

Exceptional points enhance sensing in an optical microcavity

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Exceptional points make for exceptional sensors. <i>Physics Today</i> , 2017, 70, 23-26.	0.3	11
2	Floquet exceptional points and chirality in non-Hermitian Hamiltonians. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 505201.	0.7	35
3	Optical sensing gets exceptional. <i>Nature</i> , 2017, 548, 161-162.	13.7	14
4	Click and discover. <i>Nature</i> , 2017, 548, 162-164.	13.7	3
5	Spectral signatures of exceptional points and bifurcations in the fundamental active photonic dimer. <i>Physical Review A</i> , 2017, 96, .	1.0	23
6	Enhanced nonlinear frequency conversion and Purcell enhancement at exceptional points. <i>Physical Review B</i> , 2017, 96, .	1.1	28
7	Parity-time symmetry meets photonics: A new twist in non-Hermitian optics. <i>Europhysics Letters</i> , 2017, 120, 64001.	0.7	222
8	Two-dimensional imaging and modification of nanophotonic resonator modes using a focused ion beam. <i>Optica</i> , 2017, 4, 1444.	4.8	10
9	All-optical control of ultrahigh-Q silica microcavities with iron oxide nanoparticles. <i>Optics Letters</i> , 2017, 42, 5133.	1.7	23
10	Non-Hermitian robust edge states in one dimension: Anomalous localization and eigenspace condensation at exceptional points. <i>Physical Review B</i> , 2018, 97, .	1.1	447
11	Pair of Exceptional Points in a Microdisk Cavity under an Extremely Weak Deformation. <i>Physical Review Letters</i> , 2018, 120, 093902.	2.9	40
12	Enhanced response of non-Hermitian photonic systems near exceptional points. <i>Physical Review A</i> , 2018, 97, .	1.0	12
13	Cross-polarization mode coupling and exceptional points in photonic crystal slabs. <i>Physical Review A</i> , 2018, 97, .	1.0	25
14	Effect of non-Hermiticity on adiabatic elimination in coupled waveguides. <i>Physical Review A</i> , 2018, 97, .	1.0	4
15	Parity-time-symmetric coupled asymmetric dimers. <i>Physical Review A</i> , 2018, 97, .	1.0	39
16	Parity-time symmetric photonics. <i>National Science Review</i> , 2018, 5, 183-199.	4.6	76
17	Lead Halide Perovskite Based Microdisk Lasers for On-Chip Integrated Photonic Circuits. <i>Advanced Optical Materials</i> , 2018, 6, 1701266.	3.6	48
18	Observation of bulk Fermi arc and polarization half charge from paired exceptional points. <i>Science</i> , 2018, 359, 1009-1012.	6.0	438

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20	Exceptional point engineered glass slide for microscopic thermal mapping. Nature Communications, 2018, 9, 1764.	5.8	37
21	On-Chip Spiral Waveguides for Ultrasensitive and Rapid Detection of Nanoscale Objects. Advanced Materials, 2018, 30, e1800262.	11.1	49
22	Laminated graphene oxide-supported high-efficiency microwave absorber fabricated by an in situ growth approach. Carbon, 2018, 129, 310-320.	5.4	138
23	Observation of slowly decaying eigenmodes without exceptional points in Floquet dissipative synthetic circuits. Communications Physics, 2018, 1, .	2.0	26
24	Winding around non-Hermitian singularities. Nature Communications, 2018, 9, 4808.	5.8	65
25	Unidirectional light emission in PT-symmetric microring lasers. Optics Express, 2018, 26, 27153.	1.7	41
26	Exceptional Points in Whispering-Gallery Microcavities. , 2018, , .		0
27	Accessing the Exceptional Points in Coupled Fabry-Perot Resonators through Hybrid Integration. ACS Photonics, 2018, 5, 4920-4927.	3.2	13
28	Nonadiabatic Modal Dynamics Around Exceptional Points in an All-Lossy Dual-Mode Optical Waveguide: Toward Chirality-Driven Asymmetric Mode Conversion. Physical Review Applied, 2018, 10, .	1.5	21
29	Role of nonorthogonality of energy eigenstates in quantum systems with localized losses. Physical Review A, 2018, 98, .	1.0	6
30	Light dynamics in PT -symmetric multilayers: Phase transition, nonreciprocity, and propagation direction locking. Journal of Physics: Conference Series, 2018, 1092, 012100.	0.3	1
31	Phase-sensitive photothermal imaging of ultrahigh-Q polyoxide toroidal microresonators. Applied Physics Letters, 2018, 113, 231105.	1.5	3
32	Non-Hermiticity and conservation of orthogonal relation in dielectric microcavity. Journal of Physics Communications, 2018, 2, 075007.	0.5	5
33	Higher Order Exceptional Points in Discrete Photonics Platforms. Springer Tracts in Modern Physics, 2018, , 261-275.	0.1	8
34	PT-Symmetry and Non-Hermitian Wave Transport in Microwaves and RF Circuits. Springer Tracts in Modern Physics, 2018, , 351-405.	0.1	0
35	Non-Hermitian Effects Due to Asymmetric Backscattering of Light in Whispering-Gallery Microcavities. Springer Tracts in Modern Physics, 2018, , 155-184.	0.1	2
36	Exceptional points in two dissimilar coupled diode lasers. Applied Physics Letters, 2018, 113, .	1.5	26

