

Zhigang Chen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

250
papers

9,446
citations

55
h-index

89
g-index

416
ext. papers

11,560
ext. citations

4.8
avg, IF

6.22
L-index

#	Paper	IF	Citations
250	Trapping and guiding microparticles with morphing autofocusing Airy beams. <i>Optics Letters</i> , 2011 , 36, 2883-5	3	394
249	Observation of discrete vortex solitons in optically induced photonic lattices. <i>Physical Review Letters</i> , 2004 , 92, 123903	7.4	360
248	Self-Trapping of Partially Spatially Incoherent Light. <i>Physical Review Letters</i> , 1996 , 77, 490-493	7.4	344
247	Optical spatial solitons: historical overview and recent advances. <i>Reports on Progress in Physics</i> , 2012 , 75, 086401	14.4	274
246	Nonparaxial Mathieu and Weber accelerating beams. <i>Physical Review Letters</i> , 2012 , 109, 193901	7.4	224
245	Observation of unconventional edge states in 'photonic graphene'. <i>Nature Materials</i> , 2014 , 13, 57-62	27	202
244	Discrete solitons and soliton-induced dislocations in partially coherent photonic lattices. <i>Physical Review Letters</i> , 2004 , 92, 123902	7.4	193
243	Topological creation and destruction of edge states in photonic graphene. <i>Physical Review Letters</i> , 2013 , 111, 103901	7.4	183
242	Plasmonic Airy beams with dynamically controlled trajectories. <i>Optics Letters</i> , 2011 , 36, 3191-3	3	169
241	Self-trapping of dark incoherent light beams. <i>Science</i> , 1998 , 280, 889-92	33.3	167
240	Airy beams and accelerating waves: an overview of recent advances. <i>Optica</i> , 2019 , 6, 686	8.6	164
239	Coupled photorefractive spatial-soliton pairs. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 3066	1.7	146
238	Observation of optical Shockley-like surface states in photonic superlattices. <i>Optics Letters</i> , 2009 , 34, 1633-5	3	144
237	Observation of incoherently coupled photorefractive spatial soliton pairs. <i>Optics Letters</i> , 1996 , 21, 1436-8		143
236	Observation of two-dimensional surface solitons. <i>Physical Review Letters</i> , 2007 , 98, 123903	7.4	129
235	Fourier-space generation of abruptly autofocusing beams and optical bottle beams. <i>Optics Letters</i> , 2011 , 36, 3675-7	3	122
234	Optimal control of the ballistic motion of Airy beams. <i>Optics Letters</i> , 2010 , 35, 2260-2	3	120

233	Self-Trapping of an Optical Vortex by Use of the Bulk Photovoltaic Effect. <i>Physical Review Letters</i> , 1997 , 78, 2948-2951	7.4	107
232	Waveguides induced by photorefractive screening solitons. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 3091	1.7	106
231	Trapping and transporting aerosols with a single optical bottle beam generated by moiré techniques. <i>Optics Letters</i> , 2011 , 36, 1491-3	3	104
230	Generation of linear and nonlinear nonparaxial accelerating beams. <i>Optics Letters</i> , 2012 , 37, 2820-2	3	104
229	Necklacelike solitons in optically induced photonic lattices. <i>Physical Review Letters</i> , 2005 , 94, 113902	7.4	103
228	Observation of discrete solitons and soliton rotation in optically induced periodic ring lattices. <i>Physical Review Letters</i> , 2006 , 96, 083904	7.4	101
227	Dipole solitons in optically induced two-dimensional photonic lattices. <i>Optics Letters</i> , 2004 , 29, 1662-4	3	100
226	Incoherently coupled dark-bright photorefractive solitons. <i>Optics Letters</i> , 1996 , 21, 1821-3	3	100
225	Defect modes in one-dimensional photonic lattices. <i>Optics Letters</i> , 2005 , 30, 1506-8	3	99
224	Steady-state dark photorefractive screening solitons. <i>Optics Letters</i> , 1996 , 21, 629-31	3	98
223	Spatial soliton pixels from partially incoherent light. <i>Optics Letters</i> , 2002 , 27, 2019-21	3	96
222	Spontaneous symmetry breaking in photonic lattices: Theory and experiment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 340, 275-280	2.3	94
221	Unveiling pseudospin and angular momentum in photonic graphene. <i>Nature Communications</i> , 2015 , 6, 6272	17.4	89
220	Directional coupler with soliton-induced waveguides. <i>Optics Letters</i> , 1999 , 24, 475-7	3	88
219	Bessel-like optical beams with arbitrary trajectories. <i>Optics Letters</i> , 2012 , 37, 5003-5	3	87
218	Curved singular beams for three-dimensional particle manipulation. <i>Scientific Reports</i> , 2015 , 5, 12086	4.9	86
217	Observation of localized flat-band states in Kagome photonic lattices. <i>Optics Express</i> , 2016 , 24, 8877-85	3.3	86
216	Abruptly autofocusing and autodefocusing optical beams with arbitrary caustics. <i>Physical Review A</i> , 2012 , 85,	2.6	86

