10, 1-9.	1.8	2
56	Optical Bloch Oscillations of a Dual Airy Beam. Annalen Der Physik, 2018, 530, .	2.6	5
57	Observation of electromagnetically induced Talbot effect in an atomic system. Physical Review A, 2018, 97, .	2.7	38
58	Dark ring soliton in two-dimensional nonlinear self-defocusing medium. Optik, 2018, 156, 447-452.	2.9	6
59	Fractionâ€Dimensional Accessible Solitons in a Parityâ€Time Symmetric Potential. Annalen Der Physik, 2018, 530, .	2.6	14
60	Inhibition of tunneling and edge state control in polariton topological insulators. APL Photonics, 2018, 3, 120801.	4.3	15
61	Controllable photonic crystal with periodic Raman gain in a coherent atomic medium. Optics Letters, 2018, 43, 919.	3.0	17
62	Controllable optical rogue waves via nonlinearity management. Optics Express, 2018, 26, 7587.	3.0	30
63	Parityâ€Timeâ€Symmetric Optical Lattice with Alternating Gain and Loss Atomic Configurations. Laser and Photonics Reviews, 2018, 12, .	9.2	59
64	Resonant Edgeâ€State Switching in Polariton Topological Insulators. Laser and Photonics Reviews, 2018, 12, .	9.2	31
65	The fractional dimensional spatiotemporal accessible solitons supported by PT-symmetric complex potential. Annals of Physics, 2017, 378, 432-439.	2.6	4
66	Two-dimensional Talbot self-imaging via Electromagnetically induced lattice. Scientific Reports, 2017, 7, .	3.4	18
67	Unveiling the relationship between optical bistability and vacuum Rabi splitting. Europhysics Letters, 2017, 117, 53001.	1.8	12
68	New edge-centered photonic square lattices with flat bands. Annals of Physics, 2017, 382, 160-169.	2.6	23
69	Nonparaxial Accelerating Electron Beams. IEEE Journal of Quantum Electronics, 2017, 53, 1-6.	1.3	0
70	Transport properties in the photonic superâ€honeycomb lattice â€” a hybrid fermionic and bosonic system. Annalen Der Physik, 2017, 529, .	2.6	44
71	Enhanced intensity-difference squeezing via energy-level modulations in hot atomic media. Physical Review A, 2017, 96, .	2.7	58
72	Controlled Correlation and Squeezing in Pr3+:Y2SiO5 to Yield Correlated Light Beams. Physical Review Applied, 2017, 7, .	3.9	87

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73	Unveiling the Link Between Fractional SchrÃ¶dinger Equation and Light Propagation in Honeycomb Lattice. Annalen Der Physik, 2017, 529, .	2.6	55
74	Edge States in Dynamical Superlattices. ACS Photonics, 2017, 4, 2250-2256.	6.0	25
75	Generation of high-dimensional energy-time-entangled photon pairs. Physical Review A, 2017, 96, .	2.7	23
76	Optical Bloch oscillation and Zener tunneling in the fractional SchrÃ¶dinger equation. Scientific Reports, 2017, 7, .	3.4	41
77	Resonant mode conversions and Rabi oscillations in a fractional SchrÃ¶dinger equation. Optics Express, 2017, 25, 32401.	3.0	58
78	Optical Bloch oscillation and Zener tunneling in an atomic system. Optica, 2017, 4, 571.	7.7	52
79	Guided Self-Accelerating Airy Beamsâ€"A Mini-Review. Applied Sciences (Switzerland), 2017, 7, 341.	2.1	41
80	Propagation of optical vortices in a nonlinear atomic medium with a photonic band gap. Optics Letters, 2017, 42, 1059.	3.0	43
81	PT symmetry in a fractional SchrÃ¶dinger equation. Laser and Photonics Reviews, 2016, 10, 526-531.	9.2	175
82	Noise correlations controlled by dressed suppression and enhancement. Europhysics Letters, 2016, 115, 33001.	1.8	0
83	Triple-mode squeezing with dressed six-wave mixing. Scientific Reports, 2016, 6, .	3.4	10
84	Airy-Tricomi-Gaussian compressed light bullets. European Physical Journal Plus, 2016, 131, .	2.5	10
85	Roadmap on optical rogue waves and extreme events. Journal of Optics (United Kingdom), 2016, 18, 063001.	2.6	249
