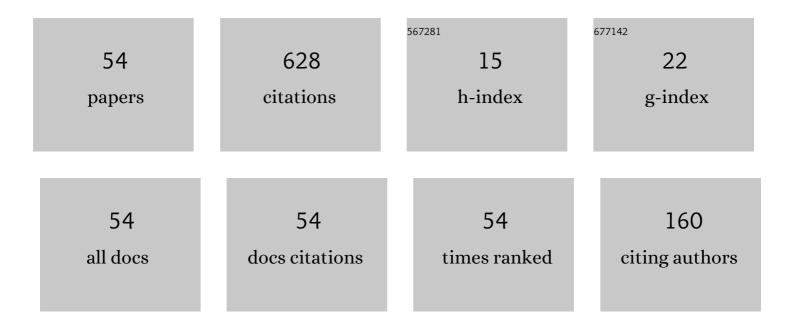
Oleksiy O Vakhnenko

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Nonlinear dynamics of an integrable gauge-coupled exciton-phonon system on a regular one-dimensional lattice. Low Temperature Physics, 2022, 48, 239-245.	0.6	2
2	Nonlinear integrable dynamics of coupled vibrational and intra-site excitations on a regular one-dimensional lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 405, 127431.	2.1	12
3	Prototype and reduced nonlinear integrable lattice systems with the modulated pulson behavior. Wave Motion, 2021, 104, 102745.	2.0	5
4	Coupled Nonlinear Dynamics in the Three-Mode Integrable System on a Regular Chain. Ukrainian Journal of Physics, 2021, 66, 601.	0.2	0
5	Coupling-managed criticality in nonlinear dynamics of an integrable exciton-phonon system on a one-dimensional lattice. Low Temperature Physics, 2021, 47, 1084-1088.	0.6	3
6	Nonlinear system of PT-symmetric excitations and Toda vibrations integrable by the Darboux–BĀæklund dressing method. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, .	2.1	8
7	Nonlinear integrable systems containing the canonical subsystems of distinct physical origins. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126081.	2.1	11
8	Integrable nonlinear triplet lattice system with the combined inter-mode couplings. European Physical Journal Plus, 2020, 135, 1.	2.6	3
9	Four-component integrable systems inspired by the Toda and the Davydov–Kyslukha models. Wave Motion, 2019, 88, 1-12.	2.0	7
10	Six-component semi-discrete integrable nonlinear SchrĶdinger system. Letters in Mathematical Physics, 2018, 108, 1807-1824.	1.1	4
11	Effect of lattice ribbonization via the background-controlled inter-site resonant interactions in nonlinear integrable systems. AIP Conference Proceedings, 2018, , .	0.4	0
12	Integrable nonlinear SchrĶdinger system on a lattice with three structural elements in the unit cell. Journal of Mathematical Physics, 2018, 59, .	1.1	9
13	Nonlinear integrable system of coherently coupled excitations on an intercalated ladder lattice. European Physical Journal Plus, 2018, 133, 1.	2.6	8
14	Semi-discrete integrable nonlinear SchrĶdinger system with background-controlled inter-site resonant coupling. Journal of Nonlinear Mathematical Physics, 2017, 24, 250.	1.3	12
15	Asymmetric canonicalization of the integrable nonlinear SchrĶdinger system on a triangular-lattice ribbon. Applied Mathematics Letters, 2017, 64, 81-86.	2.7	9
16	Distinctive Features Of The Integrable Nonlinear Schrodinger System On A Ribbon Of Triangular Lattice. Ukrainian Journal of Physics, 2017, 62, 271-282.	0.2	6
17	Symmetry-broken canonizations of the semi-discrete integrable nonlinear SchrĶdinger system with background-controlled inter-site coupling. Journal of Mathematical Physics, 2016, 57, .	1.1	8
18	Coupling-governed metamorphoses of the integrable nonlinear Schrödinger system on a triangular-lattice ribbon. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2069-2074.	2.1	9