215	Laser-assisted guiding of electric discharges around objects. <i>Science Advances</i> , 2015 , 1, e1400111	14.3	84
214	Acceleration control of Airy beams with optically induced refractive-index gradient. <i>Optics Letters</i> , 2011 , 36, 3230-2	3	84
213	Observation of self-accelerating Bessel-like optical beams along arbitrary trajectories. <i>Optics Letters</i> , 2013 , 38, 498-500	3	83
212	Dipole and Quadrupole Solitons in Optically Induced Two-Dimensional Photonic Lattices: Theory and Experiment. <i>Studies in Applied Mathematics</i> , 2004 , 113, 389-412	2.1	83
211	Demonstration of flat-band image transmission in optically induced Lieb photonic lattices. <i>Optics Letters</i> , 2016 , 41, 1435-8	3	83
210	Theory of Incoherent Dark Solitons. <i>Physical Review Letters</i> , 1998 , 80, 5113-5116	7.4	80
209	Inversion and tight focusing of Airy pulses under the action of third-order dispersion. <i>Optics Letters</i> , 2013 , 38, 2499-501	3	79
208	Defect solitons in photonic lattices. <i>Physical Review E</i> , 2006 , 73, 026609	2.4	77
207	Anisotropic enhancement of discrete diffraction and formation of two-dimensional discrete-soliton trains. <i>Physical Review Letters</i> , 2004 , 92, 143902	7.4	77
206	Observation of two-dimensional lattice vector solitons. <i>Optics Letters</i> , 2004 , 29, 1656-8	3	68
205	Persistence and breakdown of Airy beams driven by an initial nonlinearity. <i>Optics Letters</i> , 2010 , 35, 3952-4	3	67
204	Steady-state vortex-screening solitons formed in biased photorefractive media. <i>Optics Letters</i> , 1997 , 22, 1751-3	3	63
203	Band-gap guidance in optically induced photonic lattices with a negative defect. <i>Physical Review Letters</i> , 2006 , 96, 223903	7.4	63
202	Second-harmonic generation in waveguides induced by photorefractive spatial solitons. <i>Optics Letters</i> , 1999 , 24, 1145-7	3	63
201	Interaction between vector solitons and solitonic gluons. <i>Optics Letters</i> , 1999 , 24, 327-9	3	59
200	Steady-state photorefractive soliton-induced Y-junction waveguides and high-order dark spatial solitons. <i>Optics Letters</i> , 1996 , 21, 716-8	3	59
199	Bright spatial solitons on a partially incoherent background. <i>Physical Review Letters</i> , 2000 , 84, 2374-7	7.4	57
198	Experiments on induced modulational instability of an incoherent optical beam. <i>Optics Letters</i> , 2001 , 26, 271-3	3	57