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37	Switching Terahertz Waves using Exceptional Points. <i>Physical Review Applied</i> , 2018, 10, .	1.5	9
38	Wave Engineering in Complex Media. , 2018, , .		0
39	Loss-induced transparency in optomechanics. <i>Optics Express</i> , 2018, 26, 25199.	1.7	52
40	Parity-time symmetry in optical microcavity systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 222001.	0.6	45
41	Chiral microresonator assisted by Rydberg-atom ensembles. <i>Physical Review A</i> , 2018, 98, .	1.0	10
42	Non-Hermitian Chern Bands. <i>Physical Review Letters</i> , 2018, 121, 136802.	2.9	593
43	Topological Phases of Non-Hermitian Systems. <i>Physical Review X</i> , 2018, 8, .	2.8	792
44	A Tunable Optofluidic Microlaser in a Photostable Conjugated Polymer. <i>Advanced Materials</i> , 2018, 30, e1804556.	11.1	44
45	Three-Dimensional Anisotropic Microlaser from GaN-Based Self-Bent-Up Microdisk. <i>ACS Photonics</i> , 2018, 5, 4259-4264.	3.2	14
46	Mode coupling inPT-symmetric photonic crystals with a flat band. <i>Physical Review A</i> , 2018, 98, .	1.0	2
47	Active polarization control with a parity-time-symmetric plasmonic resonator. <i>Physical Review B</i> , 2018, 98, .	1.1	12
48	Fundamental limits and non-reciprocal approaches in non-Hermitian quantum sensing. <i>Nature Communications</i> , 2018, 9, 4320.	5.8	191
49	Exceptional points in the Riesz-Feller Hamiltonian with an impenetrable rectangular potential. <i>Physical Review A</i> , 2018, 98, .	1.0	3
50	Topological states of non-Hermitian systems. <i>European Physical Journal: Special Topics</i> , 2018, 227, 1295-1308.	1.2	210
51	Anomalous helical edge states in a non-Hermitian Chern insulator. <i>Physical Review B</i> , 2018, 98, .	1.1	156
52	Curved Nanomembrane-Based Concentric Ring Cavities for Supermode Hybridization. <i>Nano Letters</i> , 2018, 18, 7261-7267.	4.5	15
53	Parity-time symmetry along with nonlocal optical solitons and their active controls in a Rydberg atomic gas. <i>Physical Review A</i> , 2018, 98, .	1.0	23
54	Time-asymmetric loop around an exceptional point over the full optical communications band. <i>Nature</i> , 2018, 562, 86-90.	13.7	139

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56	Simultaneous Observation of a Topological Edge State and Exceptional Point in an Open and Non-Hermitian Acoustic System. Physical Review Letters, 2018, 121, 124501.	2.9	168
57	Wireless whispering-gallery-mode sensor for thermal sensing and aerial mapping. Light: Science and Applications, 2018, 7, 62.	7.7	58
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59	Complex symmetric Hamiltonians and exceptional points of order four and five. Physical Review A, 2018, 98, .	1.0	11
60	Synthesizing exceptional points with three resonators. Physical Review A, 2018, 98, .	1.0	11
61	Nano Bimetallic@Carbon Layer on Porous Carbon Nanofibers with Multiple Interfaces for Microwave Absorption Applications. ACS Applied Nano Materials, 2018, 1, 5712-5721.	2.4	45
62	Wave-scattering method for waveguide microcavity coupling. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 811.	0.9	3
63	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ symmetry breaking in multilayers with resonant loss and gain locks light propagation direction. Physical Review B, 2018, 98, .	1.1	42
64	Polarization-based control of phonon laser action in a Parity Time-symmetric optomechanical system. Communications Physics, 2018, 1, .	2.0	22
65	Pulse shortening in an actively mode-locked laser with parity-time symmetry. APL Photonics, 2018, 3, 086103.	3.0	20
66	Controllable and selective single-mode lasing in polymer microbottle resonator. Optics Express, 2018, 26, 20183.	1.7	10
67	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric circuit QED. Physical Review A, 2018, 97, .	1.0	79
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70	Giant Resonance and Anomalous Quality Factor Scaling in Degenerate Band Edge Coupled Resonator Optical Waveguides. Journal of Lightwave Technology, 2018, 36, 3030-3039.	2.7	24
71	Dark Field Sensors based on Organometallic Halide Perovskite Microlasers. Advanced Materials, 2018, 30, e1801481.	11.1	36
72	Dynamically Encircling Exceptional Points: <i>In Situ</i> Control of Encircling Loops and the Role of the Starting Point. Physical Review X, 2018, 8, .	2.8	106

