

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

51
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81
all docs

81
docs citations

81
times ranked

1247
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Floquet engineering of excitons in semiconductor quantum dots. <i>Physical Review B</i> , 2022, 105, .	1.1	10
3	Localization of ultracold atoms in Zeeman lattices with incommensurate spin-orbit coupling. <i>Physical Review A</i> , 2022, 105, .	1.0	3
4	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
5	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
6	Metastable two-component solitons near an exceptional point. <i>Physical Review A</i> , 2021, 104, .	1.0	2
7	Perfectly absorbed and emitted currents by complex potentials in nonlinear media. <i>Physical Review A</i> , 2021, 104, .	1.0	1
8	Superexponential amplification, power blowup, and solitons sustained by non-Hermitian gauge potentials. <i>Physical Review A</i> , 2021, 104, .	1.0	1
9	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
10	Sequences of closely spaced resonances and eigenvalues for bipartite complex potentials. <i>Applied Mathematics Letters</i> , 2020, 100, 106049.	1.5	6
11	Asymmetric Perfect Absorption and Lasing of Nonlinear Waves by a Complex $\hat{\nu}$ -Potential. <i>Symmetry</i> , 2020, 12, 1675.	1.1	1
12	Construction of potentials with multiple spectral singularities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 305202.	0.7	1
13	Polariton gap and gap-stripe solitons in Zeeman lattices. <i>Physical Review B</i> , 2020, 101, .	1.1	2
14	A universal form of localized complex potentials with spectral singularities. <i>New Journal of Physics</i> , 2020, 22, 013057.	1.2	10
15	Universal form of arrays with spectral singularities. <i>Optics Letters</i> , 2020, 45, 3447.	1.7	3
16	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
17	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
18	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

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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	Spectral singularities of odd- P -symmetric potentials. <i>Physical Review A</i> , 2019, 99, .	1.0	15
21	Rotating patterns in polariton condensates in ring-shaped potentials under a bichromatic pump. <i>Optics Letters</i> , 2019, 44, 4805.	1.7	14
22	Spectral singularities of a potential created by two coupled microring resonators. <i>Optics Letters</i> , 2019, 44, 2024.	1.7	1
23	Chiral solitons in spinor polariton rings. <i>Physical Review B</i> , 2018, 97, .	1.1	11
24	Odd-Time Reversal T -Symmetry Induced by an Anti- P -Symmetric Medium. <i>Physical Review Letters</i> , 2018, 120, 123902.	2.9	61
25	Solitons in a Hamiltonian \mathcal{P} -symmetric coupler. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 015206.	0.7	7
26	Nonlinear ring-shaped waves in spinor polariton condensates. <i>Journal of Physics: Conference Series</i> , 2018, 1092, 012174.	0.3	0
27	Symmetry breaking in competing single-well linear-nonlinear potentials. <i>Physical Review E</i> , 2018, 98, .	0.8	5
28	Transverse instability of dark solitons in spin-orbit coupled polariton condensates. <i>Optics Letters</i> , 2018, 43, 4623.	1.7	1
29	Linear and nonlinear coherent perfect absorbers on simple layers. <i>Physical Review A</i> , 2018, 97, .	1.0	4
30	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
31	Coherent perfect absorption of nonlinear matter waves. <i>Science Advances</i> , 2018, 4, eaat6539.	4.7	56
32	Coherent perfect absorber and laser for nonlinear waves in optical waveguide arrays. <i>Optics Letters</i> , 2018, 43, 5901.	1.7	17
33	Dynamic Design of Spatial Patterns of Colloidal Suspensions. <i>Langmuir</i> , 2017, 33, 11698-11702.	1.6	2
34	Energy flows in P -symmetric waveguides. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
35	Phase transition through the splitting of self-dual spectral singularity in optical potentials. <i>Optics Letters</i> , 2017, 42, 5206.	1.7	27
36	CPT-symmetric coupler with intermodal dispersion. <i>Optics Letters</i> , 2017, 42, 1273.	1.7	10

