

Li Ge

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.

82
papers

5,586
citations

34
h-index

74
g-index

99
ext. papers

6,873
ext. citations

7
avg, IF

6.28
L-index

#	Paper	IF	Citations
82	Direct observation of zero modes in a non-Hermitian optical nanocavity array. <i>Photonics Research</i> , 2022 , 10, 574	6	2
81	Vortex radiation from a single emitter in a chiral plasmonic nanocavity. <i>Nanophotonics</i> , 2022 ,	6.3	1
80	Extraordinary Fast Forward and Backward Light in Transparent Non-Hermitian Systems. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000204	8.3	0
79	Non-Hermiticity-Governed Active Photonic Resonances. <i>Physical Review Letters</i> , 2021 , 126, 163901	7.4	3
78	Direct observation of chaotic resonances in optical microcavities. <i>Light: Science and Applications</i> , 2021 , 10, 135	16.7	4
77	Chiral symmetry in non-Hermitian systems: Product rule and Clifford algebra. <i>Physical Review B</i> , 2021 , 103,	3.3	1
76	Twisted light on a chip. <i>Science</i> , 2020 , 368, 707-708	33.3	2
75	Origin of robust exceptional points: Restricted bulk zero mode. <i>Physical Review A</i> , 2020 , 101,	2.6	2
74	Revealing the missing dimension at an exceptional point. <i>Nature Physics</i> , 2020 , 16, 571-578	16.2	39
73	Synthetic Anti-PT Symmetry in a Single Microcavity. <i>Physical Review Letters</i> , 2020 , 124, 053901	7.4	40
72	Ultrafast control of vortex microlasers. <i>Science</i> , 2020 , 367, 1018-1021	33.3	210
71	Nonlinear and Novel Phenomena in Non-Hermitian Photonics. <i>Advances in Dynamics, Patterns, Cognition</i> , 2020 , 227-248	0.7	0
70	Pseudochirality: A Manifestation of Noether's Theorem in Non-Hermitian Systems. <i>Physical Review Letters</i> , 2020 , 125, 083902	7.4	5
69	Parity-Time Symmetry Synthetic Lasers: Physics and Devices. <i>Advanced Optical Materials</i> , 2019 , 7, 1900698.1	8.1	16
68	All-optical control of lead halide perovskite microlasers. <i>Nature Communications</i> , 2019 , 10, 1770	17.4	77
67	Defect States Emerging from a Non-Hermitian Flatband of Photonic Zero Modes. <i>Physical Review Letters</i> , 2018 , 120, 093901	7.4	55
66	Stable switching among high-order modes in polariton condensates. <i>Physical Review B</i> , 2018 , 97,	3.3	16

