

# Konstantinos G Makris

## List of Publications by Year in descending order

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98  
papers

12,380  
citations

117625

34  
h-index

82547

72  
g-index

99  
all docs

99  
docs citations

99  
times ranked

3931  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of parity-time symmetry in optics. Nature Physics, 2010, 6, 192-195.	16.7	2,860
2	Beam Dynamics in $P$ -Symmetric Optical Lattices. Physical Review Letters, 2008, 100, 103904.	7.8	1,724
3	Non-Hermitian physics and PT symmetry. Nature Physics, 2018, 14, 11-19.	16.7	1,620
4	Optical Solitons in $P$ -Symmetric Periodic Potentials. Physical Review Letters, 2008, 100, 030402.	7.8	1,142
5	Theory of coupled optical PT-symmetric structures. Optics Letters, 2007, 32, 2632.	3.3	1,104
6	Topologically protected bound states in photonic parity-time-symmetric crystals. Nature Materials, 2017, 16, 433-438.	27.5	639
7	$PT$ -symmetric optical lattices. Physical Review A, 2010, 81, .	2.5	276
8	Discrete surface solitons. Optics Letters, 2005, 30, 2466.	3.3	262
9	Observation of Discrete Surface Solitons. Physical Review Letters, 2006, 96, 063901.	7.8	255
10	Nonlinear tuning of PT symmetry and non-Hermitian topological states. Science, 2021, 372, 72-76.	12.6	157
11	Observation of Two-Dimensional Surface Solitons. Physical Review Letters, 2007, 98, 123903.	7.8	154
12	$PT$ -Symmetric Periodic Optical Potentials. International Journal of Theoretical Physics, 2011, 50, 1019-1041.	1.2	152
13	Analytical solutions to a class of nonlinear Schrödinger equations with $PT$ -like potentials. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 244019.	2.1	130
14	Surface lattice solitons. Optics Letters, 2006, 31, 2774.	3.3	109
15	Constant-intensity waves and their modulation instability in non-Hermitian potentials. Nature Communications, 2015, 6, 7257.	12.8	105
16	Experimental Observation of Rabi Oscillations in Photonic Lattices. Physical Review Letters, 2009, 102, 123905.	7.8	92
17	Constant-pressure sound waves in non-Hermitian disordered media. Nature Physics, 2018, 14, 942-947.	16.7	85
18	All-optical switching and multifrequency generation in a dual-core photonic crystal fiber. Optics Letters, 2006, 31, 1480.	3.3	84

#	ARTICLE	IF	CITATIONS
19	Observation of discrete quadratic surface solitons. <i>Optics Express</i> , 2006, 14, 5508.	3.4	79
20	Non-Hermitian disorder in two-dimensional optical lattices. <i>Physical Review B</i> , 2020, 101, .	3.2	79
21	Breaking of PT Symmetry in Bounded and Unbounded Scattering Systems. <i>Physical Review X</i> , 2013, 3, .	8.9	67
22	Nonparaxial abruptly autofocusing beams. <i>Optics Letters</i> , 2016, 41, 1042.	3.3	67
23	$\mathcal{P}\mathcal{T}$ -symmetry breaking in the steady state of microscopic gain-loss systems. <i>New Journal of Physics</i> , 2016, 18, 095003.	2.9	63
24	Wave propagation through disordered media without backscattering and intensity variations. <i>Light: Science and Applications</i> , 2017, 6, e17035-e17035.	16.6	60
25	Superoscillatory diffraction-free beams. <i>Optics Letters</i> , 2011, 36, 4335.	3.3	58
26	Experimental generation of arbitrarily shaped diffractionless superoscillatory optical beams. <i>Optics Express</i> , 2013, 21, 13425.	3.4	51
27	Optical transitions and Rabi oscillations in waveguide arrays. <i>Optics Express</i> , 2008, 16, 10309.	3.4	46
28	Scalable numerical approach for the steady-state <i>ab initio</i> laser theory. <i>Physical Review A</i> , 2014, 90, .	2.5	40
29	Scattering in $\mathcal{P}\mathcal{T}$ -symmetric and multimode waveguides: Generalized conservation laws and spontaneous symmetry breaking beyond one dimension. <i>Physical Review A</i> , 2015, 92, .	2.5	40
30	Tornado waves. <i>Optics Letters</i> , 2020, 45, 280.	3.3	39
31	Self-accelerating beams in photonic crystals. <i>Optics Express</i> , 2013, 21, 8886.	3.4	37
32	Thermodynamic conditions governing the optical temperature and chemical potential in nonlinear highly multimoded photonic systems. <i>Optics Letters</i> , 2019, 44, 3936.	3.3	36
33	OBSERVATION OF ONE- AND TWO-DIMENSIONAL DISCRETE SURFACE SPATIAL SOLITONS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2007, 16, 401-426.	1.8	35
34	Optical modes at the interface between two dissimilar discrete meta-materials. <i>Optics Express</i> , 2007, 15, 4663.	3.4	35
35	Local $\mathcal{P}\mathcal{T}$ -invariance and supersymmetric parametric oscillators. <i>Physical Review A</i> , 2012, 86, .	2.5	34
36	Power-law scaling of extreme dynamics near higher-order exceptional points. <i>Physical Review A</i> , 2018, 97, .	2.5	31