86	Polarized Autlerâ€"Townes splitting of Rydberg six-wave mixing. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 174002.	1.8	4
87	Controllable circular Airy beams via dynamic linear potential. Optics Express, 2016, 24, 7495.	3.0	65
88	Diffraction-free beams in fractional SchrÃ¶dinger equation. Scientific Reports, 2016, 6, .	3.4	109
89	Observation of Parity-Time Symmetry in Optically Induced Atomic Lattices. Physical Review Letters, 2016, 117, .	8.2	305
90	Fractional nonparaxial accelerating Talbot effect. Optics Letters, 2016, 41, 3273.	3.0	20

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91	Spatiotemporal accessible solitons in fractional dimensions. Physical Review E, 2016, 94, .	2.1	112
92	Coherent and Incoherent Nonparaxial Self-Accelerating Weber Beams. IEEE Photonics Journal, 2016, 8, 1-9.	1.8	7
93	Efficient and eco-friendly extraction of corn germ oil using aqueous ethanol solution assisted by steam explosion. Journal of Food Science and Technology, 2016, 53, 2108-2116.	2.6	21
94	Accessible solitons of fractional dimension. Annals of Physics, 2016, 368, 110-116.	2.6	73
95	Dark spatiotemporal optical solitary waves in self-defocusing nonlinear media. Nonlinear Dynamics, 2016, 87, 2171-2177.	5.0	10
96	Nonparaxial self-accelerating beams in an atomic vapor with electromagnetically induced transparency. Optics Letters, 2016, 41, 5644.	3.0	14
97	Parametrical amplification induced nonreciprocity in photonic band gaps. RSC Advances, 2015, 5, 77372-77379.	4.4	2
98	Analogy of transistor function with modulating photonic band gap in electromagnetically induced grating. Scientific Reports, 2015, 5, .	3.4	9
99	Dual accelerating Airyâ€“Talbot recurrence effect. Optics Letters, 2015, 40, 5742.	3.0	32
100	Rydberg six-wave mixing process. Europhysics Letters, 2015, 109, 33001.	1.8	6
101	Self-decelerating Airy-Bessel light bullets. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 175401.	1.8	21
102	Two-dimensional linear and nonlinear Talbot effect from rogue waves. Physical Review E, 2015, 91, .	2.1	20
103	Vacuum induced Aulterâ€“Townes splitting of four- and six-wave mixings in a ring cavity. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 105201.	1.8	0
104	Optical processes in different types of photonic band gap structures. Optical Materials, 2015, 44, 58-66.	4.0	5
105	Photonic Floquet topological insulators in atomic ensembles. Laser and Photonics Reviews, 2015, 9, 331-338.	9.2	76
106	Second-order rogue wave breathers in the nonlinear SchrÃ¶dinger equation with quadratic potential modulated by a spatially-varying diffraction coefficient. Optics Express, 2015, 23, 3708.	3.0	31
107	Three-dimensional localized Airy-Laguerre-Gaussian wave packets in free space. Optics Express, 2015, 23, 23867.	3.0	54
108	Dressed four-wave mixing and multi-order fluorescence signals. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 101.	1.8	0

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109	Modulated photonic band gaps generated by high-order wave mixing. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 179.	1.8	7
110	Periodic inversion and phase transition of finite energy Airy beams in a medium with parabolic potential. Optics Express, 2015, 23, 10467.	3.0	142
111	Automatic Fourier transform and self-Fourier beams due to parabolic potential. Annals of Physics, 2015, 363, 305-315.	2.6	49
112	Anharmonic propagation of two-dimensional beams carrying orbital angular momentum in a harmonic potential. Optics Letters, 2015, 40, 3786.	3.0	64
113	Observation of triple-dressing on photonic band gap of optically driven hot atoms. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1961.	1.8	3
