

Dmitry A Zezyulin

List of Publications by Year in descending order

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80
papers

2,712
citations

257101

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182168

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docs citations

81
times ranked

1247
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear waves in $\langle \text{PT} \rangle$ -symmetric systems. <i>Reviews of Modern Physics</i> , 2016, 88, .	16.4	819
2	Solitons in $\langle \text{PT} \rangle$ -symmetric nonlinear lattices. <i>Physical Review A</i> , 2011, 83, .	1.0	265
3	Nonlinear Modes in Finite-Dimensional $\langle \text{PT} \rangle$ -Symmetric Systems. <i>Physical Review Letters</i> , 2012, 108, 213906.	2.9	146
4	Nonlinear modes in the harmonic $\langle \text{PT} \rangle$ -symmetric potential. <i>Physical Review A</i> , 2012, 85, .	1.0	109
5	Stability of solitons in $\langle \text{PT} \rangle$ -symmetric nonlinear potentials. <i>Europhysics Letters</i> , 2011, 96, 64003.	0.7	73
6	Nonlinear modes for the Gross-Pitaevskii equation—a demonstrative computation approach. <i>Nonlinearity</i> , 2007, 20, 2075-2092.	0.6	67
7	Families of stationary modes in complex potentials. <i>Optics Letters</i> , 2014, 39, 5535.	1.7	61
8	Odd-Time Reversal Symmetry Induced by an Anti-Symmetric Medium. <i>Physical Review Letters</i> , 2018, 120, 123902.	2.9	61
9	Coherent perfect absorption of nonlinear matter waves. <i>Science Advances</i> , 2018, 4, eaat6539.	4.7	56
10	Discrete solitons in $\langle \text{PT} \rangle$ -symmetric lattices. <i>Europhysics Letters</i> , 2012, 100, 56006.	0.7	55
11	Bose-Einstein condensates with localized spin-orbit coupling: Soliton complexes and spinor dynamics. <i>Physical Review A</i> , 2014, 90, .	1.0	52
12	Giant amplification of modes in parity-time symmetric waveguides. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2750-2753.	0.9	51
13	Nonlinear modes in binary bosonic condensates with pseudo-spin-orbital coupling. <i>Physical Review A</i> , 2013, 88, .	1.0	50
14	Bloch Oscillations in Optical and Zeeman Lattices in the Presence of Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2016, 117, 215301.	2.9	50
15	Solitons in a medium with linear dissipation and localized gain. <i>Optics Letters</i> , 2011, 36, 1200.	1.7	48
16	Macroscopic Zeno Effect and Stationary Flows in Nonlinear Waveguides with Localized Dissipation. <i>Physical Review Letters</i> , 2012, 109, 020405.	2.9	48
17	Stability of excited states of a Bose-Einstein condensate in an anharmonic trap. <i>Physical Review A</i> , 2008, 78, .	1.0	39
18	Nonlinear modes in a generalized $\langle \text{PT} \rangle$ -symmetric discrete nonlinear Schrödinger equation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 085204.	0.7	32