197	Dynamics of incoherent bright and dark self-trapped beams and their coherence properties in photorefractive crystals. <i>Optics Letters</i> , 1998 , 23, 418-20	3	57
196	Highlighting photonics: looking into the next decade. <i>ELight</i> , 2021 , 1,		55
195	Nonlinear spectrum reshaping and gap-soliton-train trapping in optically induced photonic structures. <i>Physical Review Letters</i> , 2007 , 98, 213903	7.4	53
194	Stable higher-order vortices and quasivortices in the discrete nonlinear Schrödinger equation. <i>Physical Review E</i> , 2004 , 70, 056612	2.4	53
193	Optical nonlinearities and enhanced light transmission in soft-matter systems with tunable polarizabilities. <i>Physical Review Letters</i> , 2013 , 111, 218302	7.4	52
192	Self-trapping and flipping of double-charged vortices in optically induced photonic lattices. <i>Optics Letters</i> , 2006 , 31, 2456-8	3	49
191	Optically induced photovoltaic self-defocusing-to-self-focusing transition. <i>Optics Letters</i> , 1998 , 23, 924-6		49
190	Incoherent collisions between one-dimensional steady-state photorefractive screening solitons. <i>Applied Physics Letters</i> , 1996 , 69, 4151-4153	3.4	47
189	Unconventional Flatband Line States in Photonic Lieb Lattices. <i>Physical Review Letters</i> , 2018 , 121, 263902	7.4	45
188	Formation of discrete solitons in light-induced photonic lattices. <i>Optics Express</i> , 2005 , 13, 1816-26	3.3	44
187	Reshaping the trajectory and spectrum of nonlinear Airy beams. <i>Optics Letters</i> , 2012 , 37, 3201-3	3	42
186	Observation of trapping and transporting air-borne absorbing particles with a single optical beam. <i>Optics Express</i> , 2012 , 20, 16212	3.3	41
185	Observation of in-band lattice solitons. <i>Physical Review Letters</i> , 2007 , 99, 243901	7.4	41
184	Observation of topological transformations of optical vortices in two-dimensional photonic lattices. <i>Optics Express</i> , 2006 , 14, 8317-27	3.3	40
183	Plasmonic resonant solitons in metallic nanosuspensions. <i>Nano Letters</i> , 2014 , 14, 2498-504	11.5	38
182	Self-accelerating Airy Beams: Generation, Control, and Applications. <i>Springer Series in Optical Sciences</i> , 2012 , 1-46	0.5	38
181	Wave propagation in waveguide arrays with alternating positive and negative couplings. <i>Physical Review A</i> , 2010 , 81,	2.6	38
180	Sequential formation of multiple dark photorefractive spatial solitons: experiments and theory. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 1407	1.7	38

179	Self-trapping of light in an organic photorefractive glass. <i>Optics Letters</i> , 2003 , 28, 2509-11	3	38
178	Nonlinear tuning of PT symmetry and non-Hermitian topological states. <i>Science</i> , 2021 , 372, 72-76	33.3	38
177	Three Is a Crowd: Solitary Waves in Photorefractive Media with Three Potential Wells. <i>SIAM Journal on Applied Dynamical Systems</i> , 2006 , 5, 598-633	2.8	37
176	Soliton-induced waveguides in an organic photorefractive glass. <i>Optics Letters</i> , 2005 , 30, 519-21	3	35
175	Optical disassembly of cellular clusters by tunable 'tug-of-war' tweezers. <i>Light: Science and Applications</i> , 2016 , 5,	16.7	35
174	Multipath multicomponent self-accelerating beams through spectrum-engineered position mapping. <i>Physical Review A</i> , 2013 , 88,	2.6	34
173	Image signal transmission with Airy beams. <i>Optics Letters</i> , 2015 , 40, 5686-9	3	34
172	Observation of coherent destruction of tunneling and unusual beam dynamics due to negative coupling in three-dimensional photonic lattices. <i>Optics Letters</i> , 2010 , 35, 3252-4	3	34
171	Soliton stripes in two-dimensional nonlinear photonic lattices. <i>Optics Letters</i> , 2004 , 29, 486-8	3	34
170	Dark incoherent soliton splitting and "phase-memory" effects: Theory and experiment. <i>Physical Review E</i> , 1999 , 59, R4777-80	2.4	34
169	Improved intrapulse raman scattering control via asymmetric airy pulses. <i>Physical Review Letters</i> , 2015 , 114, 073901	7.4	33
168	Transition between Tamm-like and Shockley-like surface states in optically induced photonic superlattices. <i>Physical Review A</i> , 2009 , 80,	2.6	33
167	Two-dimensional defect modes in optically induced photonic lattices. <i>Physical Review A</i> , 2007 , 76,	2.6	33
166	Experimental Generation of Riemann Waves in Optics: A Route to Shock Wave Control. <i>Physical Review Letters</i> , 2016 , 117, 073902	7.4	33
165	Nonlinear Self-Action of Light through Biological Suspensions. <i>Physical Review Letters</i> , 2017 , 119, 058101	7.4	32
164	Spectrum to distance mapping via nonlinear Airy pulses. <i>Optics Letters</i> , 2013 , 38, 380-2	3	32
163	Properties of Defect Modes in One-Dimensional Optically Induced Photonic Lattices. <i>Studies in Applied Mathematics</i> , 2005 , 115, 279-301	2.1	32
162	Elliptical solitons in nonconventionally biased photorefractive crystals. <i>Optics Express</i> , 2007 , 15, 536-44	3.3	31