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37	Discrete beam acceleration in uniform waveguide arrays. <i>Physical Review A</i> , 2011, 84, .	2.5	30
38	Statistical mechanics of weakly nonlinear optical multimode gases. <i>Optics Letters</i> , 2020, 45, 1651.	3.3	30
39	Anomalous Transient Amplification of Waves in Non-normal Photonic Media. <i>Physical Review X</i> , 2014, 4, .	8.9	28
40	Transport and spectral features in non-Hermitian open systems. <i>Physical Review Research</i> , 2021, 3, .	3.6	28
41	Nonlocal incoherent spatial solitons in liquid crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 1371.	2.1	26
42	Power thresholds of families of discrete surface solitons. <i>Optics Letters</i> , 2007, 32, 3098.	3.3	26
43	Method of images in optical discrete systems. <i>Physical Review E</i> , 2006, 73, 036616.	2.1	25
44	Optical spatial solitons at the interface between two dissimilar periodic media: theory and experiment. <i>Optics Express</i> , 2008, 16, 10480.	3.4	25
45	Analysis of a three-core adiabatic directional coupler. <i>Optics Communications</i> , 2009, 282, 4524-4526.	2.1	25
46	Scattering-free channels of invisibility across non-Hermitian media. <i>Optica</i> , 2020, 7, 619.	9.3	24
47	Solitons in dispersion-inverted AlGaAs nanowires. <i>Optics Express</i> , 2006, 14, 2277.	3.4	19
48	Scattering-free pulse propagation through invisible non-Hermitian media. <i>Physical Review B</i> , 2019, 99, .	3.2	17
49	Twofold $PT$ symmetry in doubly exponential optical lattices. <i>Physical Review A</i> , 2016, 93, .	2.5	16
50	Huygens's Fresnel diffraction and evanescent waves. <i>Optics Communications</i> , 2011, 284, 1686-1689.	2.1	15
51	Accelerating diffraction-free beams in photonic lattices. <i>Optics Letters</i> , 2014, 39, 2129.	3.3	15
52	Introduction to non-Hermitian photonics in complex media: $PT$ -symmetry and beyond. <i>Photonics Research</i> , 2018, 6, PTS1.	7.0	14
53	Transient growth and dissipative exceptional points. <i>Physical Review E</i> , 2021, 104, 054218.	2.1	14
54	Constant Intensity Supermodes in Non-Hermitian Lattices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 42-47.	2.9	13

