

Li Ge

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

7,849
citations

94433

37
h-index

60623

81
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99
all docs

99
docs citations

99
times ranked

4417
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of zero modes in a non-Hermitian optical nanocavity array. <i>Photonics Research</i> , 2022, 10, 574.	7.0	11
2	Vortex radiation from a single emitter in a chiral plasmonic nanocavity. <i>Nanophotonics</i> , 2022, .	6.0	1
3	Chiral symmetry in non-Hermitian systems: Product rule and Clifford algebra. <i>Physical Review B</i> , 2021, 103, .	3.2	13
4	Extraordinary Fast Forward and Backward Light in Transparent Non-Hermitian Systems. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000204.	8.7	2
5	Non-Hermiticity-Governed Active Photonic Resonances. <i>Physical Review Letters</i> , 2021, 126, 163901.	7.8	13
6	Green's function as a defect state in a boundary value problem. <i>Physical Review B</i> , 2021, 103, .	3.2	0
7	Direct observation of chaotic resonances in optical microcavities. <i>Light: Science and Applications</i> , 2021, 10, 135.	16.6	17
8	Pseudochirality: A Manifestation of Noether's Theorem in Non-Hermitian Systems. <i>Physical Review Letters</i> , 2020, 125, 083902.	7.8	16
9	Twisted light on a chip. <i>Science</i> , 2020, 368, 707-708.	12.6	4
10	Origin of robust exceptional points: Restricted bulk zero mode. <i>Physical Review A</i> , 2020, 101, .	2.5	5
11	Revealing the missing dimension at an exceptional point. <i>Nature Physics</i> , 2020, 16, 571-578.	16.7	100
12	Synthetic Anti-PT Symmetry in a Single Microcavity. <i>Physical Review Letters</i> , 2020, 124, 053901.	7.8	98
13	Ultrafast control of vortex microlasers. <i>Science</i> , 2020, 367, 1018-1021.	12.6	457
14	Nonlinear and Novel Phenomena in Non-Hermitian Photonics. <i>Advances in Dynamics, Patterns, Cognition</i> , 2020, , 227-248.	0.3	2
15	Origin of robust exceptional points: Restricted bulk zero-mode. , 2020, , .		0
16	Time-reversal-invariant scaling of light propagation in one-dimensional non-Hermitian systems. <i>Physical Review A</i> , 2019, 100, .	2.5	4
17	Parity-Time Symmetry Synthetic Lasers: Physics and Devices. <i>Advanced Optical Materials</i> , 2019, 7, 1900694.	7.3	40
18	All-optical control of lead halide perovskite microlasers. <i>Nature Communications</i> , 2019, 10, 1770.	12.8	104

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19	Time-reversal invariant scaling of light propagation in one-dimensional non-Hermitian systems. , 2019, , .		0
20	Defect States Emerging from a Non-Hermitian Flatband of Photonic Zero Modes. Physical Review Letters, 2018, 120, 093901.	7.8	83
21	Stable switching among high-order modes in polariton condensates. Physical Review B, 2018, 97, .	3.2	32
22	Quantum chaos in optical microcavities: A broadband application. Europhysics Letters, 2018, 123, 64001.	2.0	5
23	Non-Hermitian lattices with a flat band and polynomial power increase [Invited]. Photonics Research, 2018, 6, A10.	7.0	48
24	Transporting the Optical Chirality through the Dynamical Barriers in Optical Microcavities. Laser and Photonics Reviews, 2018, 12, 1800027.	8.7	22
25	Complex Mirror Symmetry in Optics. , 2018, , .		0
26	Linear Localization of non-Hermitian Photonic Zero Modes. , 2018, , .		0
27	Linear Localization of non-Hermitian Photonic Zero Modes. , 2018, , .		0
28	Contrasting eigenvalue and singular-value spectra for lasing and antilasing in a PT -symmetric periodic structure. Physical Review A, 2017, 95, .	2.5	26
29	Symmetry, stability, and computation of degenerate lasing modes. Physical Review A, 2017, 95, .	2.5	4
30	Symmetry-protected zero-mode laser with a tunable spatial profile. Physical Review A, 2017, 95, .	2.5	64
31	Experimental Demonstration of Spontaneous Chirality in a Nonlinear Microresonator. Physical Review Letters, 2017, 118, 033901.	7.8	149
32	Condensation of thresholds in multimode microlasers. Physical Review A, 2017, 95, .	2.5	4
33	Quasiparity- \mathcal{T} Symmetric Microdisk Laser. Laser and Photonics Reviews, 2017, 11, 1700052.	8.7	23
34	Optical fluxes in coupled PT -symmetric photonic structures. Physical Review A, 2017, 96, .	2.5	7
35	Non-Hermitian photonics based on parity- \mathcal{T} symmetry. Nature Photonics, 2017, 11, 752-762.	31.4	917
36	Observation of gain spiking of optical frequency comb in a microcavity. Optics Express, 2017, 25, 31140.	3.4	4

