

Nikolaos Efremidis

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7099483/nikolaos-efremidis-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

101
papers

5,725
citations

32
h-index

75
g-index

133
ext. papers

6,858
ext. citations

3.7
avg, IF

5.9
L-index

#	Paper	IF	Citations
101	Observation of two-dimensional discrete solitons in optically induced nonlinear photonic lattices. <i>Nature</i> , 2003 , 422, 147-50	50.4	1036
100	Observation of discrete solitons in optically induced real time waveguide arrays. <i>Physical Review Letters</i> , 2003 , 90, 023902	7.4	430
99	Discrete solitons in photorefractive optically induced photonic lattices. <i>Physical Review E</i> , 2002 , 66, 046602	7.4	429
98	Trapping and guiding microparticles with morphing autofocusing Airy beams. <i>Optics Letters</i> , 2011 , 36, 2883-5	3	394
97	Abruptly autofocusing waves. <i>Optics Letters</i> , 2010 , 35, 4045-7	3	344
96	Observation of abruptly autofocusing waves. <i>Optics Letters</i> , 2011 , 36, 1842-4	3	265
95	Two-dimensional optical lattice solitons. <i>Physical Review Letters</i> , 2003 , 91, 213906	7.4	192
94	Spatial photonics in nonlinear waveguide arrays. <i>Optics Express</i> , 2005 , 13, 1780-96	3.3	165
93	Airy beams and accelerating waves: an overview of recent advances. <i>Optica</i> , 2019 , 6, 686	8.6	164
92	Lattice solitons in Bose-Einstein condensates. <i>Physical Review A</i> , 2003 , 67,	2.6	154
91	Pre-engineered abruptly autofocusing beams. <i>Optics Letters</i> , 2011 , 36, 1890-2	3	151
90	Fourier-space generation of abruptly autofocusing beams and optical bottle beams. <i>Optics Letters</i> , 2011 , 36, 3675-7	3	122
89	Airy trajectory engineering in dynamic linear index potentials. <i>Optics Letters</i> , 2011 , 36, 3006-8	3	100
88	Discrete temporal solitons along a chain of nonlinear coupled microcavities embedded in photonic crystals. <i>Optics Letters</i> , 2002 , 27, 568-70	3	90
87	Unveiling pseudospin and angular momentum in photonic graphene. <i>Nature Communications</i> , 2015 , 6, 6272	17.4	89
86	Bessel-like optical beams with arbitrary trajectories. <i>Optics Letters</i> , 2012 , 37, 5003-5	3	87
85	Curved singular beams for three-dimensional particle manipulation. <i>Scientific Reports</i> , 2015 , 5, 12086	4.9	86

84	Abruptly autofocusing and autodefocusing optical beams with arbitrary caustics. <i>Physical Review A</i> , 2012 , 85,	2.6	86
83	Observation of self-accelerating Bessel-like optical beams along arbitrary trajectories. <i>Optics Letters</i> , 2013 , 38, 498-500	3	83
82	Discrete solitons in nonlinear zigzag optical waveguide arrays with tailored diffraction properties. <i>Physical Review E</i> , 2002 , 65, 056607	2.4	61
81	Bessel X waves in two- and three-dimensional bidispersive optical systems. <i>Optics Letters</i> , 2004 , 29, 1446-8	3	60
80	Optical analogues for massless dirac particles and conical diffraction in one dimension. <i>Physical Review Letters</i> , 2012 , 109, 023602	7.4	54
79	Discrete Ginzburg-Landau solitons. <i>Physical Review E</i> , 2003 , 67, 026606	2.4	53
78	Accelerating and abruptly autofocusing matter waves. <i>Physical Review A</i> , 2013 , 87,	2.6	52
77	White-light solitons. <i>Optics Letters</i> , 2003 , 28, 1239-41	3	49
76	Nonparaxial abruptly autofocusing beams. <i>Optics Letters</i> , 2016 , 41, 1042-5	3	44
75	Self-accelerating Airy Beams: Generation, Control, and Applications. <i>Springer Series in Optical Sciences</i> , 2012 , 1-46	0.5	38
74	Wave propagation in waveguide arrays with alternating positive and negative couplings. <i>Physical Review A</i> , 2010 , 81,	2.6	38
73	Random-phase solitons in nonlinear periodic lattices. <i>Physical Review Letters</i> , 2004 , 92, 223901	7.4	37
72	Nonparaxial accelerating Bessel-like beams. <i>Physical Review A</i> , 2013 , 88,	2.6	36
71	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
70	Design of switching junctions for two-dimensional discrete soliton networks. <i>Optics Letters</i> , 2001 , 26, 1978-80	3	32
69	Spatiotemporal diffraction-free pulsed beams in free-space of the Airy and Bessel type. <i>Optics Letters</i> , 2017 , 42, 5038-5041	3	29
68	Multichannel pulse dynamics in a stabilized Ginzburg-Landau system. <i>Physical Review E</i> , 2002 , 65, 036605	2.4	27
67	Interlaced linear-nonlinear optical waveguide arrays. <i>Optics Express</i> , 2008 , 16, 18296-311	3.3	25