65	Non-Hermitian lattices with a flat band and polynomial power increase [Invited]. <i>Photonics Research</i> , 2018 , 6, A10	6	31
64	Optical microcavities: new understandings and developments: publisher's note. <i>Photonics Research</i> , 2018 , 6, 89	6	
63	Transporting the Optical Chirality through the Dynamical Barriers in Optical Microcavities. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800027	8.3	17
62	Quantum chaos in optical microcavities: A broadband application. <i>Europhysics Letters</i> , 2018 , 123, 64001	1.6	3
61	Contrasting eigenvalue and singular-value spectra for lasing and antilasing in a PT-symmetric periodic structure. <i>Physical Review A</i> , 2017 , 95,	2.6	21
60	Symmetry, stability, and computation of degenerate lasing modes. <i>Physical Review A</i> , 2017 , 95,	2.6	4
59	Symmetry-protected zero-mode laser with a tunable spatial profile. <i>Physical Review A</i> , 2017 , 95,	2.6	42
58	Experimental Demonstration of Spontaneous Chirality in a Nonlinear Microresonator. <i>Physical Review Letters</i> , 2017 , 118, 033901	7.4	76
57	Condensation of thresholds in multimode microlasers. <i>Physical Review A</i> , 2017 , 95,	2.6	2
56	Quasiparity-Time Symmetric Microdisk Laser. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700052	8.3	16
55	Optical fluxes in coupled PT-symmetric photonic structures. <i>Physical Review A</i> , 2017 , 96,	2.6	5
54	Non-Hermitian photonics based on parity-time symmetry. <i>Nature Photonics</i> , 2017 , 11, 752-762	33.9	509
53	Observation of gain spiking of optical frequency comb in a microcavity. <i>Optics Express</i> , 2017 , 25, 31140-31147	3.1	2
52	Constructing the scattering matrix for optical microcavities as a nonlocal boundary value problem. <i>Photonics Research</i> , 2017 , 5, B20	6	2
51	Optical microcavities: new understandings and developments. <i>Photonics Research</i> , 2017 , 5, OM1	6	11
50	Interaction-induced mode switching in steady-state microlasers. <i>Optics Express</i> , 2016 , 24, 41-54	3.3	9
49	Nonlinear modal interactions in parity-time (PT) symmetric lasers. <i>Scientific Reports</i> , 2016 , 6, 24889	4.9	58
48	Anomalous parity-time symmetry transition away from an exceptional point. <i>Physical Review A</i> , 2016 , 94,	2.6	9

47	Optical-reciprocity-induced symmetry in photonic heterostructures and its manifestation in scattering PT-symmetry breaking. <i>Physical Review A</i> , 2016 , 94,	2.6	14
46	Metawaveguide for Asymmetric Interferometric Light-Light Switching. <i>Physical Review Letters</i> , 2016 , 117, 193901	7.4	36
45	Nonlinear Modal Interactions in PT-Symmetric Lasers 2016 ,		1
44	Controlling mode competition by tailoring the spatial pump distribution in a laser: a resonance-based approach. <i>Optics Express</i> , 2016 , 24, 26006-26015	3.3	13
43	Controlling a microdisk laser by local refractive index perturbation. <i>Applied Physics Letters</i> , 2016 , 108, 051105	3.4	3
42	Non-Hermitian engineering of single mode two dimensional laser arrays. <i>Scientific Reports</i> , 2016 , 6, 33253	4.9	30
41	Rotation-induced evolution of far-field emission patterns of deformed microdisk cavities. <i>Optica</i> , 2015 , 2, 323	8.6	21
40	Optical resonances in rotating dielectric microcavities of deformed shape. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 1736	1.7	6
39	Selective excitation of lasing modes by controlling modal interactions. <i>Optics Express</i> , 2015 , 23, 30049-56	3.3	8
38	Inverse Vernier effect in coupled lasers. <i>Physical Review A</i> , 2015 , 92,	2.6	10
37	Supersymmetric laser arrays. <i>Physical Review A</i> , 2015 , 92,	2.6	40
36	Parity-time symmetry in a flat-band system. <i>Physical Review A</i> , 2015 , 92,	2.6	52
35	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
34	Threshold current reduction and directional emission of deformed microdisk lasers via spatially selective electrical pumping. <i>Applied Physics Letters</i> , 2015 , 107, 151106	3.4	10
33	Pump-controlled modal interactions in microdisk lasers. <i>Physical Review A</i> , 2015 , 91,	2.6	24
32	Rotating optical microcavities with broken chiral symmetry. <i>Physical Review Letters</i> , 2015 , 114, 053903	7.4	38
31	Enhancement of laser power-efficiency by control of spatial hole burning interactions. <i>Nature Photonics</i> , 2014 , 8, 871-875	33.9	29
30	Manipulation of high-order scattering processes in ultrasmall optical resonators to control far-field emission. <i>Physical Review Letters</i> , 2014 , 112, 163902	7.4	5