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55	Shape-preserving beam transmission through non-Hermitian disordered lattices. <i>Physical Review A</i> , 2020, 102, .	2.5	13
56	Non-Hermiticity-Governed Active Photonic Resonances. <i>Physical Review Letters</i> , 2021, 126, 163901.	7.8	13
57	Observation of photonic constant-intensity waves and induced transparency in tailored non-Hermitian lattices. <i>Science Advances</i> , 2022, 8, .	10.3	13
58	Observation of accelerating Wannier–Stark beams in optically induced photonic lattices. <i>Optics Letters</i> , 2014, 39, 1065.	3.3	12
59	Equal-intensity waves in non-Hermitian media. <i>Physical Review E</i> , 2020, 102, 032203.	2.1	12
60	Thermalization of Light’s Orbital Angular Momentum in Nonlinear Multimode Waveguide Systems. <i>Physical Review Letters</i> , 2022, 128, 123901.	7.8	12
61	Modulational instability in a PT-symmetric vector nonlinear Schrödinger system. <i>Physica D: Nonlinear Phenomena</i> , 2016, 336, 53-61.	2.8	11
62	Spectral method for efficient computation of time-dependent phenomena in complex lasers. <i>Physical Review A</i> , 2015, 92, .	2.5	9
63	Dispersive non-Hermitian optical heterostructures. <i>Photonics Research</i> , 2018, 6, A1.	7.0	8
64	Spiraling light: Generating optical tornados. <i>Physical Review A</i> , 2022, 105, .	2.5	8
65	Invariant superoscillatory electromagnetic fields in 3D-space. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 014003.	2.2	7
66	Optical fluxes in coupled PT -symmetric photonic structures. <i>Physical Review A</i> , 2017, 96, .	2.5	7
67	Transforming Space with Non-Hermitian Dielectrics. <i>Physical Review Letters</i> , 2022, 128, 183901.	7.8	7
68	Improving the quality of filament-impaired images in Kerr media by statistical averaging. <i>Optics Express</i> , 2015, 23, 431.	3.4	2
69	Nonlinear scattering by non-Hermitian multilayers with saturation effects. <i>Physical Review E</i> , 2021, 103, 052205.	2.1	2
70	Intermixed Time-Dependent Self-Focusing and Defocusing Nonlinearities in Polymer Solutions. <i>ACS Photonics</i> , 2022, 9, 722-728.	6.6	2
71	Parity-time (PT) symmetric topological interface states. , 2015, , .		1
72	Wave control in non-Hermitian disordered media. , 2017, , .		1

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73	Non-Hermitian focusing deep inside strongly disordered scattering media. , 2017, , .		1
74	Constant-Intensity Waves in Non-Hermitian Media. Springer Tracts in Modern Physics, 2018, , 535-555.	0.1	1
75	Nonlinear Surface Waves at the Interface of Discrete and Continuous Media. , 2006, , .		0
76	Power Threshold of Discrete Surface Solitons. , 2007, , .		0
77	Observation of two-dimensional discrete surface solitons and surface gap solitons. , 2007, , .		0
78	<title>Discrete one dimensional surface solitons</title>. , 2007, , .		0
79	Experimental Demonstration of Optical Wave Propagation in PT-Symmetric Potentials. , 2009, , .		0
80	Unidirectional phase exchange in local PT-symmetric coupled systems. , 2012, , .		0
81	Polarization characteristics of superoscillatory beams. , 2013, , .		0
82	Complex beam dynamics in PT-symmetric optical lattices. , 2013, , .		0
83	Giant amplification of light in non-hermitian photonic materials (Presentation Recording). , 2015, , .		0
84	Phase transitions in dispersive non-Hermitian optical systems. , 2016, , .		0
85	Non-Hermitian Wave Control in Scattering Disordered Media. , 2018, , .		0
86	Radially and Angularly Accelerating Optical Wave-Packets. , 2019, , .		0
87	Generation of Tornado Waves. , 2021, , .		0
88	Nonlinear Control of PT-symmetry and Topological States. , 2021, , .		0
89	Local tailoring of light in inhomogeneous scattering media. , 2021, , .		0
90	Experimental observation of Tornado Waves. , 2021, , .		0

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91	Light Confinement by Local Index Tailoring in Inhomogeneous Dielectrics. Laser and Photonics Reviews, 2021, 15, 2100115.	8.7	0
92	Nonlinear Control of PT-symmetry and Topological States. , 2021, , .		0
93	Observation of accelerating Wannier-Stark beams in optically induced photonic lattices. , 2012, , .		0
94	Accelerating and diffractionless beams in optical lattices. , 2012, , .		0
95	Multimode PT-symmetric optical structures. , 2012, , .		0
96	Self-Accelerating Beams in Photonic Crystal Slabs. , 2013, , .		0
97	Extreme dynamics near exceptional points. , 2018, , .		0
98	Broadband perfect transmission through non-Hermitian disordered media. , 2018, , .		0