

# 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	Intermixed Time-Dependent Self-Focusing and Defocusing Nonlinearities in Polymer Solutions. ACS Photonics, 2022, 9, 722-728.	6.6	2
2	Thermalization of Light's Orbital Angular Momentum in Nonlinear Multimode Waveguide Systems. Physical Review Letters, 2022, 128, 123901.	7.8	12
3	Transforming Space with Non-Hermitian Dielectrics. Physical Review Letters, 2022, 128, 183901.	7.8	7
4	Spiraling light: Generating optical tornados. Physical Review A, 2022, 105, .	2.5	8
5	Observation of photonic constant-intensity waves and induced transparency in tailored non-Hermitian lattices. Science Advances, 2022, 8, .	10.3	13
6	Generation of Tornado Waves. , 2021, , .		0
7	Transport and spectral features in non-Hermitian open systems. Physical Review Research, 2021, 3, .	3.6	28
8	Nonlinear tuning of PT symmetry and non-Hermitian topological states. Science, 2021, 372, 72-76.	12.6	157
9	Non-Hermiticity-Governed Active Photonic Resonances. Physical Review Letters, 2021, 126, 163901.	7.8	13
10	Nonlinear scattering by non-Hermitian multilayers with saturation effects. Physical Review E, 2021, 103, 052205.	2.1	2
11	Nonlinear Control of PT-symmetry and Topological States. , 2021, , .		0
12	Local tailoring of light in inhomogeneous scattering media. , 2021, , .		0
13	Experimental observation of Tornado Waves. , 2021, , .		0
14	Light Confinement by Local Index Tailoring in Inhomogeneous Dielectrics. Laser and Photonics Reviews, 2021, 15, 2100115.	8.7	0
15	Nonlinear Control of PT-symmetry and Topological States. , 2021, , .		0
16	Transient growth and dissipative exceptional points. Physical Review E, 2021, 104, 054218.	2.1	14
17	Non-Hermitian disorder in two-dimensional optical lattices. Physical Review B, 2020, 101, .	3.2	79
18	Shape-preserving beam transmission through non-Hermitian disordered lattices. Physical Review A, 2020, 102, .	2.5	13

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19	Equal-intensity waves in non-Hermitian media. <i>Physical Review E</i> , 2020, 102, 032203.	2.1	12
20	Statistical mechanics of weakly nonlinear optical multimode gases. <i>Optics Letters</i> , 2020, 45, 1651.	3.3	30
21	Tornado waves. <i>Optics Letters</i> , 2020, 45, 280.	3.3	39
22	Scattering-free channels of invisibility across non-Hermitian media. <i>Optica</i> , 2020, 7, 619.	9.3	24
23	Scattering-free pulse propagation through invisible non-Hermitian media. <i>Physical Review B</i> , 2019, 99, .	3.2	17
24	Radially and Angularly Accelerating Optical Wave-Packets. , 2019, , .		0
25	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
26	Power-law scaling of extreme dynamics near higher-order exceptional points. <i>Physical Review A</i> , 2018, 97, .	2.5	31
27	Non-Hermitian physics and PT symmetry. <i>Nature Physics</i> , 2018, 14, 11-19.	16.7	1,620
28	Constant-Intensity Waves in Non-Hermitian Media. <i>Springer Tracts in Modern Physics</i> , 2018, , 535-555.	0.1	1
29	Non-Hermitian Wave Control in Scattering Disordered Media. , 2018, , .		0
30	Constant-pressure sound waves in non-Hermitian disordered media. <i>Nature Physics</i> , 2018, 14, 942-947.	16.7	85
31	Dispersive non-Hermitian optical heterostructures. <i>Photonics Research</i> , 2018, 6, A1.	7.0	8
32	Introduction to non-Hermitian photonics in complex media: PT-symmetry and beyond. <i>Photonics Research</i> , 2018, 6, PTS1.	7.0	14
33	Extreme dynamics near exceptional points. , 2018, , .		0
34	Broadband perfect transmission through non-Hermitian disordered media. , 2018, , .		0
35	Topologically protected bound states in photonic parity-time-symmetric crystals. <i>Nature Materials</i> , 2017, 16, 433-438.	27.5	639
36	Invariant superoscillatory electromagnetic fields in 3D-space. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 014003.	2.2	7