114	Polarization-dressed time-delayed second-order and fourth-order fluorescence processes. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1414.	1.8	0
115	Modulation of the photonic band structure topology of a honeycomb lattice in an atomic vapor. Annals of Physics, 2015, 363, 114-121.	2.6	6
116	Propagation Dynamics of a Light Beam in a Fractional SchrÃ¶dinger Equation. Physical Review Letters, 2015, 115, .	8.2	319
117	Co-existing of dressed non-linear gain and electromagnetically induced absorption. Optical Materials, 2015, 49, 312-318.	4.0	1
118	Interactions of incoherent localized beams in a photorefractive medium. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2258.	1.8	2
119	Power quantum control of odd-order multiwave mixing in an electromagnetically induced transparency window. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1263.	1.8	1
120	Optical cavity squeezing of multiwave mixing via dark states. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2792.	1.8	5
121	Observation of the four wave mixing photonic band gap signal in electromagnetically induced grating. Optics Express, 2014, 22, 29544.	3.0	9
122	Nonlinear Talbot effect of rogue waves. Physical Review E, 2014, 89, .	2.1	57
123	Three-dimensional nonparaxial accelerating beams from the transverse Whittaker integral. Europhysics Letters, 2014, 107, 34001.	1.8	10
124	Controllable nonlinear optical processes in six-wave mixing and fluorescence channels. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 075401.	1.8	0
125	Surface waves at the interface between a metal and a photovoltaic-photorefractive crystal. Optik, 2014, 125, 2974-2977.	2.9	0
126	Competition between atomic coherence and electromagnetically induced population grating in multi-wave mixing. Applied Physics B: Lasers and Optics, 2014, 117, 1055-1063.	1.8	1

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127	Nonreciprocity of a six-wave mixing light droplet by a moving electromagnetically induced grating. Laser Physics, 2014, 24, 045402.	1.1	8
128	Interactions of Airy beams, nonlinear accelerating beams, and induced solitons in Kerr and saturable nonlinear media. Optics Express, 2014, 22, 7160.	3.0	157
129	Density Control of Dressed Four-Wave Mixing and Super-Fluorescence. IEEE Journal of Quantum Electronics, 2014, 50, 25-34.	1.3	1
130	Accelerating Airyâ€“Gaussâ€“Kummer localized wave packets. Annals of Physics, 2014, 340, 171-178.	2.6	32
131	Parametrically Amplified Bright-state Polariton of Four- and Six-wave Mixing in an Optical Ring Cavity. Scientific Reports, 2014, 4, .	3.4	28
132	Multicharged optical vortices induced in a dissipative atomic vapor system. Physical Review A, 2013, 88, .	2.7	13
133	Coherent control of dressed images of four-wave mixing. Frontiers of Physics, 2013, 8, 228-235.	4.3	4
134	Observations of Autler-Townes spatial splitting of four-wave mixing image. Applied Physics B: Lasers and Optics, 2013, 112, 267-278.	1.8	2
135	Investigation of odd-order nonlinear susceptibilities in atomic vapors. Annals of Physics, 2013, 333, 307-322.	2.6	4
136	Localized surface waves at the interfzace between a linear dielectric and a photovoltaic-photorefractive crystal. Optics and Laser Technology, 2013, 48, 79-82.	4.9	2
137	Controlling the transition of bright and dark states via scanning dressing field. Optical Materials, 2013, 35, 1062-1070.	4.0	41
138	Generation of localized surface waves at the interface between a linear dielectric and a biased photovoltaicâ€“photorefractivecrystal. Optics Communications, 2013, 295, 203-207.	2.3	2