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73	Whispering gallery modes in a single silica microparticle attached to an optical microfiber and their application for highly sensitive displacement sensing. Optics Express, 2018, 26, 195.	1.7	26
74	Magnon-induced transparency and amplification in \mathcal{P} -symmetric cavity-magnon system. Optics Express, 2018, 26, 20248.	1.7	87
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78	Non-Hermitian lattices with a flat band and polynomial power increase [Invited]. Photonics Research, 2018, 6, A10.	3.4	48
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80	Passive parity-time-symmetry-breaking transitions without exceptional points in dissipative photonic systems [Invited]. Photonics Research, 2018, 6, A51.	3.4	34
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87	A phonon laser operating at an exceptional point. Nature Photonics, 2018, 12, 479-484.	15.6	264
88	All-Optical Tunable Microlaser Based on an Ultrahigh-Q Erbium-Doped Hybrid Microbottle Cavity. ACS Photonics, 2018, 5, 3794-3800.	3.2	58
89	Non-Hermitian dynamics of slowly varying Hamiltonians. Physical Review A, 2018, 98, .	1.0	18
90	Optomechanically Induced Transparency at Exceptional Points. Physical Review Applied, 2018, 10, .	1.5	99

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92	Analytic eigenvalue structure of a coupled-oscillator system beyond the ground state. <i>Physical Review A</i> , 2018, 98, .	1.0	2
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98	Exceptional points by coupling of modes with different angular momenta in deformed microdisks: A perturbative analysis. <i>Physical Review A</i> , 2018, 98, .	1.0	18
99	Incident Direction Independent Wave Propagation and Unidirectional Lasing. <i>Physical Review Letters</i> , 2018, 121, 073901.	2.9	91
100	Parity-time-symmetric topological superconductor. <i>Physical Review B</i> , 2018, 98, .	1.1	132
101	Experimental Demonstration of an Anisotropic Exceptional Point. <i>Physical Review Letters</i> , 2018, 121, 085702.	2.9	80
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103	Level attraction in a microwave optomechanical circuit. <i>Physical Review A</i> , 2018, 98, .	1.0	51
104	Invited Article: Mitigation of dynamical instabilities in laser arrays via non-Hermitian coupling. <i>APL Photonics</i> , 2018, 3, 060802.	3.0	38
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139	Parity-Time Symmetry Synthetic Lasers: Physics and Devices. Advanced Optical Materials, 2019, 7, 1900694.	3.6	40
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146	Dynamically encircling an exceptional point in anti-parity-time symmetric systems: asymmetric mode switching for symmetry-broken modes. <i>Light: Science and Applications</i> , 2019, 8, 88.	7.7	128
147	Non-Hermitian engineering for brighter broadband pseudothermal light. <i>Physical Review A</i> , 2019, 100, .	1.0	4
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149	Encounter of higher order exceptional singularities and towards cascaded state conversion. <i>Physica Scripta</i> , 2019, 94, 085202.	1.2	10
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153	Symmetry-protected nodal phases in non-Hermitian systems. <i>Physical Review B</i> , 2019, 99, .	1.1	183
154	Three-Dimensional Microtubular Devices for Lab-on-a-Chip Sensing Applications. <i>ACS Sensors</i> , 2019, 4, 1476-1496.	4.0	38
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168	Indirect link between resonant and guided modes on uniform and periodic slabs. <i>Physical Review A</i> , 2019, 99, .	1.0	10
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170	Using Backscattering and Backcoupling in Silicon Ring Resonators as a New Degree of Design Freedom. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800244.	4.4	27
171	State conversions around exceptional points. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 485301.	0.7	1
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175	Nonlocal homogenization of PT -symmetric multilayered structures. <i>Physical Review A</i> , 2019, 99, .	1.0	10
176	Scully-Lamb quantum laser model for parity-time-symmetric whispering-gallery microcavities: Gain saturation effects and nonreciprocity. <i>Physical Review A</i> , 2019, 99, .	1.0	43
177	Symmetry protected topological phases characterized by isolated exceptional points. <i>Physical Review B</i> , 2019, 99, .	1.1	45
178	Sensing with Exceptional Surfaces in Order to Combine Sensitivity with Robustness. <i>Physical Review Letters</i> , 2019, 122, 153902.	2.9	141
179	Interference-modulated photon statistics in whispering-gallery-mode microresonator optomechanics. <i>Physical Review A</i> , 2019, 99, .	1.0	9
180	Mode-splitting based optofluidic sensing at exceptional points in tubular microcavities. <i>Optics Communications</i> , 2019, 446, 128-133.	1.0	5

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182	Parity-time-symmetry-enhanced sideband generation in an optomechanical system. <i>Physical Review A</i> , 2019, 99, .	1.0	25
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