

Yaroslav O Zolotaryuk

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55
papers

1,633
citations

18
h-index

40
g-index

57
ext. papers

1,714
ext. citations

2.7
avg, IF

4.37
L-index

#	Paper	IF	Citations
55	Observation of breathers in Josephson ladders. <i>Physical Review Letters</i> , 2000 , 84, 745-8	7.4	321
54	Directed current due to broken time-space symmetry. <i>Physical Review Letters</i> , 2000 , 84, 2358-61	7.4	306
53	Ratchetlike dynamics of fluxons in annular Josephson junctions driven by biharmonic microwave fields. <i>Physical Review Letters</i> , 2004 , 93, 087001	7.4	110
52	Broken space-time symmetries and mechanisms of rectification of ac fields by nonlinear (non)adiabatic response. <i>Physical Review E</i> , 2002 , 66, 041104	2.4	88
51	Moving lattice kinks and pulses: an inverse method. <i>Physical Review E</i> , 1999 , 59, 6105-15	2.4	74
50	Soliton ratchetlike dynamics by ac forces with harmonic mixing. <i>Physical Review E</i> , 2002 , 65, 056603	2.4	70
49	Broken symmetries and directed collective energy transport in spatially extended systems. <i>Physical Review Letters</i> , 2002 , 88, 184101	7.4	68
48	Rectification of current in ac-driven nonlinear systems and symmetry properties of the Boltzmann equation. <i>Europhysics Letters</i> , 2001 , 54, 141-147	1.6	63
47	Moving breathers in a chain of magnetic pendulums. <i>Physical Review B</i> , 1997 , 55, 6304-6308	3.3	52
46	Moving kinks and nanopterons in the nonlinear Klein-Gordon lattice. <i>Physica D: Nonlinear Phenomena</i> , 2000 , 138, 267-281	3.3	51
45	Breathers in Josephson junction ladders: resonances and electromagnetic wave spectroscopy. <i>Physical Review E</i> , 2001 , 64, 066601	2.4	30
44	Discrete breathers in classical spin lattices. <i>Physical Review B</i> , 2001 , 63,	3.3	28
43	Bound states of lattice solitons and their bifurcations. <i>Physica D: Nonlinear Phenomena</i> , 1997 , 108, 81-91	3.3	27
42	Discrete soliton ratchets driven by biharmonic fields. <i>Physical Review E</i> , 2006 , 73, 066621	2.4	26
41	Polaron dynamics in a two-dimensional anharmonic Holstein model. <i>Physical Review B</i> , 1998 , 58, 14305-14319	3.3	25
40	Vortex and translational currents due to broken time-space symmetries. <i>Physical Review Letters</i> , 2008 , 100, 224102	7.4	23
39	Kinks in dipole chains. <i>Nonlinearity</i> , 2006 , 19, 1365-1382	1.7	21

38	Ratchet due to broken friction symmetry. <i>Physical Review E</i> , 2002 , 65, 011110	2.4	20
37	Solitary plane waves in an isotropic hexagonal lattice. <i>Physical Review B</i> , 1998 , 57, 14213-14227	3.3	17
36	INTRINSIC RESONANT TUNNELING PROPERTIES OF THE ONE-DIMENSIONAL SCHRÖDINGER OPERATOR WITH A DELTA DERIVATIVE POTENTIAL. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1350203	1.1	16
35	Controlling a resonant transmission across the δ -potential: the inverse problem. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011 , 44, 375305	2	16
34	Discrete breathers in classical ferromagnetic lattices with easy-plane anisotropy. <i>Chaos</i> , 2003 , 13, 683-923	3.3	16
33	Discrete kink dynamics in hydrogen-bonded chains: the one-component model. <i>Physical Review E</i> , 2002 , 66, 066603	2.4	16
32	Discrete kink dynamics in hydrogen-bonded chains: the two-component model. <i>Physical Review E</i> , 2004 , 70, 056602	2.4	13
31	Controllable resonant tunnelling through single-point potentials: A point triode. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 511-517	2.3	12
30	A zero-thickness limit of multilayer structures: a resonant-tunnelling δ -potential. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015 , 48, 035302	2	12
29	Nonlinear waves in a model for silicate layers. <i>Chaos</i> , 2018 , 28, 083119	3.3	11
28	Analytical approach to the Davydov-Scott theory with on-site potential. <i>Physical Review B</i> , 2001 , 63,	3.3	10
27	Ratchet device with broken friction symmetry. <i>Applied Physics Letters</i> , 2002 , 80, 2601-2603	3.4	10
26	Point Interactions With Bias Potentials. <i>Frontiers in Physics</i> , 2019 , 7,	3.9	8
25	Resonant enhancement of the jump rate in a double-well potential. <i>Journal of Physics A</i> , 2004 , 37, 6043-6051		7
24	A breather-like localized mode in a Fermi-Pasta-Ulam lattice interacting with an electron. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 4553-4564	1.8	7
23	Pendulum as a model system for driven rotation in molecular nanoscale machines. <i>Physical Review E</i> , 2000 , 61, 3256-3259	2.4	6
22	Fluxon mobility in an array of asymmetric superconducting quantum interference devices. <i>Physical Review E</i> , 2015 , 91, 013202	2.4	5
21	Asymmetric ac fluxon depinning in a Josephson junction array: a highly discrete limit. <i>Physical Review E</i> , 2012 , 86, 026604	2.4	5