161	Elliptical discrete solitons supported by enhanced photorefractive anisotropy. <i>Optics Express</i> , 2008 , 16, 3865-70	3.3	30
160	High-order-mode soliton structures in two-dimensional lattices with defocusing nonlinearity. <i>Physical Review E</i> , 2006 , 74, 066606	2.4	30
159	Observation of lower to higher bandgap transition of one-dimensional defect modes. <i>Optics Express</i> , 2006 , 14, 7362-7	3.3	30
158	Clustering of solitons in weakly correlated wavefronts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5223-7	11.5	30
157	Observation of bound states of interacting vector solitons. <i>Optics Letters</i> , 2000 , 25, 417-9	3	30
156	Generation and nonlinear self-trapping of optical propelling beams. <i>Optics Letters</i> , 2010 , 35, 3129-31	3	29
155	Nontrivial coupling of light into a defect: the interplay of nonlinearity and topology. <i>Light: Science and Applications</i> , 2020 , 9, 147	16.7	29
154	OBSERVATION OF ONE- AND TWO-DIMENSIONAL DISCRETE SURFACE SPATIAL SOLITONS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2007 , 16, 401-426	0.8	27
153	Incoherent self-accelerating beams. <i>Optica</i> , 2015 , 2, 886	8.6	26
152	Discrete beam acceleration in uniform waveguide arrays. <i>Physical Review A</i> , 2011 , 84,	2.6	26
151	Optical force-induced nonlinearity and self-guiding of light in human red blood cell suspensions. <i>Light: Science and Applications</i> , 2019 , 8, 31	16.7	25
150	Topological Valley Hall Edge State Lasing. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000001	8.3	25
149	Induced modulation instability of partially spatially incoherent light with varying perturbation periods. <i>Physical Review E</i> , 2002 , 66, 066601	2.4	24
148	Photonic flat-band lattices and unconventional light localization. <i>Nanophotonics</i> , 2020 , 9, 1161-1176	6.3	23
147	Trapping aerosols with optical bottle arrays generated through a superposition of multiple Airy beams. <i>Chinese Optics Letters</i> , 2013 , 11, 033502-33504	2.2	23
146	Trapping and rotating microparticles and bacteria with moiré-based optical propelling beams. <i>Biomedical Optics Express</i> , 2012 , 3, 1891-7	3.5	22
145	Optical induction of three-dimensional photonic lattices and enhancement of discrete diffraction. <i>Optics Express</i> , 2009 , 17, 13151-6	3.3	22
144	Experiments on Gaussian beams and vortices in optically induced photonic lattices. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 1395	1.7	22

