

Tsampikos Kottos

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

5,949
citations

172457

29
h-index

71685

76
g-index

90
all docs

90
docs citations

90
times ranked

2628
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-linear coherent perfect absorption in the proximity of exceptional points. Communications Physics, 2022, 5, .	5.3	15
2	A reflective millimeter-wave photonic limiter. Science Advances, 2022, 8, eabh1827.	10.3	4
3	Enhanced energy harvesting near exceptional points in systems with (pseudo-)PT-symmetry. Communications Physics, 2021, 4, .	5.3	12
4	Extreme Nonreciprocal Near-Field Thermal Radiation via Floquet Photonics. Physical Review Letters, 2021, 126, 204101.	7.8	15
5	Enhanced avionic sensing based on Wigner's cusp anomalies. Science Advances, 2021, 7, .	10.3	4
6	Scaling theory of absorption in the frozen mode regime. Optics Letters, 2021, 46, 3053.	3.3	6
7	Universal route for the emergence of exceptional points in PT-symmetric metamaterials with unfolding spectral symmetries. New Journal of Physics, 2021, 23, 063079.	2.9	7
8	Controlling optical beam thermalization via band-gap engineering. Physical Review Research, 2021, 3, .	3.6	9
9	Implementation of Optimal Thermal Radiation Pumps Using Adiabatically Modulated Photonic Cavities. ACS Photonics, 2021, 8, 2973-2979.	6.6	2
10	Perfect absorption in complex scattering systems with or without hidden symmetries. Nature Communications, 2020, 11, 5826.	12.8	33
11	Optical Phase Transitions in Photonic Networks: a Spin-System Formulation. Physical Review X, 2020, 10, .	8.9	21
12	Non-Hermitian C -Symmetric Spectral Protection of Nonlinear Defect Modes. Physical Review Letters, 2020, 125, 113901.	7.8	13
13	Self-Shielded Topological Receiver Protectors. Physical Review Applied, 2020, 13, .	3.8	9
14	Robust Scattered Fields from Adiabatically Driven Targets around Exceptional Points. Physical Review Letters, 2020, 124, 133905.	7.8	10
15	Environmentally Induced Exceptional Points in Elastodynamics. Physical Review Applied, 2020, 13, .	3.8	26
16	Coherent virtual absorption of light in microring resonators. Physical Review Research, 2020, 2, .	3.6	10
17	Orientation-sensed optomechanical accelerometers based on exceptional points. Physical Review Research, 2020, 2, .	3.6	14
18	Enhanced nonlinear instabilities in photonic circuits with exceptional point degeneracies. Photonics Research, 2020, 8, 737.	7.0	7

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19	Asymmetric acoustic energy transport in non-Hermitian metamaterials. Journal of the Acoustical Society of America, 2019, 146, 863-872.	1.1	15
20	Light-induced optical switching in an asymmetric metal-dielectric microcavity with phase-change material. Europhysics Letters, 2019, 126, 64003.	2.0	2
21	Adiabatic Thermal Radiation Pumps for Thermal Photonics. Physical Review Letters, 2019, 123, 165901.	7.8	17
22	Dynamically modulated perfect absorbers. Physical Review A, 2019, 99, .	2.5	9
23	Coherent Wave Propagation in Multimode Systems with Correlated Noise. Physical Review Letters, 2019, 122, 153903.	7.8	2
24	Design Algorithms of Driving-Induced Nonreciprocal Components. Physical Review Applied, 2019, 11, .	3.8	2
25	Single-mode lasing by selective mode pairing. Science, 2019, 363, 586-587.	12.6	3
26	Nonreciprocity in Photonic Structures with Phase-Change Components. Physical Review Applied, 2019, 11, .	3.8	16
27	Enhanced Sensing and Nondegraded Thermal Noise Performance Based on P -Symmetric Electronic Circuits with a Sixth-Order Exceptional Point. Physical Review Letters, 2019, 123, 213901.	7.8	109
28	Microwave Limiters Implemented by Coupled Dielectric Resonators Based on a Topological Defect Mode and CT-Symmetry Breaking. Acta Physica Polonica A, 2019, 136, 790-796.	0.5	5
29	Effects of disorder in frozen-mode light. Optics Letters, 2019, 44, 2891.	3.3	10
30	Driving-induced metamorphosis of transport in arrays of coupled resonators. Physical Review A, 2018, 97, .	2.5	8
31	Floquet protocols of adiabatic state flips and reallocation of exceptional points. Physical Review A, 2018, 97, .	2.5	6
32	Floquet-Network Theory of Nonreciprocal Transport. Physical Review Applied, 2018, 9, .	3.8	27
33	Self-regulated transport in photonic crystals with phase-changing defects. Physical Review A, 2018, 97, .	2.5	4
34	Reflective limiters based on self-induced violation of CT symmetry. Physical Review A, 2018, 97, .	2.5	4
35	Statistical description of transport in multimode fibers with mode-dependent loss. New Journal of Physics, 2018, 20, 113028.	2.9	7
36	Floquet scattering theory based on effective Hamiltonians of driven systems. Physical Review B, 2018, 98, .	3.2	13

