

Konstantinos G Makris

List of Publications by Year in Descending Order

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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.

73
papers

8,971
citations

30
h-index

94
g-index

99
ext. papers

11,046
ext. citations

5.4
avg, IF

6.25
L-index

#	Paper	IF	Citations
73	Intermixed Time-Dependent Self-Focusing and Defocusing Nonlinearities in Polymer Solutions.. <i>ACS Photonics</i> , 2022 , 9, 722-728	6.3	1
72	Thermalization of Light & Orbital Angular Momentum in Nonlinear Multimode Waveguide Systems.. <i>Physical Review Letters</i> , 2022 , 128, 123901	7.4	1
71	Transforming Space with Non-Hermitian Dielectrics.. <i>Physical Review Letters</i> , 2022 , 128, 183901	7.4	1
70	Transient growth and dissipative exceptional points.. <i>Physical Review E</i> , 2021 , 104, 054218	2.4	1
69	Transport and spectral features in non-Hermitian open systems. <i>Physical Review Research</i> , 2021 , 3,	3.9	8
68	Nonlinear tuning of PT symmetry and non-Hermitian topological states. <i>Science</i> , 2021 , 372, 72-76	33.3	38
67	Non-Hermiticity-Governed Active Photonic Resonances. <i>Physical Review Letters</i> , 2021 , 126, 163901	7.4	3
66	Nonlinear scattering by non-Hermitian multilayers with saturation effects. <i>Physical Review E</i> , 2021 , 103, 052205	2.4	2
65	Light Confinement by Local Index Tailoring in Inhomogeneous Dielectrics. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2100115	8.3	
64	Statistical mechanics of weakly nonlinear optical multimode gases. <i>Optics Letters</i> , 2020 , 45, 1651-1654	3	9
63	Tornado waves. <i>Optics Letters</i> , 2020 , 45, 280	3	15
62	Scattering-free channels of invisibility across non-Hermitian media. <i>Optica</i> , 2020 , 7, 619	8.6	8
61	Non-Hermitian disorder in two-dimensional optical lattices. <i>Physical Review B</i> , 2020 , 101,	3.3	38
60	Shape-preserving beam transmission through non-Hermitian disordered lattices. <i>Physical Review A</i> , 2020 , 102,	2.6	7
59	Equal-intensity waves in non-Hermitian media. <i>Physical Review E</i> , 2020 , 102, 032203	2.4	3
58	Scattering-free pulse propagation through invisible non-Hermitian media. <i>Physical Review B</i> , 2019 , 99,	3.3	13
57	Thermodynamic conditions governing the optical temperature and chemical potential in nonlinear highly multimoded photonic systems. <i>Optics Letters</i> , 2019 , 44, 3936-3939	3	11

56	Power-law scaling of extreme dynamics near higher-order exceptional points. <i>Physical Review A</i> , 2018 , 97,	2.6	18
55	Non-Hermitian physics and PT symmetry. <i>Nature Physics</i> , 2018 , 14, 11-19	16.2	820
54	Dispersive non-Hermitian optical heterostructures. <i>Photonics Research</i> , 2018 , 6, A1	6	6
53	Introduction to non-Hermitian photonics in complex media: PT-symmetry and beyond. <i>Photonics Research</i> , 2018 , 6, PTS1	6	11
52	Constant-Intensity Waves in Non-Hermitian Media. <i>Springer Tracts in Modern Physics</i> , 2018 , 535-555	0.1	0
51	Constant-pressure sound waves in non-Hermitian disordered media. <i>Nature Physics</i> , 2018 , 14, 942-947	16.2	50
50	Topologically protected bound states in photonic parity-time-symmetric crystals. <i>Nature Materials</i> , 2017 , 16, 433-438	27	414
49	Invariant superoscillatory electromagnetic fields in 3D-space. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 014003	1.7	4
48	Non-Hermitian focusing deep inside strongly disordered scattering media 2017 ,		1
47	Wave propagation through disordered media without backscattering and intensity variations. <i>Light: Science and Applications</i> , 2017 , 6, e17035	16.7	39
46	Optical fluxes in coupled PT-symmetric photonic structures. <i>Physical Review A</i> , 2017 , 96,	2.6	5
45	Wave control in non-Hermitian disordered media 2017 ,		1
44	Twofold PT symmetry in doubly exponential optical lattices. <i>Physical Review A</i> , 2016 , 93,	2.6	9
43	$\mathcal{P}\mathcal{T}$ -symmetry breaking in the steady state of microscopic gain-loss systems. <i>New Journal of Physics</i> , 2016 , 18, 095003	2.9	47
42	Nonparaxial abruptly autofocusing beams. <i>Optics Letters</i> , 2016 , 41, 1042-5	3	44
41	Constant Intensity Supermodes in Non-Hermitian Lattices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 42-47	3.8	9
40	Modulational instability in a PT-symmetric vector nonlinear Schrödinger system. <i>Physica D: Nonlinear Phenomena</i> , 2016 , 336, 53-61	3.3	6
39	Constant-intensity waves and their modulation instability in non-Hermitian potentials. <i>Nature Communications</i> , 2015 , 6, 7257	17.4	78