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19	Stable Multiring and Rotating Solitons in Two-Dimensional Spin-Orbit-Coupled Bose-Einstein Condensates with a Radially Periodic Potential. <i>Physical Review Letters</i> , 2019, 122, 123201.	2.9	32
20	Control of nonlinear modes by scattering-length management in Bose-Einstein condensates. <i>Physical Review A</i> , 2007, 76, .	1.0	31
21	Jamming anomaly in \mathcal{Q} - \mathcal{T} -symmetric systems. <i>New Journal of Physics</i> , 2016, 18, 075015.	1.2	27
22	Phase transition through the splitting of self-dual spectral singularity in optical potentials. <i>Optics Letters</i> , 2017, 42, 5206.	1.7	27
23	\mathcal{CPT} -symmetric spin-orbit-coupled condensate. <i>Europhysics Letters</i> , 2014, 107, 50002.	0.7	26
24	Tunable nonlinear parity-time-symmetric defect modes with an atomic cell. <i>Optics Letters</i> , 2013, 38, 4033.	1.7	24
25	Tunable nonlinear double-core PT-symmetric waveguides. <i>Optics Letters</i> , 2014, 39, 5387.	1.7	24
26	Stationary modes and integrals of motion in nonlinear lattices with a \mathcal{PT} -symmetric linear part. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 415301.	0.7	22
27	Parity-time-symmetric optical coupler with birefringent arms. <i>Physical Review A</i> , 2013, 87, .	1.0	22
28	Discrete solitons in arrays of positive and negative index waveguides. <i>Optics Letters</i> , 2012, 37, 3930.	1.7	21
29	Nonlinear modes in a complex parabolic potential. <i>Physical Review A</i> , 2010, 81, .	1.0	20
30	Stochastic parity-time-symmetric coupler. <i>Optics Letters</i> , 2014, 39, 1223.	1.7	20
31	\mathcal{PT} -symmetric coupler with \mathcal{PT} -symmetric impurity. <i>Physical Review A</i> , 2013, 88, .	1.0	18
32	Stationary through-flows in a Bose-Einstein condensate with a \mathcal{PT} -symmetric impurity. <i>Physical Review A</i> , 2016, 94, .	1.0	17
33	Coherent perfect absorber and laser for nonlinear waves in optical waveguide arrays. <i>Optics Letters</i> , 2018, 43, 5901.	1.7	17
34	Spectral singularities of odd- \mathcal{P} - \mathcal{T} -symmetric potentials. <i>Physical Review A</i> , 2019, 99, .	1.0	15
35	Rotating patterns in polariton condensates in ring-shaped potentials under a bichromatic pump. <i>Optics Letters</i> , 2019, 44, 4805.	1.7	14
36	Dissipative double-well potential: Nonlinear stationary and pulsating modes. <i>Physical Review E</i> , 2010, 82, 056213.	0.8	13

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37	Nonlinear currents in a ring-shaped waveguide with balanced gain and dissipation. <i>Physical Review A</i> , 2016, 94, .	1.0	13
38	Global Existence of Solutions to Coupled \mathcal{PT} -Symmetric Nonlinear Schrödinger Equations. <i>International Journal of Theoretical Physics</i> , 2015, 54, 3920-3931.	0.5	12
39	Dynamic localization in optical and Zeeman lattices in the presence of spin-orbit coupling. <i>Physical Review A</i> , 2016, 94, .	1.0	12
40	Supercritical Blowup in Coupled Parity-Time-Symmetric Nonlinear Schrödinger Equations. <i>Studies in Applied Mathematics</i> , 2014, 133, 422-440.	1.1	11
41	Chiral solitons in spinor polariton rings. <i>Physical Review B</i> , 2018, 97, .	1.1	11
42	Stability of two-dimensional radial excited states of a Bose-Einstein condensate in an anharmonic trap. <i>Physical Review A</i> , 2009, 79, .	1.0	10
43	Oscillatory instabilities of gap solitons in a repulsive Bose-Einstein condensate. <i>Physica D: Nonlinear Phenomena</i> , 2016, 337, 58-66.	1.3	10
44	CPT-symmetric coupler with intermodal dispersion. <i>Optics Letters</i> , 2017, 42, 1273.	1.7	10
45	A universal form of localized complex potentials with spectral singularities. <i>New Journal of Physics</i> , 2020, 22, 013057.	1.2	10
46	Nonlinear topological edge states in a non-Hermitian array of optical waveguides embedded in an atomic gas. <i>Physical Review A</i> , 2021, 103, .	1.0	10
47	Floquet engineering of excitons in semiconductor quantum dots. <i>Physical Review B</i> , 2022, 105, .	1.1	10
48	Exactly Solvable Wadati Potentials in the \mathcal{PT} -Symmetric Gross-Pitaevskii Equation. <i>Springer Proceedings in Physics</i> , 2016, , 143-155.	0.1	9
49	Spin-Orbit Coupled Polariton Condensates in a Radially Periodic Potential: Multiring Vortices and Rotating Solitons. <i>ACS Photonics</i> , 2018, 5, 3634-3642.	3.2	9
50	Two-dimensional solitons in conservative and parity-time-symmetric triple-core waveguides with cubic-quintic nonlinearity. <i>Physical Review E</i> , 2015, 92, 062909.	0.8	8
51	Modulational instability in a passive fiber cavity, revisited. <i>Optics Letters</i> , 2011, 36, 4623.	1.7	7
52	Solitons in a Hamiltonian \mathcal{PT} -symmetric coupler. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 015206.	0.7	7
53	Localized modes in the Gross-Pitaevskii equation with a parabolic trapping potential and a nonlinear lattice pseudopotential. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 66, 194-207.	1.7	7
54	Sequences of closely spaced resonances and eigenvalues for bipartite complex potentials. <i>Applied Mathematics Letters</i> , 2020, 100, 106049.	1.5	6