29	Active control of emission directionality of semiconductor microdisk lasers. <i>Applied Physics Letters</i> , 2014 , 104, 231108	3.4	60
28	Rotation-induced mode coupling in open wavelength-scale microcavities. <i>Physical Review A</i> , 2014 , 90,	2.6	14
27	Exceptional points and lasing self-termination in photonic molecules. <i>Physical Review A</i> , 2014 , 90,	2.6	65
26	Parity-Time Symmetry Breaking beyond One Dimension: The Role of Degeneracy. <i>Physical Review X</i> , 2014 , 4,	9.1	69
25	Controlling multimode coupling by boundary-wave scattering. <i>Physical Review A</i> , 2013 , 88,	2.6	16
24	Gain-tunable optomechanical cooling in a laser cavity. <i>Physical Review A</i> , 2013 , 87,	2.6	10
23	Breaking of PT Symmetry in Bounded and Unbounded Scattering Systems. <i>Physical Review X</i> , 2013 , 3,	9.1	53
22	Antisymmetric PT-photonic structures with balanced positive- and negative-index materials. <i>Physical Review A</i> , 2013 , 88,	2.6	89
21	Extreme output sensitivity to subwavelength boundary deformation in microcavities. <i>Physical Review A</i> , 2013 , 87,	2.6	28
20	Formation of long-lived resonances in hexagonal cavities by strong coupling of superscar modes. <i>Physical Review A</i> , 2013 , 88,	2.6	30
19	Pump-induced exceptional points in lasers. <i>Physical Review Letters</i> , 2012 , 108, 173901	7.4	318
18	Channeling chaotic rays into waveguides for efficient collection of microcavity emission. <i>Physical Review Letters</i> , 2012 , 108, 243902	7.4	76
17	Steady-state ab initio laser theory for N-level lasers. <i>Optics Express</i> , 2012 , 20, 474-88	3.3	30
16	Directional waveguide coupling from a wavelength-scale deformed microdisk laser. <i>Applied Physics Letters</i> , 2012 , 100, 061125	3.4	12
15	Local chirality of optical resonances in ultrasmall resonators. <i>Physical Review Letters</i> , 2012 , 108, 253902	7.4	37
14	Conservation relations and anisotropic transmission resonances in one-dimensional PT-symmetric photonic heterostructures. <i>Physical Review A</i> , 2012 , 85,	2.6	270
13	Time-reversed lasing and interferometric control of absorption. <i>Science</i> , 2011 , 331, 889-92	33.3	508
12	PT-symmetry breaking and laser-absorber modes in optical scattering systems. <i>Physical Review Letters</i> , 2011 , 106, 093902	7.4	666

11	Modes of random lasers. <i>Advances in Optics and Photonics</i> , 2011 , 3, 88	16.7	145
10	Wavelength-scale deformed microdisk lasers. <i>Physical Review A</i> , 2011 , 84,	2.6	23
9	Unconventional modes in lasers with spatially varying gain and loss. <i>Physical Review A</i> , 2011 , 84,	2.6	79
8	Steady-state ab initio laser theory: Generalizations and analytic results. <i>Physical Review A</i> , 2010 , 82,	2.6	87
7	Directional laser emission from a wavelength-scale chaotic microcavity. <i>Physical Review Letters</i> , 2010 , 105, 103902	7.4	105
6	Coherent perfect absorbers: time-reversed lasers. <i>Physical Review Letters</i> , 2010 , 105, 053901	7.4	676
5	Effects of spatially nonuniform gain on lasing modes in weakly scattering random systems. <i>Physical Review A</i> , 2010 , 81,	2.6	36
4	Ab initio self-consistent laser theory and random lasers. <i>Nonlinearity</i> , 2009 , 22, C1-C18	1.7	40
3	Quantitative verification of ab initio self-consistent laser theory. <i>Optics Express</i> , 2008 , 16, 16895-902	3.3	37
2	Strong interactions in multimode random lasers. <i>Science</i> , 2008 , 320, 643-6	33.3	298
1	Theory of the spatial structure of nonlinear lasing modes. <i>Physical Review A</i> , 2007 , 76,	2.6	48