# Ramy El-Ganainy

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10888024/publications.pdf

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|---|---|---|---|
| 45<br>papers | 9,129<br>citations | 257450<br>24<br>h-index | 330143<br>37<br>g-index |
| 47<br>all docs | 47<br>docs citations | 47<br>times ranked | 3962<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Observation of parityâ€“time symmetry in optics. Nature Physics, 2010, 6, 192-195. | 16.7 | 2,860 |
| 2 | Non-Hermitian physics and PT symmetry. Nature Physics, 2018, 14, 11-19. | 16.7 | 1,620 |
| 3 | Enhanced sensitivity at higher-order exceptional points. Nature, 2017, 548, 187-191. | 27.8 | 1,115 |
| 4 | Non-Hermitian photonics based on parityâ€“time symmetry. Nature Photonics, 2017, 11, 752-762. | 31.4 | 917 |
| 5 | Unidirectional nonlinear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="script">PT</mml:mi></mml:mrow></mml:math>-symmetric optical structures. Physical Review A, 2010, 82, . | 2.5 | 571 |
| 6 | Topological hybrid silicon microlasers. Nature Communications, 2018, 9, 981. | 12.8 | 345 |
| 7 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="script">PT</mml:mi></mml:mrow></mml:math>-symmetric optical lattices. Physical Review A, 2010, 81, . | 2.5 | 276 |
| 8 | Generalized parityâ€“time symmetry condition for enhanced sensor telemetry. Nature Electronics, 2018, 1, 297-304. | 26.0 | 186 |
| 9 | Supersymmetric Optical Structures. Physical Review Letters, 2013, 110, 233902. | 7.8 | 154 |
| 10 | Supersymmetric mode converters. Nature Communications, 2014, 5, 3698. | 12.8 | 143 |
| 11 | Analytical solutions to a class of nonlinear SchrÃ¶dinger equations with {cal PT} -like potentials. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 244019. | 2.1 | 130 |
| 12 | The dawn of non-Hermitian optics. Communications Physics, 2019, 2, . | 5.3 | 121 |
| 13 | Nonlinear modal interactions in parity-time (PT) symmetric lasers. Scientific Reports, 2016, 6, 24889. | 3.3 | 81 |
| 14 | Supersymmetric laser arrays. Science, 2019, 363, 623-626. | 12.6 | 78 |
| 15 | Winding around non-Hermitian singularities. Nature Communications, 2018, 9, 4808. | 12.8 | 65 |
| 16 | Sculpturing of photonic crystals by ion beam lithography: towards complete photonic bandgap at visible wavelengths. Optics Express, 2011, 19, 5802. | 3.4 | 45 |
| 17 | Non-Hermitian engineering of single mode two dimensional laser arrays. Scientific Reports, 2016, 6, 33253. | 3.3 | 45 |
| 18 | Direct Generation of Tunable Orbital Angular Momentum Beams in Microring Lasers with Broadband Exceptional Points. ACS Photonics, 2019, 6, 1895-1901. | 6.6 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Experimental Realization of Multiple Topological Edge States in a 1D Photonic Lattice. Laser and Photonics Reviews, 2019, 13, 1800202. | 8.7 | 36 |
| 20 | Local<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">PT</mml:mi></mml:math>invariance and supersymmetric parametric oscillators. Physical Review A, 2012, 86, . | 2.5 | 34 |
| 21 | Resonant dipoleâ€“dipole interaction in confined and strong-coupling dielectric geometries. New Journal of Physics, 2013, 15, 083033. | 2.9 | 33 |
| 22 | Optical isolation in topological-edge-state photonic arrays. Optics Letters, 2015, 40, 5275. | 3.3 | 32 |
| 23 | Discrete beam acceleration in uniform waveguide arrays. Physical Review A, 2011, 84, . | 2.5 | 30 |
| 24 | Shockwave based nonlinear optical manipulation in densely scattering opaque suspensions. Optics Express, 2013, 21, 23785. | 3.4 | 27 |
| 25 | Optical Control of Thermocapillary Effects in Complex Nanofluids. Physical Review Letters, 2009, 103, 264503. | 7.8 | 24 |
| 26 | Exceptional points enhance wireless readout. Nature Electronics, 2019, 2, 323-324. | 26.0 | 19 |
| 27 | Symmetry in optics and photonics: a group theory approach. Science Bulletin, 2018, 63, 244-251. | 9.0 | 17 |
| 28 | Toward High-Performing Topological Edge-State Optical Isolators. Physical Review Applied, 2019, 11, . | 3.8 | 17 |
| 29 | Observation of accelerating Wannierâ€“Stark beams in optically induced photonic lattices. Optics Letters, 2014, 39, 1065. | 3.3 | 12 |
| 30 | Light-induced self-synchronizing flow patterns. New Journal of Physics, 2011, 13, 053021. | 2.9 | 9 |
| 31 | On-Chip Multi 4-Port Optical Circulators. IEEE Photonics Journal, 2014, 6, 1-8. | 2.0 | 7 |
| 32 | Crossing exceptional points without phase transition. Scientific Reports, 2019, 9, 134. | 3.3 | 6 |
| 33 | Enhancing optical isolator performance in nonreciprocal waveguide arrays. Optics Letters, 2015, 40, 111. | 3.3 | 5 |
| 34 | On-chip non-Hermitian optical parametric amplifiers with a large bandwidth. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2160. | 2.1 | 5 |
| 35 | Non-Hermitian engineering for brighter broadband pseudothermal light. Physical Review A, 2019, 100, . | 2.5 | 4 |
| 36 | Topological lattices lit at the corners. Nature Photonics, 2019, 13, 660-662. | 31.4 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Supersymmetric mode converters. , 2014, , . | | 2 |
| 38 | Nonlinear PT-Symmetric Optical Diode. , 2010, , . | | 1 |
| 39 | SUSY fibers for integrated optical angular momentum multiplexing. , 2013, , . | | 0 |
| 40 | 1D optical SUSY structures for selective mode filtering. , 2013, , . | | 0 |
| 41 | Observation of supersymmetric dynamics in photonic lattices. , 2014, , . | | 0 |
| 42 | Supersymmetric Laser Arrays. , 2015, , . | | 0 |
| 43 | Experimental Realization of Supersymmetric Laser. , 2018, , . | | 0 |
| 44 | Supersymmetric Laser Arrays. , 2019, , . | | 0 |
| 45 | Quantum-inspired multicore optical fiber. Optics Letters, 2022, 47, 2526-2529. | 3.3 | 0 |