38	Improving the quality of filament-impaired images in Kerr media by statistical averaging. <i>Optics Express</i> , 2015 , 23, 431-44	3.3	1
37	Parity-time (PT) symmetric topological interface states 2015 ,		1
36	Scattering in PT and RT-symmetric multimode waveguides: Generalized conservation laws and spontaneous symmetry breaking beyond one dimension. <i>Physical Review A</i> , 2015 , 92,	2.6	30
35	Spectral method for efficient computation of time-dependent phenomena in complex lasers. <i>Physical Review A</i> , 2015 , 92,	2.6	5
34	Scalable numerical approach for the steady-state ab initio laser theory. <i>Physical Review A</i> , 2014 , 90,	2.6	35
33	Observation of accelerating Wannier-Stark beams in optically induced photonic lattices. <i>Optics Letters</i> , 2014 , 39, 1065-8	3	9
32	Accelerating diffraction-free beams in photonic lattices. <i>Optics Letters</i> , 2014 , 39, 2129-32	3	12
31	Anomalous Transient Amplification of Waves in Non-normal Photonic Media. <i>Physical Review X</i> , 2014 , 4,	9.1	17
30	Experimental generation of arbitrarily shaped diffractionless superoscillatory optical beams. <i>Optics Express</i> , 2013 , 21, 13425-35	3.3	44
29	Breaking of PT Symmetry in Bounded and Unbounded Scattering Systems. <i>Physical Review X</i> , 2013 , 3,	9.1	53
28	Self-accelerating beams in photonic crystals. <i>Optics Express</i> , 2013 , 21, 8886-96	3.3	32
27	Local PT invariance and supersymmetric parametric oscillators. <i>Physical Review A</i> , 2012 , 86,	2.6	31
26	Superoscillatory diffraction-free beams. <i>Optics Letters</i> , 2011 , 36, 4335-7	3	45
25	(mathcal{PT})-Symmetric Periodic Optical Potentials. <i>International Journal of Theoretical Physics</i> , 2011 , 50, 1019-1041	1.1	128
24	Huygens-Bresnel diffraction and evanescent waves. <i>Optics Communications</i> , 2011 , 284, 1686-1689	2	10
23	Discrete beam acceleration in uniform waveguide arrays. <i>Physical Review A</i> , 2011 , 84,	2.6	26
22	Observation of parity-time symmetry in optics. <i>Nature Physics</i> , 2010 , 6, 192-195	16.2	2161
21	PT-symmetric optical lattices. <i>Physical Review A</i> , 2010 , 81,	2.6	243

20	Experimental observation of Rabi oscillations in photonic lattices. <i>Physical Review Letters</i> , 2009 , 102, 123905	7.4	78
19	Analysis of a three-core adiabatic directional coupler. <i>Optics Communications</i> , 2009 , 282, 4524-4526	2	24
18	Beam dynamics in PT symmetric optical lattices. <i>Physical Review Letters</i> , 2008 , 100, 103904	7.4	1363
17	Optical transitions and Rabi oscillations in waveguide arrays. <i>Optics Express</i> , 2008 , 16, 10309-14	3.3	41
16	Optical spatial solitons at the interface between two dissimilar periodic media: theory and experiment. <i>Optics Express</i> , 2008 , 16, 10480-92	3.3	24
15	Optical solitons in PT periodic potentials. <i>Physical Review Letters</i> , 2008 , 100, 030402	7.4	947
14	Analytical solutions to a class of nonlinear Schrödinger equations with {cal PT}-like potentials. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 244019	2	109
13	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
12	Observation of two-dimensional surface solitons. <i>Physical Review Letters</i> , 2007 , 98, 123903	7.4	129
11	Theory of coupled optical PT-symmetric structures. <i>Optics Letters</i> , 2007 , 32, 2632-4	3	867
10	Power thresholds of families of discrete surface solitons. <i>Optics Letters</i> , 2007 , 32, 3098-100	3	22
9	Optical modes at the interface between two dissimilar discrete meta-materials. <i>Optics Express</i> , 2007 , 15, 4663-70	3.3	29
8	Observation of discrete surface solitons. <i>Physical Review Letters</i> , 2006 , 96, 063901	7.4	210
7	Method of images in optical discrete systems. <i>Physical Review E</i> , 2006 , 73, 036616	2.4	24
6	All-optical switching and multifrequency generation in a dual-core photonic crystal fiber. <i>Optics Letters</i> , 2006 , 31, 1480-2	3	69
5	Surface lattice solitons. <i>Optics Letters</i> , 2006 , 31, 2774-6	3	93
4	Solitons in dispersion-inverted AlGaAs nanowires. <i>Optics Express</i> , 2006 , 14, 2277-82	3.3	13
3	Observation of discrete quadratic surface solitons. <i>Optics Express</i> , 2006 , 14, 5508-16	3.3	63

- 2 Nonlocal incoherent spatial solitons in liquid crystals. *Journal of the Optical Society of America B: Optical Physics*, **2005**, 22, 1371 1.7 23
- 1 Discrete surface solitons. *Optics Letters*, **2005**, 30, 2466-8 3 211