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37	Statistical design of chaotic waveforms with enhanced targeting capabilities. Physical Review B, 2018, 98, .	3.2	6
38	Waveguide photonic limiters based on topologically protected resonant modes. Physical Review B, 2017, 95, .	3.2	15
39	Random Matrix Theory Approach to Chaotic Coherent Perfect Absorbers. Physical Review Letters, 2017, 118, 044101.	7.8	41
40	Experimental Realization of Floquet P -Symmetric Systems. Physical Review Letters, 2017, 119, 093901.	7.8	92
41	Frozen mode regime in finite periodic structures. Physical Review B, 2017, 96, .	3.2	18
42	Topologically induced optical limiter. , 2017, , .		0
43	Distribution of zeros of the S -matrix of chaotic cavities with localized losses and coherent perfect absorption: non-perturbative results. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 30LT01.	2.1	28
44	Design scalable photonic crystals as reflective optical limiters. , 2016, , .		1
45	Hypersensitive transport in asymmetric photonic layered media. , 2016, , .		0
46	Experimental Realization of a Reflective Optical Limiter. Physical Review Applied, 2016, 5, .	3.8	41
47	Resistor-network anomalies in the heat transport of random harmonic chains. Physical Review E, 2016, 93, 062138.	2.1	1
48	Low-temperature linear thermal rectifiers based on Coriolis forces. Physical Review E, 2016, 93, 042115.	2.1	2
49	Hypersensitive Transport in Photonic Crystals with Accidental Spatial Degeneracies. Scientific Reports, 2016, 6, 22169.	3.3	8
50	Synthetic Structures with Parity-Time Symmetry. Springer Series in Optical Sciences, 2016, , 147-162.	0.7	2
51	Light scattering in pseudopassive media with uniformly balanced gain and loss. Physical Review A, 2015, 91, .	2.5	16
52	Thermal transport in phononic Cayley-tree networks. Physical Review E, 2015, 91, 042125.	2.1	2
53	Reflective optical limiter based on resonant transmission. Physical Review A, 2015, 91, .	2.5	27
54	Linear thermal circulator based on Coriolis forces. Physical Review E, 2015, 91, 020101.	2.1	5