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37	Gap solitons for the repulsive Gross-Pitaevskii equation with periodic potential: Coding and method for computation. Discrete and Continuous Dynamical Systems - Series B, 2017, 22, 1207-1229.	0.5	3
38	Small-Amplitude Nonlinear Modes under the Combined Effect of the Parabolic Potential, Nonlocality and PT Symmetry. Symmetry, 2016, 8, 72.	1.1	5
39	Jamming anomaly in \mathcal{Q} - \mathcal{T} -symmetric systems. New Journal of Physics, 2016, 18, 075015.	1.2	27
40	Dynamic localization in optical and Zeeman lattices in the presence of spin-orbit coupling. Physical Review A, 2016, 94, .	1.0	12
41	Stationary through-flows in a Bose-Einstein condensate with a \mathcal{PT} -symmetric impurity. Physical Review A, 2016, 94, .	1.0	17
42	\mathcal{PT} -Symmetric Waveguides With Tunable Parameters. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 25-34.	1.9	3
43	Exactly Solvable Wadati Potentials in the PT-Symmetric Gross-Pitaevskii Equation. Springer Proceedings in Physics, 2016, , 143-155.	0.1	9
44	Oscillatory instabilities of gap solitons in a repulsive Bose-Einstein condensate. Physica D: Nonlinear Phenomena, 2016, 337, 58-66.	1.3	10
45	Nonlinear waves in \mathcal{PT} -symmetric systems. Reviews of Modern Physics, 2016, 88, .	16.4	819
46	Bloch Oscillations in Optical and Zeeman Lattices in the Presence of Spin-Orbit Coupling. Physical Review Letters, 2016, 117, 215301.	2.9	50
47	Nonlinear currents in a ring-shaped waveguide with balanced gain and dissipation. Physical Review A, 2016, 94, .	1.0	13
48	Localised Nonlinear Modes in the PT-Symmetric Double-Delta Well Gross-Pitaevskii Equation. Springer Proceedings in Physics, 2016, , 123-142.	0.1	5
49	Two-dimensional solitons in conservative and parity-time-symmetric triple-core waveguides with cubic-quintic nonlinearity. Physical Review E, 2015, 92, 062909.	0.8	8
50	Global Existence of Solutions to Coupled \mathcal{PT} -Symmetric Nonlinear Schrödinger Equations. International Journal of Theoretical Physics, 2015, 54, 3920-3931.	0.5	12
51	Bose-Einstein condensates with localized spin-orbit coupling: Soliton complexes and spinor dynamics. Physical Review A, 2014, 90, .	1.0	52
52	Stochastic parity-time-symmetric coupler. Optics Letters, 2014, 39, 1223.	1.7	20
53	Families of stationary modes in complex potentials. Optics Letters, 2014, 39, 5535.	1.7	61
54	Tunable nonlinear double-core PT-symmetric waveguides. Optics Letters, 2014, 39, 5387.	1.7	24

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55	\mathcal{CPT} -symmetric spin-orbit-coupled condensate. Europhysics Letters, 2014, 107, 50002.	0.7	26
56	Supercritical Blowup in Coupled Parity-Time-Symmetric Nonlinear Schrödinger Equations. Studies in Applied Mathematics, 2014, 133, 422-440.	1.1	11
57	Nonlinear modes in a generalized \mathcal{PT} -symmetric discrete nonlinear Schrödinger equation. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 085204.	0.7	32
58	P T-symmetric coupler with randomly varying parameters. , 2014, , .		0
59	Stationary modes and integrals of motion in nonlinear lattices with a \mathcal{PT} -symmetric linear part. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 415301.	0.7	22
60	Tunable nonlinear parity-time-symmetric defect modes with an atomic cell. Optics Letters, 2013, 38, 4033.	1.7	24
61	Nonlinear modes in binary bosonic condensates with pseudo-spin-orbital coupling. Physical Review A, 2013, 88, .	1.0	50
62	Parity-time-symmetric optical coupler with birefringent arms. Physical Review A, 2013, 87, .	1.0	22
63	\mathcal{PT} -symmetric coupler with 2×2 Physical Review A, 2013, 88, .	1.0	18
64	Discrete solitons in arrays of positive and negative index waveguides. Optics Letters, 2012, 37, 3930.	1.7	21
65	Macroscopic Zeno Effect and Stationary Flows in Nonlinear Waveguides with Localized Dissipation. Physical Review Letters, 2012, 109, 020405.	2.9	48
66	Guided Modes and Symmetry Breaking Supported by Localized Gain. Progress in Optical Science and Photonics, 2012, , 167-200.	0.3	3
67	Nonlinear Modes in Finite-Dimensional \mathcal{PT} -Symmetric Systems. Physical Review Letters, 2012, 108, 213906.	2.9	146
68	Discrete solitons in chem \mathcal{PT} -symmetric lattices. Europhysics Letters, 2012, 100, 56006.	0.7	55
69	Giant amplification of modes in parity-time symmetric waveguides. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2750-2753.	0.9	51
70	Nonlinear modes in the harmonic \mathcal{PT} -symmetric potential. Physical Review A, 2012, 85, .	1.0	109
71	Stability of solitons in \mathcal{PT} -symmetric nonlinear potentials. Europhysics Letters, 2011, 96, 64003.	0.7	73
72	Solitons in a medium with linear dissipation and localized gain. Optics Letters, 2011, 36, 1200.	1.7	48

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73	Modulational instability in a passive fiber cavity, revisited. Optics Letters, 2011, 36, 4623.	1.7	7
74	Solitons in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:mi mathvariant="script"} \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{-symmetric nonlinear lattices. Physical Review A, 2011, 83, .$	1.0	265
75	Nonlinear modes in a complex parabolic potential. Physical Review A, 2010, 81, .	1.0	20
76	Dissipative double-well potential: Nonlinear stationary and pulsating modes. Physical Review E, 2010, 82, 056213.	0.8	13
77	Stability of two-dimensional radial excited states of a Bose-Einstein condensate in an anharmonic trap. Physical Review A, 2009, 79, .	1.0	10
78	Stability of excited states of a Bose-Einstein condensate in an anharmonic trap. Physical Review A, 2008, 78, .	1.0	39
79	Control of nonlinear modes by scattering-length management in Bose-Einstein condensates. Physical Review A, 2007, 76, .	1.0	31
80	Nonlinear modes for the Gross-Pitaevskii equation—a demonstrative computation approach. Nonlinearity, 2007, 20, 2075-2092.	0.6	67