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37	Wave propagation through disordered media without backscattering and intensity variations. <i>Light: Science and Applications</i> , 2017, 6, e17035-e17035.	16.6	60
38	Optical fluxes in coupled PT -symmetric photonic structures. <i>Physical Review A</i> , 2017, 96, .	2.5	7
39	Wave control in non-Hermitian disordered media. , 2017, , .		1
40	Non-Hermitian focusing deep inside strongly disordered scattering media. , 2017, , .		1
41	$\mathcal{P}\mathcal{T}$ -symmetry breaking in the steady state of microscopic gain-loss systems. <i>New Journal of Physics</i> , 2016, 18, 095003.	2.9	63
42	Phase transitions in dispersive non-Hermitian optical systems. , 2016, , .		0
43	Nonparaxial abruptly autofocusing beams. <i>Optics Letters</i> , 2016, 41, 1042.	3.3	67
44	Constant Intensity Supermodes in Non-Hermitian Lattices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 42-47.	2.9	13
45	Modulational instability in a PT-symmetric vector nonlinear Schrödinger system. <i>Physica D: Nonlinear Phenomena</i> , 2016, 336, 53-61.	2.8	11
46	Twofold $\mathcal{P}\mathcal{T}$ -symmetry in doubly exponential optical lattices. <i>Physical Review A</i> , 2016, 93, .	2.5	16
47	$\mathcal{P}\mathcal{T}$ -symmetric and multimode waveguides: Generalized conservation laws and spontaneous symmetry breaking beyond one dimension. <i>Physical Review A</i> , 2015, 92, .	2.5	40
48	Spectral method for efficient computation of time-dependent phenomena in complex lasers. <i>Physical Review A</i> , 2015, 92, .	2.5	9
49	Constant-intensity waves and their modulation instability in non-Hermitian potentials. <i>Nature Communications</i> , 2015, 6, 7257.	12.8	105
50	Improving the quality of filament-impaired images in Kerr media by statistical averaging. <i>Optics Express</i> , 2015, 23, 431.	3.4	2
51	Parity-time (PT) symmetric topological interface states. , 2015, , .		1
52	Giant amplification of light in non-hermitian photonic materials (Presentation Recording). , 2015, , .		0
53	Anomalous Transient Amplification of Waves in Non-normal Photonic Media. <i>Physical Review X</i> , 2014, 4, .	8.9	28
54	Scalable numerical approach for the steady-state <i>ab initio</i> laser theory. <i>Physical Review A</i> , 2014, 90, .	2.5	40

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55	Observation of accelerating Wannier-Stark beams in optically induced photonic lattices. Optics Letters, 2014, 39, 1065.	3.3	12
56	Accelerating diffraction-free beams in photonic lattices. Optics Letters, 2014, 39, 2129.	3.3	15
57	Polarization characteristics of superoscillatory beams. , 2013, , .		0
58	Experimental generation of arbitrarily shaped diffractionless superoscillatory optical beams. Optics Express, 2013, 21, 13425.	3.4	51
59	Breaking of PT-Symmetry in Bounded and Unbounded Scattering Systems. Physical Review X, 2013, 3, .	8.9	67
60	Complex beam dynamics in PT-symmetric optical lattices. , 2013, , .		0
61	Self-accelerating beams in photonic crystals. Optics Express, 2013, 21, 8886.	3.4	37
62	Self-Accelerating Beams in Photonic Crystal Slabs. , 2013, , .		0
63	Unidirectional phase exchange in local PT-symmetric coupled systems. , 2012, , .		0
64	Local $PT$ -invariance and supersymmetric parametric oscillators. Physical Review A, 2012, 86, .	2.5	34
65	Observation of accelerating Wannier-Stark beams in optically induced photonic lattices. , 2012, , .		0
66	Accelerating and diffractionless beams in optical lattices. , 2012, , .		0
67	Multimode PT-symmetric optical structures. , 2012, , .		0
68	Superoscillatory diffraction-free beams. Optics Letters, 2011, 36, 4335.	3.3	58
69	$PT$ -Symmetric Periodic Optical Potentials. International Journal of Theoretical Physics, 2011, 50, 1019-1041.	1.2	152
70	Huygens-Fresnel diffraction and evanescent waves. Optics Communications, 2011, 284, 1686-1689.	2.1	15
71	Discrete beam acceleration in uniform waveguide arrays. Physical Review A, 2011, 84, .	2.5	30
72	Observation of parity-time symmetry in optics. Nature Physics, 2010, 6, 192-195.	16.7	2,860