143	Waveguides formed by incoherent dark solitons. <i>Optics Letters</i> , 1999 , 24, 1160-2	3	22
142	Self-trapping of optical vortices in waveguide lattices with a self-defocusing nonlinearity. <i>Optics Express</i> , 2008 , 16, 10110-6	3-3	21
141	Linear instability of two-dimensional low-amplitude gap solitons near band edges in periodic media. <i>Physical Review A</i> , 2008 , 78,	2.6	20
140	Guiding light in optically induced ring lattices with a low-refractive-index core. <i>Optics Letters</i> , 2006 , 31, 1887-9	3	20
139	Symmetry breaking, dynamical pulsations, and turbulence in the transverse intensity patterns of a laser: the role played by defects. <i>Physica D: Nonlinear Phenomena</i> , 1992 , 61, 6-24	3-3	20
138	Direct Observation of Flatband Loop States Arising from Nontrivial Real-Space Topology. <i>Physical Review Letters</i> , 2020 , 124, 183901	7-4	19
137	Robust propagation of pin-like optical beam through atmospheric turbulence. <i>APL Photonics</i> , 2019 , 4, 076103	5-2	19
136	Incomplete Brillouin-zone spectra and controlled Bragg reflection with ionic-type photonic lattices. <i>Physical Review A</i> , 2010 , 81,	2.6	19
135	Observation of dipole-like gap solitons in self-defocusing waveguide lattices. <i>Optics Letters</i> , 2007 , 32, 3011-3	3	19
134	Periodic self-accelerating beams by combined phase and amplitude modulation in the Fourier space. <i>Optics Letters</i> , 2013 , 38, 3387-9	3	18
133	Image transmission using stable solitons of arbitrary shapes in photonic lattices. <i>Optics Letters</i> , 2011 , 36, 772-4	3	18
132	Tuning of Bloch modes, diffraction, and refraction by two-dimensional lattice reconfiguration. <i>Optics Letters</i> , 2010 , 35, 892-4	3	18
131	Beam control and multi-color routing with spatial photonic defect modes. <i>Optics Express</i> , 2009 , 17, 16927-32	3-3	18
130	Optically induced transition between discrete and gap solitons in a nonconventionally biased photorefractive crystal. <i>Optics Letters</i> , 2008 , 33, 878-80	3	18
129	Experiments on partially coherent photorefractive solitons. <i>Journal of Optics</i> , 2003 , 5, S389-S397		18
128	Stabilization and breakup of optical vortices in presence of hybrid nonlinearity. <i>Optics Express</i> , 2009 , 17, 23130-6	3-3	17
127	Guiding and nonlinear coupling of light in plasmonic nanosuspensions. <i>Optics Letters</i> , 2016 , 41, 3817-20	3	17
126	Flatband Line States in Photonic Super-Honeycomb Lattices. <i>Advanced Optical Materials</i> , 2020 , 8, 1902174	4-1	15