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55	Optical isolation via \mathcal{P} -symmetric nonlinear Fano resonances. Optics Express, 2014, 22, 9574.	3.4	119
56	Light localization induced by a random imaginary refractive index. Physical Review A, 2014, 90, .	2.5	38
57	Reconfigurable Directional Lasing Modes in Cavities with Generalized \mathcal{P} -Symmetry. Physical Review Letters, 2014, 112, 253902.	7.8	29
58	Unidirectional Lasing Emerging from Frozen Light in Nonreciprocal Cavities. Physical Review Letters, 2014, 112, 043904.	7.8	43
59	Concept of a reflective power limiter based on nonlinear localized modes. Physical Review A, 2014, 89, .	2.5	41
60	Observation of Asymmetric Transport in Structures with Active Nonlinearities. Physical Review Letters, 2013, 110, 234101.	7.8	262
61	Taming the flow of light via Parity-Time Symmetry. , 2013, , .		0
62	Observation of anomalous diffusion in a 1D optical random dimer. , 2013, , .		0
63	Superballistic transport in hybrid photonic lattices. , 2013, , .		0
64	Bypassing the bandwidth theorem with \mathcal{PT} -symmetry. Physical Review A, 2012, 85, .	2.5	107
65	Bragg solitons in nonlinear \mathcal{PT} -symmetric periodic potentials. Physical Review A, 2012, 86, .	2.5	95
66	\mathcal{PT} -symmetric electronics. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 444029.	2.1	231
67	Experimental observation of the dual behavior of \mathcal{PT} -symmetric scattering. Physical Review A, 2012, 85, .	2.5	111
68	Exceptional-point dynamics in photonic honeycomb lattices with \mathcal{PT} -symmetry. Physical Review A, 2012, 85, .	2.5	90
69	Light transport in random media with \mathcal{PT} -symmetry. Physical Review A, 2012, 85, .	2.5	24
70	Unidirectional Invisibility Induced by \mathcal{P} -Symmetric Periodic Structures. Physical Review Letters, 2011, 106, 213901.	7.8	1,496
71	Matter-wave scattering on a BEC in a double-well potential. European Physical Journal D, 2011, 63, 55-61.	1.3	3
72	Experimental study of active \mathcal{LRC} circuits with \mathcal{PT} -symmetries. Physical Review A, 2011, 84, .	2.5	672

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73	Ab initio description of nonlinear dynamics of coupled microdisk resonators with application to self-trapping dynamics. Physical Review A, 2011, 83, .	2.5	7
74	Thermalization of strongly disordered nonlinear chains. Physical Review E, 2011, 83, 062103.	2.1	19
75	Broken symmetry makes light work. Nature Physics, 2010, 6, 166-167.	16.7	194
76	Random-matrix modeling of semilinear response, the generalized variable-range hopping picture, and the conductance of mesoscopic rings. Physical Review B, 2010, 81, .	3.2	6
77	Quantum dynamics in the bosonic Josephson junction. Physical Review A, 2010, 82, .	2.5	72
78	$\langle \text{PT} \rangle$ optical lattices and universality in beam dynamics. Physical Review A, 2010, 82, .	2.5	212
79	Unidirectional nonlinear $\langle \text{PT} \rangle$ -symmetric optical structures. Physical Review A, 2010, 82, .	2.5	571
80	Wave-packet dynamics in energy space of a chaotic trimeric Bose-Hubbard system. Physical Review A, 2009, 79, .	2.5	42
81	Fidelity in Quasi-1D Systems as a Probe for Anderson Localization. Acta Physica Polonica A, 2009, 116, 756-764.	0.5	1
82	Scaling properties of delay times in one-dimensional random media. Physical Review B, 2008, 77, .	3.2	2
83	Controlled quantum stirring of Bose-Einstein condensates. Physical Review A, 2008, 78, .	2.5	4
84	Bifurcations in resonance widths of an open Bose-Hubbard dimer. Physical Review A, 2006, 73, .	2.5	47
85	Complexity in parametric Bose-Hubbard Hamiltonians and structural analysis of eigenstates. Physical Review A, 2006, 73, .	2.5	44
86	Statistical properties of resonance widths for open quantum graphs. Waves in Random and Complex Media, 2004, 14, S91-S105.	1.5	13
87	Scars on Quantum Networks Ignore the Lyapunov Exponent. Physical Review Letters, 2003, 90, 234101.	7.8	46
88	Quantum graphs: a model for quantum chaos. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 9, 523-530.	2.7	31
89	Chaotic Scattering on Graphs. Physical Review Letters, 2000, 85, 968-971.	7.8	123
90	Quantum Chaos on Graphs. Physical Review Letters, 1997, 79, 4794-4797.	7.8	373