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73	$\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ display}=\text{"inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant}=\text{"script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -symmetric optical lattices. Physical Review A, 2010, 81, .	2.5	276
74	Experimental Observation of Rabi Oscillations in Photonic Lattices. Physical Review Letters, 2009, 102, 123905.	7.8	92
75	Experimental Demonstration of Optical Wave Propagation in PT-Symmetric Potentials. , 2009, , .		0
76	Analysis of a three-core adiabatic directional coupler. Optics Communications, 2009, 282, 4524-4526.	2.1	25
77	Beam Dynamics in $\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ display}=\text{"inline"} \rangle \langle \text{mml:mi mathvariant}=\text{"script"} \rangle \text{P} \langle \text{mml:mi} \rangle \langle \text{mml:mi mathvariant}=\text{"script"} \rangle \text{T} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Symmetric Optical Lattices. Physical Review Letters, 2008, 100, 103904.	7.8	1,724
78	Optical transitions and Rabi oscillations in waveguide arrays. Optics Express, 2008, 16, 10309.	3.4	46
79	Optical spatial solitons at the interface between two dissimilar periodic media: theory and experiment. Optics Express, 2008, 16, 10480.	3.4	25
80	Optical Solitons in $\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ display}=\text{"inline"} \rangle \langle \text{mml:mi mathvariant}=\text{"script"} \rangle \text{P} \langle \text{mml:mi} \rangle \langle \text{mml:mi mathvariant}=\text{"script"} \rangle \text{T} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Periodic Potentials. Physical Review Letters, 2008, 100, 030402.	7.8	1,142
81	Analytical solutions to a class of nonlinear Schrödinger equations with {cal PT} -like potentials. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 244019.	2.1	130
82	Power Threshold of Discrete Surface Solitons. , 2007, , .		0
83	OBSERVATION OF ONE- AND TWO-DIMENSIONAL DISCRETE SURFACE SPATIAL SOLITONS. Journal of Nonlinear Optical Physics and Materials, 2007, 16, 401-426.	1.8	35
84	Observation of Two-Dimensional Surface Solitons. Physical Review Letters, 2007, 98, 123903.	7.8	154
85	Observation of two-dimensional discrete surface solitons and surface gap solitons. , 2007, , .		0
86	$\langle \text{title} \rangle$ Discrete one dimensional surface solitons $\langle \text{title} \rangle$ . , 2007, , .		0
87	Theory of coupled optical PT-symmetric structures. Optics Letters, 2007, 32, 2632.	3.3	1,104
88	Power thresholds of families of discrete surface solitons. Optics Letters, 2007, 32, 3098.	3.3	26
89	Optical modes at the interface between two dissimilar discrete meta-materials. Optics Express, 2007, 15, 4663.	3.4	35
90	All-optical switching and multifrequency generation in a dual-core photonic crystal fiber. Optics Letters, 2006, 31, 1480.	3.3	84

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91	Surface lattice solitons. Optics Letters, 2006, 31, 2774.	3.3	109
92	Solitons in dispersion-inverted AlGaAs nanowires. Optics Express, 2006, 14, 2277.	3.4	19
93	Observation of discrete quadratic surface solitons. Optics Express, 2006, 14, 5508.	3.4	79
94	Nonlinear Surface Waves at the Interface of Discrete and Continuous Media. , 2006, , .		0
95	Observation of Discrete Surface Solitons. Physical Review Letters, 2006, 96, 063901.	7.8	255
96	Method of images in optical discrete systems. Physical Review E, 2006, 73, 036616.	2.1	25
97	Nonlocal incoherent spatial solitons in liquid crystals. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1371.	2.1	26
98	Discrete surface solitons. Optics Letters, 2005, 30, 2466.	3.3	262