125	Cherenkov Radiation Control via Self-accelerating Wave-packets. <i>Scientific Reports</i> , 2017 , 7, 8695	4.9	15
124	Interactions between self-channeled optical beams in soft-matter systems with artificial nonlinearities. <i>Optics Letters</i> , 2013 , 38, 3585-7	3	15
123	Demonstration of surface soliton arrays at the edge of a two-dimensional photonic lattice. <i>Optics Letters</i> , 2008 , 33, 1240-2	3	15
122	Nonlinear control of photonic higher-order topological bound states in the continuum. <i>Light: Science and Applications</i> , 2021 , 10, 164	16.7	15
121	Three-dimensional nonparaxial beams in parabolic rotational coordinates. <i>Optics Letters</i> , 2013 , 38, 3934-6		14
120	Enhanced second-harmonic generation by means of high-power confinement in a photovoltaic soliton-induced waveguide. <i>Optics Letters</i> , 2004 , 29, 953-5	3	14
119	Optimal compression and energy confinement of optical Airy bullets. <i>Optics Express</i> , 2016 , 24, 26454-26463	4.3	14
118	Valley Vortex States and Degeneracy Lifting via Photonic Higher-Band Excitation. <i>Physical Review Letters</i> , 2019 , 122, 123903	7.4	13
117	Evaluating the toxic effect of an antimicrobial agent on single bacterial cells with optical tweezers. <i>Biomedical Optics Express</i> , 2015 , 6, 112-7	3.5	13
116	Waveguides and waveguide arrays formed by incoherent light in photorefractive materials. <i>Optical Materials</i> , 2003 , 23, 235-241	3.3	13
115	Observation of Valley Landau-Zener-Bloch Oscillations and Pseudospin Imbalance in Photonic Graphene. <i>Physical Review Letters</i> , 2018 , 121, 033904	7.4	12
114	Accelerating diffraction-free beams in photonic lattices. <i>Optics Letters</i> , 2014 , 39, 2129-32	3	12
113	Efficient Optical Energy Harvesting in Self-Accelerating Beams. <i>Scientific Reports</i> , 2015 , 5, 13197	4.9	12
112	Anomalous interactions of spatial gap solitons in optically induced photonic lattices. <i>Optics Letters</i> , 2011 , 36, 1167-9	3	12
111	Dipole and quadrupole solitons in optically-induced two-dimensional defocusing photonic lattices. <i>Physica D: Nonlinear Phenomena</i> , 2008 , 237, 3123-3134	3.3	12
110	Weakly nonlinear topological gap solitons in Su-Schrieffer-Heeger photonic lattices. <i>Optics Letters</i> , 2020 , 45, 6466-6469	3	12
109	Specially shaped Bessel-like self-accelerating beams along predesigned trajectories. <i>Science Bulletin</i> , 2015 , 60, 1157-1169	10.6	11
108	Topological photonic crystal fibers and ring resonators. <i>Optics Letters</i> , 2020 , 45, 1415-1418	3	11

107	Observation of quincunx-shaped and dipole-like flatband states in photonic rhombic lattices without band-touching. <i>APL Photonics</i> , 2020 , 5, 016107	5.2	10
106	Universal momentum-to-real-space mapping of topological singularities. <i>Nature Communications</i> , 2020 , 11, 1586	17.4	10
105	Generation of linear and nonlinear propagation of three-Airy beams. <i>Optics Express</i> , 2013 , 21, 1615-22	3.3	10
104	Interface solitons excited between a simple lattice and a superlattice. <i>Optics Express</i> , 2010 , 18, 14679-84	3.3	10
103	Nonlinear beam deflection in photonic lattices with negative defects. <i>Physical Review A</i> , 2011 , 83,	2.6	10
102	Orientation-dependent excitations of lattice soliton trains with hybrid nonlinearity. <i>Optics Letters</i> , 2009 , 34, 1114-6	3	10
101	Generation and probing of 3D helical lattices with tunable helix pitch and interface. <i>Optics Express</i> , 2019 , 27, 121-131	3.3	10
100	Observation of microscale nonparaxial optical bottle beams. <i>Optics Letters</i> , 2018 , 43, 3878-3881	3	9
99	Optical spatial shock waves in nonlocal nonlinear media. <i>Advances in Physics: X</i> , 2019 , 4, 1662733	5.1	9
98	Observation of accelerating Wannier-Stark beams in optically induced photonic lattices. <i>Optics Letters</i> , 2014 , 39, 1065-8	3	9
97	Giant tunable self-defocusing nonlinearity and dark soliton attraction observed in m-cresol/nylon thermal solutions. <i>Optical Materials Express</i> , 2014 , 4, 1807	2.6	9
96	Observation of soliton interaction and planetlike orbiting in Bessel-like photonic lattices. <i>Optics Letters</i> , 2010 , 35, 2284-6	3	9
95	Geometric stabilization of extended S=2 vortices in two-dimensional photonic lattices: Theoretical analysis, numerical computation, and experimental results. <i>Physical Review A</i> , 2009 , 80,	2.6	9
94	Research progress and application prospect of Airy beams. <i>Chinese Science Bulletin</i> , 2013 , 58, 3513-3520	2.9	9
93	Dynamical deformed Airy beams with arbitrary angles between two wings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, 1468-72	1.8	8
92	Fabrication Technologies for the On-Chip Integration of 2D Materials.. <i>Small Methods</i> , 2022 , e2101435	12.8	8
91	Direct comparison of anti-diffracting optical pin beams and abruptly autofocusing beams. <i>OSA Continuum</i> , 2020 , 3, 1525	1.4	8
90	Synthetic optical vortex beams from the analogous trajectory change of an artificial satellite. <i>Photonics Research</i> , 2019 , 7, 1101	6	8