139	Fresnel diffraction patterns as accelerating beams. Europhysics Letters, 2013, 104, 34007.	1.8	9
140	Surface solitons of four-wave mixing in an electromagnetically induced lattice. Laser Physics Letters, 2013, 10, 055406.	1.4	33
141	Soliton pair generation in the interactions of Airy and nonlinear accelerating beams. Optics Letters, 2013, 38, 4585.	3.0	167
142	Evidence of Autlerâ€“Townes splitting in fluorescence and six-wave mixing with multi-electromagnetically induced transparency. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2563.	1.8	3
143	Controlling multi-wave mixing signals via photonic band gap of electromagnetically induced absorption grating in atomic media. Optics Express, 2013, 21, 29338.	3.0	19
144	Observation of angle-modulated switch between enhancement and suppression of nonlinear optical processes. Optics Express, 2013, 21, 5654.	3.0	4

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145	Dressed multi-wave mixing process with Rydberg blockade. Optics Express, 2013, 21, 11728.	3.0	5
146	Comparison of dressed probe transmission, four-wave mixing, and fluorescence in multilevel systems. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1885.	1.8	0
147	Cubic-quintic condensate solitons in four-wave mixing. Physical Review A, 2013, 88, .	2.7	66
148	Electromagnetically induced transparency and fluorescence in blockaded Rydberg atomic system. Journal of Chemical Physics, 2013, 139, .	2.8	9
149	Spatial Four Wave Mixing, Probe Images, and Fluorescence Signals in Dressed Three-Level System. Journal of the Physical Society of Japan, 2013, 82, 104401.	2.1	5
150	Observation of Angle Switching of Dressed Four-Wave Mixing Image. IEEE Photonics Journal, 2012, 4, 1973-1986.	1.8	9
151	Spatial interplay of two four-wave mixing images. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 3015.	1.8	1
152	Multidressing interaction of four-wave mixing image in three-level atomic system. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1920.	1.8	2
153	Observation of multi-component spatial vector solitons of four-wave mixing. Optics Express, 2012, 20, 14168.	3.0	13
154	Phase control of bright and dark states in four-wave mixing and fluorescence channels. Applied Physics Letters, 2012, 101, 081107.	3.0	14
155	Controllable Multiwave Mixing Talbot Effect. IEEE Photonics Journal, 2012, 4, 2057-2065.	1.8	24
156	Controllable vacuum Rabi splitting and optical bistability of multi-wave-mixing signal inside a ring cavity. Physical Review A, 2012, 86, .	2.7	39
157	Optical vortices induced in nonlinear multilevel atomic vapors. Optics Letters, 2012, 37, 4507.	3.0	23
158	Bragg gap solitons in PT symmetric lattices with competing nonlinearity. Optics Communications, 2012, 285, 1934-1939.	2.3	27
159	Interactions of two humps of dipoles in anisotropic nonlinear media. Optics and Laser Technology, 2012, 44, 1729-1732.	4.9	2
160	Multiple incoherent gray photorefractive spatial solitons. Optical and Quantum Electronics, 2011, 42, 277-284.	3.6	4
161	One-dimensional steady-state bright photovoltaic solitons in LiNbO3:Fe crystal with background illumination. Optik, 2010, 121, 575-580.	2.9	9
162	Azimuthons in weakly nonlinear waveguides of different symmetries. Optics Express, 2010, 18, 27846.	3.0	28

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163	Self-accelerating topological edge states. Nanophotonics, 0, 14, 3075-3087.	6.2	0
164	Vortex and corner solitons in Stampfli-tiling dodecagonal quasiperiodic lattices. Chaos, Solitons and Fractals, 0, 201, 117285.	4.8	0
165	Topological Corner States due to Boundary Defects. Chinese Physics Letters, 0, 43, 010403.	4.2	0