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55	Bifurcations of thresholds in essential spectra of elliptic operators under localized non-Hermitian perturbations. <i>Studies in Applied Mathematics</i> , 2021, 146, 834-880.	1.1	6
56	Small-Amplitude Nonlinear Modes under the Combined Effect of the Parabolic Potential, Nonlocality and PT Symmetry. <i>Symmetry</i> , 2016, 8, 72.	1.1	5
57	Symmetry breaking in competing single-well linear-nonlinear potentials. <i>Physical Review E</i> , 2018, 98, .	0.8	5
58	Spacing gain and absorption in a simple \mathcal{PT} -symmetric model: spectral singularities and ladders of eigenvalues and resonances. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 445202.	0.7	5
59	Localised Nonlinear Modes in the PT-Symmetric Double-Delta Well Gross-Pitaevskii Equation. <i>Springer Proceedings in Physics</i> , 2016, , 123-142.	0.1	5
60	Linear and nonlinear coherent perfect absorbers on simple layers. <i>Physical Review A</i> , 2018, 97, .	1.0	4
61	Guided Modes and Symmetry Breaking Supported by Localized Gain. <i>Progress in Optical Science and Photonics</i> , 2012, , 167-200.	0.3	3
62	\mathcal{PT} -Symmetric Waveguides With Tunable Parameters. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 25-34.	1.9	3
63	On nonexistence of continuous families of stationary nonlinear modes for a class of complex potentials. <i>Studies in Applied Mathematics</i> , 2022, 148, 99-124.	1.1	3
64	Universal form of arrays with spectral singularities. <i>Optics Letters</i> , 2020, 45, 3447.	1.7	3
65	Gap solitons for the repulsive Gross-Pitaevskii equation with periodic potential: Coding and method for computation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 1207-1229.	0.5	3
66	Bifurcations of Essential Spectra Generated by a Small Non-Hermitian Hole. I. Meromorphic Continuations. <i>Russian Journal of Mathematical Physics</i> , 2021, 28, 416-433.	0.4	3
67	Localization of ultracold atoms in Zeeman lattices with incommensurate spin-orbit coupling. <i>Physical Review A</i> , 2022, 105, .	1.0	3
68	Dynamic Design of Spatial Patterns of Colloidal Suspensions. <i>Langmuir</i> , 2017, 33, 11698-11702.	1.6	2
69	Global search for localised modes in scalar and vector nonlinear Schrödinger-type equations. <i>Physica D: Nonlinear Phenomena</i> , 2019, 397, 39-53.	1.3	2
70	Polariton gap and gap-stripe solitons in Zeeman lattices. <i>Physical Review B</i> , 2020, 101, .	1.1	2
71	Metastable two-component solitons near an exceptional point. <i>Physical Review A</i> , 2021, 104, .	1.0	2
72	Transverse instability of dark solitons in spin-orbit coupled polariton condensates. <i>Optics Letters</i> , 2018, 43, 4623.	1.7	1

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73	Asymmetric Perfect Absorption and Lasing of Nonlinear Waves by a Complex $\hat{\Gamma}$ -Potential. <i>Symmetry</i> , 2020, 12, 1675.	1.1	1
74	Construction of potentials with multiple spectral singularities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 305202.	0.7	1
75	Spectral singularities of a potential created by two coupled microring resonators. <i>Optics Letters</i> , 2019, 44, 2024.	1.7	1
76	Perfectly absorbed and emitted currents by complex potentials in nonlinear media. <i>Physical Review A</i> , 2021, 104, .	1.0	1
77	Superexponential amplification, power blowup, and solitons sustained by non-Hermitian gauge potentials. <i>Physical Review A</i> , 2021, 104, .	1.0	1
78	Energy flows in \mathcal{PT} -symmetric waveguides. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
79	Nonlinear ring-shaped waves in spinor polariton condensates. <i>Journal of Physics: Conference Series</i> , 2018, 1092, 012174.	0.3	0
80	\mathcal{PT} -symmetric coupler with randomly varying parameters. , 2014, , .		0