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37	Constructing the scattering matrix for optical microcavities as a nonlocal boundary value problem. Photonics Research, 2017, 5, B20.	7.0	8
38	Optical microcavities: new understandings and developments. Photonics Research, 2017, 5, OM1.	7.0	15
39	Non-Hermitian Particle-Hole Symmetry and its Implications in Photonic Systems. , 2017, , .		0
40	Spontaneous chiral symmetry breaking in a nonlinear microresonator. , 2017, , .		0
41	Defect States Emerging from a non-Hermitian Flat Band of Photonic Zero Modes. , 2017, , .		0
42	Controlling mode competition by tailoring the spatial pump distribution in a laser: a resonance-based approach. Optics Express, 2016, 24, 26006.	3.4	16
43	Controlling a microdisk laser by local refractive index perturbation. Applied Physics Letters, 2016, 108, .	3.3	3
44	Non-Hermitian engineering of single mode two dimensional laser arrays. Scientific Reports, 2016, 6, 33253.	3.3	45
45	Interaction-induced mode switching in steady-state microlasers. Optics Express, 2016, 24, 41.	3.4	12
46	Nonlinear modal interactions in parity-time (PT) symmetric lasers. Scientific Reports, 2016, 6, 24889.	3.3	81
47	Anomalous parity-timeâ€“symmetry transition away from an exceptional point. Physical Review A, 2016, 94, .	2.5	13
48	Optical-reciprocity-induced symmetry in photonic heterostructures and its manifestation in scattering $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetry breaking. Physical Review A, 2016, 94, .	2.5	19
49	Metawaveguide for Asymmetric Interferometric Light-Light Switching. Physical Review Letters, 2016, 117, 193901.	7.8	49
50	Nonlinear Modal Interactions in PT-Symmetric Lasers. , 2016, , .		1
51	Scattering in PT and RT Symmetric Multimode Waveguides: Generalized Conservation Laws beyond 1D. , 2016, , .		0
52	Asymmetric Light-Light Interaction by Non-Hermitian Photonics. , 2016, , .		0
53	Selective excitation of lasing modes by controlling modal interactions. Optics Express, 2015, 23, 30049.	3.4	10
54	Inverse Vernier effect in coupled lasers. Physical Review A, 2015, 92, .	2.5	16

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55	Supersymmetric laser arrays. <i>Physical Review A</i> , 2015, 92, .	2.5	56
56	Parity-time symmetry in a flat-band system. <i>Physical Review A</i> , 2015, 92, .	2.5	63
57	Scattering in PT -symmetric multimode waveguides: Generalized conservation laws and spontaneous symmetry breaking beyond one dimension. <i>Physical Review A</i> , 2015, 92, .	2.5	40
58	Threshold current reduction and directional emission of deformed microdisk lasers via spatially selective electrical pumping. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	14
59	Pump-controlled modal interactions in microdisk lasers. <i>Physical Review A</i> , 2015, 91, .	2.5	32
60	Rotating Optical Microcavities with Broken Chiral Symmetry. <i>Physical Review Letters</i> , 2015, 114, 053903.	7.8	51
61	Rotation-induced evolution of far-field emission patterns of deformed microdisk cavities. <i>Optica</i> , 2015, 2, 323.	9.3	28
62	Optical resonances in rotating dielectric microcavities of deformed shape. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1736.	2.1	8
63	Coherent Perfect Absorbers and Coherent Enhancement of Absorption. , 2015, , .		0
64	Manipulation of High-Order Scattering Processes in Ultrasmall Optical Resonators to Control Far-Field Emission. <i>Physical Review Letters</i> , 2014, 112, 163902.	7.8	7
65	Active control of emission directionality of semiconductor microdisk lasers. <i>Applied Physics Letters</i> , 2014, 104, 231108.	3.3	75
66	Rotation-induced mode coupling in open wavelength-scale microcavities. <i>Physical Review A</i> , 2014, 90, .	2.5	17
67	Exceptional points and lasing self-termination in photonic molecules. <i>Physical Review A</i> , 2014, 90, .	2.5	79
68	Parity-Time Symmetry Breaking beyond One Dimension: The Role of Degeneracy. <i>Physical Review X</i> , 2014, 4, .	8.9	83
69	Enhancement of laser power-efficiency by control of spatial hole burning interactions. <i>Nature Photonics</i> , 2014, 8, 871-875.	31.4	35
70	Controlling multimode coupling by boundary-wave scattering. <i>Physical Review A</i> , 2013, 88, .	2.5	20
71	Gain-tunable optomechanical cooling in a laser cavity. <i>Physical Review A</i> , 2013, 87, .	2.5	14
72	Breaking of PT -Symmetry in Bounded and Unbounded Scattering Systems. <i>Physical Review X</i> , 2013, 3, .	8.9	67

