

# Enhanced sensitivity at higher-order exceptional points

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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	Optical sensing gets exceptional. <i>Nature</i> , 2017, 548, 161-162.	13.7	14
3	Click and discover. <i>Nature</i> , 2017, 548, 162-164.	13.7	3
4	Chiral state conversion without encircling an exceptional point. <i>Physical Review A</i> , 2017, 96, .	1.0	52
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	Theory of coupled resonator optical waveguides exhibiting high-order exceptional points of degeneracy. <i>Physical Review B</i> , 2017, 96, .	1.1	73
7	On-Chip Glass Microspherical Shell Whispering Gallery Mode Resonators. <i>Scientific Reports</i> , 2017, 7, 14965.	1.6	23
8	Enhanced nonlinear frequency conversion and Purcell enhancement at exceptional points. <i>Physical Review B</i> , 2017, 96, .	1.1	28
9	Parity-time symmetry meets photonics: A new twist in non-Hermitian optics. <i>Europhysics Letters</i> , 2017, 120, 64001.	0.7	222
11	Power-law scaling of extreme dynamics near higher-order exceptional points. <i>Physical Review A</i> , 2018, 97, .	1.0	31
12	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
13	Pair of Exceptional Points in a Microdisk Cavity under an Extremely Weak Deformation. <i>Physical Review Letters</i> , 2018, 120, 093902.	2.9	40
14	Enhanced response of non-Hermitian photonic systems near exceptional points. <i>Physical Review A</i> , 2018, 97, .	1.0	12
15	Raising the $\langle \text{PT} \rangle$ transition threshold by strong coupling to neutral chains. <i>Physical Review A</i> , 2018, 97, .	1.0	3
16	Cross-polarization mode coupling and exceptional points in photonic crystal slabs. <i>Physical Review A</i> , 2018, 97, .	1.0	25
17	Chiral Modes at Exceptional Points in Exciton-Polariton Quantum Fluids. <i>Physical Review Letters</i> , 2018, 120, 065301.	2.9	59
18	Parity-time-symmetric coupled asymmetric dimers. <i>Physical Review A</i> , 2018, 97, .	1.0	39
19	Parity-time symmetric photonics. <i>National Science Review</i> , 2018, 5, 183-199.	4.6	76

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21	Observation of bulk Fermi arc and polarization half charge from paired exceptional points. Science, 2018, 359, 1009-1012.	6.0	438
22	Quantum Transport and Non-Hermiticity on Flat-Band Lattices. Journal of Low Temperature Physics, 2018, 191, 49-60.	0.6	5
23	Optical Pulling and Pushing Forces in Bilayer $-$ Symmetric Structures. Physical Review Applied, 2018, 9, .	1.5	28
24	Non-Hermitian physics and $PT$ symmetry. Nature Physics, 2018, 14, 11-19.	6.5	1,620
25	Exceptional point engineered glass slide for microscopic thermal mapping. Nature Communications, 2018, 9, 1764.	5.8	37
26	Crystalline Waveguides for Optical Gyroscopes. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-11.	1.9	12
27	Fundamental limitations of sensitivity of whispering gallery mode gyroscopes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2289-2295.	0.9	21
28	Observation of slowly decaying eigenmodes without exceptional points in Floquet dissipative synthetic circuits. Communications Physics, 2018, 1, .	2.0	26
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39	PT-Symmetry and Non-Hermitian Wave Transport in Microwaves and RF Circuits. Springer Tracts in Modern Physics, 2018, , 351-405.	0.1	0
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49	Mode coupling inPT-symmetric photonic crystals with a flat band. Physical Review A, 2018, 98, .	1.0	2
50	Fundamental limits and non-reciprocal approaches in non-Hermitian quantum sensing. Nature Communications, 2018, 9, 4320.	5.8	191
51	Topological states of non-Hermitian systems. European Physical Journal: Special Topics, 2018, 227, 1295-1308.	1.2	210
52	Anomalous helical edge states in a non-Hermitian Chern insulator. Physical Review B, 2018, 98, .	1.1	156
53	Parity-time symmetry along with nonlocal optical solitons and their active controls in a Rydberg atomic gas. Physical Review A, 2018, 98, .	1.0	23
54	Time-asymmetric loop around an exceptional point over the full optical communications band. Nature, 2018, 562, 86-90.	13.7	139
55	Amplified Tunnelling from a Pair of Balanced Loss and Gain Cavities. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 1053-1059.	0.7	0

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65	Pulse shortening in an actively mode-locked laser with parity-time symmetry. APL Photonics, 2018, 3, 086103.	3.0	20
66	Transmission Nonreciprocity in a Mutually Coupled Circulating Structure. Physical Review Letters, 2018, 120, 203904.	2.9	48
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75	Bistable lasing in parity-time symmetric coupled fiber rings. Photonics Research, 2018, 6, A18.	3.4	11
76	Parity-time-symmetric whispering-gallery mode nanoparticle sensor [Invited]. Photonics Research, 2018, 6, A23.	3.4	79
77	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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93	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
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103	Non-Bloch Band Theory of Non-Hermitian Systems. <i>Physical Review Letters</i> , 2019, 123, 066404.	2.9	533
104	Direct Generation of Tunable Orbital Angular Momentum Beams in Microring Lasers with Broadband Exceptional Points. <i>ACS Photonics</i> , 2019, 6, 1895-1901.	3.2	44
105	Exceptional Point Enhances Sensitivity of Optomechanical Mass Sensors. <i>Physical Review Applied</i> , 2019, 12, .	1.5	69
106	Asymmetric acoustic energy transport in non-Hermitian metamaterials. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 863-872.	0.5	15
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109	Sensitive readout of implantable microsensors using a wireless system locked to an exceptional point. <i>Nature Electronics</i> , 2019, 2, 335-342.	13.1	125

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177	Topological dynamics of an adiabatically varying Hamiltonian around third order exceptional points. <i>Physica Scripta</i> , 2019, 94, 105509.	1.2	9
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184	Parity-time symmetry and exceptional points in photonics. <i>Nature Materials</i> , 2019, 18, 783-798.	13.3	940
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