66	Nonlocal lattice solitons in thermal media. <i>Physical Review A</i> , 2008 , 77,	2.6	25
65	Three-dimensional vortex solitons in self-defocusing media. <i>Physical Review Letters</i> , 2007 , 98, 113901	7.4	25
64	Reflection and refraction of an Airy beam at a dielectric interface. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012 , 29, 861-8	1.8	23
63	Anisotropic diffraction and elliptic discrete solitons in two-dimensional waveguide arrays. <i>Optics Letters</i> , 2004 , 29, 268-70	3	23
62	Two-dimensional discrete Ginzburg-Landau solitons. <i>Physical Review A</i> , 2007 , 76,	2.6	22
61	Accelerating beam propagation in refractive-index potentials. <i>Physical Review A</i> , 2014 , 89,	2.6	21
60	Observation and optical tailoring of photonic lattice filaments. <i>Physical Review Letters</i> , 2012 , 109, 113905	7.4	20
59	Bandgap lattices: low index solitons and linear properties. <i>Optics Express</i> , 2005 , 13, 10571-88	3.3	20
58	Robust propagation of pin-like optical beam through atmospheric turbulence. <i>APL Photonics</i> , 2019 , 4, 076103	5.2	19
57	Tailoring the filamentation of intense femtosecond laser pulses with periodic lattices. <i>Physical Review A</i> , 2010 , 82,	2.6	19
56	Closed-form expressions for nonparaxial accelerating beams with pre-engineered trajectories. <i>Optics Letters</i> , 2015 , 40, 1444-7	3	17
55	Disordered lattice solitons. <i>Physical Review Letters</i> , 2008 , 101, 143903	7.4	17
54	Revivals in engineered waveguide arrays. <i>Optics Communications</i> , 2005 , 246, 345-356	2	17
53	Stabilization of dark solitons in the cubic ginzburg-landau equation. <i>Physical Review E</i> , 2000 , 62, 7410-4	2.4	16
52	Stable transmission of solitons in the region of normal dispersion. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000 , 17, 952	1.7	16
51	Centrally Coupled Circular Array of Optical Waveguides: The Existence of Stable Steady-State Continuous Waves and Breathing Modes. <i>Physica Scripta</i> , 2004 , T107, 13	2.6	15
50	Accelerating and Abruptly-Autofocusing Beam Waves in the Fresnel Zone of Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 5048-5056	4.9	14
49	Valley Vortex States and Degeneracy Lifting via Photonic Higher-Band Excitation. <i>Physical Review Letters</i> , 2019 , 122, 123903	7.4	13

48	Precise amplitude, trajectory, and beam-width control of accelerating and abruptly autofocusing beams. <i>Physical Review A</i> , 2018 , 97,	2.6	13
47	Caustic design in periodic lattices. <i>Optics Letters</i> , 2012 , 37, 1277-9	3	13
46	Accelerating diffraction-free beams in photonic lattices. <i>Optics Letters</i> , 2014 , 39, 2129-32	3	12
45	Bloch oscillations in optical dissipative lattices. <i>Optics Letters</i> , 2004 , 29, 2485-7	3	12
44	Intense dynamic bullets in a periodic lattice. <i>Optics Express</i> , 2011 , 19, 10057-62	3.3	11
43	Band-specific phase engineering for curving and focusing light in waveguide arrays. <i>Physical Review A</i> , 2012 , 85,	2.6	11
42	LOCALIZED MODES IN A CIRCULAR ARRAY OF COUPLED NONLINEAR OPTICAL WAVEGUIDES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006 , 16, 1739-1752	2	11
41	Observation of microscale nonparaxial optical bottle beams. <i>Optics Letters</i> , 2018 , 43, 3878-3881	3	9
40	An ultra-bright atom laser. <i>New Journal of Physics</i> , 2014 , 16, 033036	2.9	9
39	Analytic theory of narrow lattice solitons. <i>Nonlinearity</i> , 2008 , 21, 509-536	1.7	9
38	Hysteresis and metastability of Bose-Einstein-condensed clouds of atoms confined in ring potentials. <i>Physical Review A</i> , 2015 , 91,	2.6	8
37	Surface optical Bloch oscillations in semi-infinite waveguide arrays. <i>Optics Letters</i> , 2012 , 37, 1892-4	3	8
36	Independent amplitude and trajectory/beam-width control of nonparaxial beams. <i>Optics Express</i> , 2018 , 26, 18969-18974	3.3	8
35	Direct comparison of anti-diffracting optical pin beams and abruptly autofocusing beams. <i>OSA Continuum</i> , 2020 , 3, 1525	1.4	8
34	Rotating Bose-Einstein condensates with a finite number of atoms confined in a ring potential: Spontaneous symmetry breaking beyond the mean-field approximation. <i>Physical Review A</i> , 2017 , 95,	2.6	7
33	Controlled generation of pseudospin-mediated vortices in photonic graphene. <i>2D Materials</i> , 2015 , 2, 034007	5.9	7
32	Exact X-wave solutions of the hyperbolic nonlinear Schrödinger equation with a supporting potential. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 4073-4076	2.3	7
31	Mean-field yrast spectrum and persistent currents in a two-component Bose gas with interaction asymmetry. <i>Physical Review A</i> , 2015 , 92,	2.6	6