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73	Antisymmetric $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -photonic structures with balanced positive- and negative-index materials. Physical Review A, 2013, 88, .	2.5	157
74	Extreme output sensitivity to subwavelength boundary deformation in microcavities. Physical Review A, 2013, 87, .	2.5	31
75	Formation of long-lived resonances in hexagonal cavities by strong coupling of superscar modes. Physical Review A, 2013, 88, .	2.5	37
76	Steady-state ab initio laser theory for N-level lasers. Optics Express, 2012, 20, 474.	3.4	32
77	Directional waveguide coupling from a wavelength-scale deformed microdisk laser. Applied Physics Letters, 2012, 100, .	3.3	12
78	Local Chirality of Optical Resonances in Ultrasmall Resonators. Physical Review Letters, 2012, 108, 253902.	7.8	47
79	Conservation relations and anisotropic transmission resonances in one-dimensional $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric photonic heterostructures. Physical Review A, 2012, 85, .	2.5	354
80	Pump-Induced Exceptional Points in Lasers. Physical Review Letters, 2012, 108, 173901.	7.8	396
81	Channeling Chaotic Rays into Waveguides for Efficient Collection of Microcavity Emission. Physical Review Letters, 2012, 108, 243902.	7.8	85
82	Time-Reversed Lasing and Interferometric Control of Absorption. Science, 2011, 331, 889-892.	12.6	673
83	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi mathvariant="script"} \rangle \text{P} \langle \text{mml:mi} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{T} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Symmetry Breaking and Laser-Absorber Modes in Optical Scattering Systems. Physical Review Letters, 2011, 106, 093902.	7.8	820
84	Modes of random lasers. Advances in Optics and Photonics, 2011, 3, 88.	25.5	163
85	Wavelength-scale deformed microdisk lasers. Physical Review A, 2011, 84, .	2.5	24
86	Unconventional modes in lasers with spatially varying gain and loss. Physical Review A, 2011, 84, .	2.5	92
87	Laser emission and coherent control of absorption in complex and random systems. , 2011, , .		0
88	Effects of spatially nonuniform gain on lasing modes in weakly scattering random systems. Physical Review A, 2010, 81, .	2.5	39
89	Steady-state $\langle \text{i} \rangle$ ab initio $\langle \text{i} \rangle$ laser theory: Generalizations and analytic results. Physical Review A, 2010, 82, .	2.5	114
90	Directional Laser Emission from a Wavelength-Scale Chaotic Microcavity. Physical Review Letters, 2010, 105, 103902.	7.8	119

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91	Coherent Perfect Absorbers: Time-Reversed Lasers. Physical Review Letters, 2010, 105, 053901.	7.8	912
92	Observation of Two-Port Coherent Perfect Absorber. , 2010, , .		0
93	Coherent perfect absorption and anomalous scattering in balanced gain/loss structures. , 2010, , .		0
94	Ab initio self-consistent laser theory and random lasers. Nonlinearity, 2009, 22, C1-C18.	1.4	44
95	Quantitative verification of ab initio self-consistent laser theory. Optics Express, 2008, 16, 16895.	3.4	42
96	Strong Interactions in Multimode Random Lasers. Science, 2008, 320, 643-646.	12.6	348
97	Ab-initio Semiclassical Multimode Lasing Theory of Chaotic Cavity Lasers. , 2008, , .		0
98	Theory of the spatial structure of nonlinear lasing modes. Physical Review A, 2007, 76, .	2.5	56