20	Directed motion of domain walls in biaxial ferromagnets under the influence of periodic external magnetic fields. <i>European Physical Journal B</i> , 2011 , 79, 257-262	1.2	5
19	Soliton dynamics in a thermalized molecular chain with transversal degree of freedom. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994 , 193, 148-153	2.3	5
18	AC Driven Directed Motion of Solitary Waves. <i>International Journal of Modern Physics B</i> , 2003 , 17, 4428-4433	4.3	4
17	Almost compact moving breathers with fine-tuned discrete time quantum walks. <i>Chaos</i> , 2018 , 28, 123104	3.3	4
16	Radiation emission due to fluxon scattering on an inhomogeneity in a large two-dimensional Josephson junction. <i>Physical Review B</i> , 2014 , 90,	3.3	3
15	Point interactions with bound states: A zero-thickness limit of a double-layer heterostructure. <i>Low Temperature Physics</i> , 2020 , 46, 779-785	0.7	3
14	Scattering of quasi-one-dimensional solitons on impurities in large Josephson junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 3101-3107	2.3	2
13	The lattice soliton in a chain with orientational thermal vibrations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 201, 213-220	2.3	2
12	Fluxon Scattering on a Stripe-Like Impurity in a Two-Dimensional Josephson Junction. <i>Ukrainian Journal of Physics</i> , 2013 , 58, 687-696	0.4	2
11	Discrete Breathers in Condensed Matter 2001 , 315-327		2
10	Fluxon interaction with the finite-size dipole impurity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 1419-1426	2.3	1
9	Moving Embedded Solitons in the Discrete Double Sine-Gordon Equation. <i>Understanding Complex Systems</i> , 2018 , 315-334	0.4	1
8	Discrete breathers in an one-dimensional array of magnetic dots. <i>Low Temperature Physics</i> , 2015 , 41, 733-738	0.7	1
7	Enhanced fluxon transmission through impurities. <i>European Physical Journal B</i> , 2008 , 62, 349-355	1.2	1
6	Moving Topological Solitons in the Discrete Klein-Gordon Equation 2004 , 521-528		1
5	Scattering data and bound states of a squeezed double-layer structure. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021 , 54, 035201	2	1
4	Embedded solitons in the double sine-Gordon lattice with next-neighbor interactions. <i>Physical Review E</i> , 2019 , 100, 032216	2.4	0
3	Stability of Mode-Locked Kinks in the AC Driven and Damped Sine-Gordon Lattice. <i>Advances in Dynamics, Patterns, Cognition</i> , 2014 , 237-250	0.7	

- 2 Embedded soliton dynamics in the asymmetric array of Josephson junctions. *Low Temperature Physics*, **2017**, 43, 658-663 0.7
- 1 Conditions for realizing one-point interactions from a multi-layer structure model. *Journal of Physics A: Mathematical and Theoretical*, **2022**, 55, 085201 2