89	Generation of autofocusing beams with multi-Airy beams. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013 , 62, 034209	0.6	8
88	Topological phenomena demonstrated in photorefractive photonic lattices [Invited]. <i>Optical Materials Express</i> , 2021 , 11, 1292	2.6	8
87	Visualizing a Nonlinear Response in a Schrödinger Wave. <i>Physical Review Letters</i> , 2019 , 123, 234101	7.4	8
86	Controlled generation of pseudospin-mediated vortices in photonic graphene. <i>2D Materials</i> , 2015 , 2, 034007	5.9	7
85	Vortex degeneracy lifting and Aharonov-Bohm-like interference in deformed photonic graphene. <i>Optics Letters</i> , 2017 , 42, 915-918	3	7
84	Saddle solitons: a balance between bi-diffraction and hybrid nonlinearity. <i>Optics Letters</i> , 2009 , 34, 3259-61		7
83	Nonlinear topological valley Hall edge states arising from type-II Dirac cones. <i>Advanced Photonics</i> , 2021 , 3,	8.1	7
82	Optical tug-of-war tweezers: shaping light for dynamic control of bacterial cells (Invited Paper). <i>Chinese Optics Letters</i> , 2017 , 15, 030010-30013	2.2	7
81	Light localization and nonlinear beam transmission in specular amorphous photonic lattices. <i>Optics Express</i> , 2016 , 24, 2420-6	3.3	7
80	Scattering detection of a solenoidal Poynting vector field. <i>Optics Letters</i> , 2016 , 41, 3615-8	3	7
79	Observation of self-trapping and rotation of higher-band gap solitons in two-dimensional photonic lattices. <i>Optics Express</i> , 2015 , 23, 4397-405	3.3	6
78	Self-trapping of optical vortices at the surface of an induced semi-infinite photonic lattice. <i>Optics Express</i> , 2010 , 18, 5873-8	3.3	6
77	Hybrid nonlinearity supported by nonconventionally biased photorefractive crystals. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 95, 559-563	1.9	6
76	Band-Gap Engineering and Light Manipulation with Egg-Crate Photonic Lattices. <i>Optics and Photonics News</i> , 2008 , 19, 25	1.9	6
75	Novel spatial solitons in light-induced photonic bandgap structures. <i>Frontiers of Physics in China</i> , 2008 , 3, 1-12		6
74	Symmetric and antisymmetric soliton states in two-dimensional photonic lattices. <i>Optics Letters</i> , 2006 , 31, 492-4	3	6
73	Rabi-like oscillation of photonic topological valley Hall edge states. <i>Optics Letters</i> , 2019 , 44, 3342-3345	3	6
72	Plasmonic resonant nonlinearity and synthetic optical properties in gold nanorod suspensions. <i>Photonics Research</i> , 2019 , 7, 28	6	6

71	Realization of Second-Order Photonic Square-Root Topological Insulators. <i>ACS Photonics</i> ,	6.3	6
70	Fractal-like photonic lattices and localized states arising from singular and nonsingular flatbands. <i>APL Photonics</i> ,	5.2	6
69	Optical clearing and shielding with fan-shaped vortex beams. <i>APL Photonics</i> , 2020 , 5, 016102	5.2	5
68	Observation of spatial optical diametric drive acceleration in photonic lattices. <i>Optics Letters</i> , 2018 , 43, 118-121	3	5
67	. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-6	1.8	5
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