30	Localized waves with spherical harmonic symmetries. <i>Physical Review A</i> , 2012 , 86,	2.6	6
29	Photonic Structures: Solitons in Optically Induced Nonlinear Photonic Lattices. <i>Optics and Photonics News</i> , 2002 , 13, 49	1.9	6
28	Reconfigurable 3D photonic lattices by optical induction for optical control of beam propagation. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 104, 553-560	1.9	5
27	Two-dimensional disordered lattice solitons. <i>Optics Letters</i> , 2009 , 34, 596-8	3	5
26	Bifurcations of nonlinear localized modes in disordered lattices. <i>Physical Review A</i> , 2009 , 79,	2.6	5
25	Complex-cubic Ginzburg-Landau equation-based model for erbium-doped fiber-amplifier-supported nonreturn-to-zero communications. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 63	1.7	5
24	Persistent currents in a two-component Bose-Einstein condensate confined in a ring potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 215302	1.3	4
23	A note on perfect revivals in finite waveguide arrays. <i>Optics Communications</i> , 2012 , 285, 4364-4367	2	4
22	Navigating Discrete Solitons In Two-Dimensional Nonlinear Waveguide Array Networks. <i>Optics and Photonics News</i> , 2001 , 12, 57	1.9	4
21	Free-space realization of tunable pin-like optical vortex beams. <i>Photonics Research</i> , 2021 , 9, 1204	6	4
20	Exact bidirectional X-wave solutions in fiber Bragg gratings. <i>Physical Review A</i> , 2017 , 96,	2.6	3
19	Cross-phase modulation mediated pulse control with Airy pulses in optical fibers. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 115505	1.7	3
18	Fragility of the bosonic Laughlin state. <i>Physical Review A</i> , 2019 , 99,	2.6	2
17	Composite multi-vortex diffraction-free beams and van-Hove singularities in honeycomb lattices. <i>Optics Letters</i> , 2015 , 40, 1037-40	3	2
16	Trapping and guiding microparticles with self-accelerating vortex beams 2013 ,		2
15	Nonlinear from linear states in two-component Bose-Einstein condensates. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009 , 42, 045206	2	2
14	STATIC PROPERTIES AND WAVEGUIDE MODES OF A WIDE LATERAL WINDOW JOSEPHSON JUNCTION. <i>International Journal of Modern Physics C</i> , 2000 , 11, 493-517	1.1	2
13	Tunable self-similar Bessel-like beams of arbitrary order. <i>Optics Letters</i> , 2020 , 45, 1830-1833	3	2

12	Introduction to Solitons in Photonic Lattices. <i>Springer Series in Optical Sciences</i> , 2010 , 73-99	0.5	2
11	Fundamental entropic processes in the theory of optical thermodynamics. <i>Physical Review A</i> , 2021 , 103,	2.6	2
10	Excitation spectrum of a mixture of two Bose gases confined in a ring potential with interaction asymmetry. <i>New Journal of Physics</i> , 2018 , 20, 045006	2.9	2
9	Modifying the optical path in a nonlinear double-slit experiment. <i>Optics Letters</i> , 2015 , 40, 5208-11	3	1
8	Abruptly autofocusing waves 2011 ,		1
7	Wave propagation in waveguide arrays with alternating positive and negative couplings 2010 ,		1
6	Linear and nonlinear waves in surface and wedge index potentials. <i>Optics Letters</i> , 2012 , 37, 1874-6	3	1
5	Fourier-mode dynamics for the nonlinear Schrödinger equation in one-dimensional bounded domains. <i>Physical Review E</i> , 2011 , 84, 036601	2.4	0
4	Soliton dynamics and interactions in dynamically photo-induced lattices 2006 , 6187, 359		
3	Pulse compression using nonlinear waveguide arrays 2005 , WD23		
2	Nonlinear imaging in photonic lattices. <i>Optics Letters</i> , 2017 , 42, 147-150	3	
1	Parity breaking with a nonlinear optical double-slit configuration. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, 257	1.7	