OLEKSIY O VAKHNENKO

#	Article	IF	CITATIONS
19	Nonlinear integrable model of Frenkel-like excitations on a ribbon of triangular lattice. Journal of Mathematical Physics, 2015, 56, .	1.1	27
20	Integrable Nonlinear SchrĶdinger System on a Triangular-Lattice Ribbon. Journal of the Physical Society of Japan, 2015, 84, 014003.	1.6	21
21	Low-amplitude instability as a premise for the spontaneous symmetry breaking in the new integrable semidiscrete nonlinear system. Chaos, Solitons and Fractals, 2014, 60, 1-10.	5.1	1
22	New Integrable Nonlinear Lattice Systems with Two Adjustable Coupling Parameters. Nonlinear Engineering, 2013, 2, .	2.7	0
23	Four-Wave Semidiscrete Nonlinear Integrable System with <i>??</i> -Symmetry. Journal of Nonlinear Mathematical Physics, 2013, 20, 606.	1.3	7
24	Semidiscrete Integrable Nonlinear Systems Generated by the New Fourth Order Spectral Operator: Systems of Obverse Type. Journal of Nonlinear Mathematical Physics, 2011, 18, 415.	1.3	5
25	Semidiscrete Integrable Nonlinear Systems Generated by the New Fourth-Order Spectral Operator: Local Conservation Laws. Journal of Nonlinear Mathematical Physics, 2011, 18, 401.	1.3	19
26	Bend-imitating models of abruptly bent electron waveguides. Journal of Mathematical Physics, 2011, 52, 073513.	1.1	0
27	Inverse scattering transform for the nonlinear Schrödinger system on a zigzag-runged ladder lattice. Journal of Mathematical Physics, 2010, 51, 103518.	1.1	16
28	Enigma of probability amplitudes in Hamiltonian formulation of integrable semidiscrete nonlinear SchrĶdinger systems. Physical Review E, 2008, 77, 026604.	2.1	10
29	Modeling of stress-strain dependences for Berea sandstone under quasistatic loading. Physical Review B, 2007, 76, .	3.2	11
30	Soft-ratchet modeling of slow dynamics in the nonlinear resonant response of sedimentary rocks. AIP Conference Proceedings, 2006, , .	0.4	7
31	Dynamical realization of end-point memory in consolidated materials. AIP Conference Proceedings, 2006, , .	0.4	0
32	Integrable nonlinear ladder system with background-controlled intersite resonant coupling. Journal of Physics A, 2006, 39, 11013-11027.	1.6	24
33	Soft-ratchet modeling of end-point memory in the nonlinear resonant response of sedimentary rocks. Physical Review B, 2005, 71, .	3.2	42
34	Strain-induced kinetics of intergrain defects as the mechanism of slow dynamics in the nonlinear resonant response of humid sandstone bars. Physical Review E, 2004, 70, 015602.	2.1	37
35	Dynamics of Multicomponent Solitons in Perturbed Ladder Lattices. , 2004, , 503-510.		0
36	Three-component nonlinear dynamical system generated by the new third-order discrete spectral problem. Journal of Physics A, 2003, 36, 5405-5430.	1.6	16

OLEKSIY O VAKHNENKO

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37	Solitons in parametrically driven discrete nonlinear Schrol dinger systems with the exploding range of intersite interactions. Journal of Mathematical Physics, 2002, 43, 2587.	1.1	17
38	Multicomponent nonlinear dynamical systems inspired by the Toda lattice. Journal of Physics A, 2001, 34, 9339-9348.	1.6	5
39	Solitons on a zigzag-runged ladder lattice. Physical Review E, 2001, 64, 067601.	2.1	21
40	Slalom soliton dynamics on a ladder lattice with zig-zag distributed impurities. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 278, 59-67.	2.1	7
41	Transverse and longitudinal dynamics of nonlinear intramolecular excitations on multileg ladder lattices. Physical Review E, 2000, 61, 7110-7120.	2.1	19
42	Multimode soliton dynamics in perturbed ladder lattices. Physical Review E, 2000, 63, 016612.	2.1	13
43	Nonlinear beating excitations on ladder lattice. Journal of Physics A, 1999, 32, 5735-5748.	1.6	21
44	Nonlinear model of intramolecular excitations on a multileg ladder lattice. Physical Review E, 1999, 60, R2492-R2495.	2.1	9
45	Planar quantum wire-like nanostructures in a perpendicular magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 249, 349-354.	2.1	3
46	Bend-imitating approach to quantum wire-like nanostructures. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 231, 419-423.	2.1	5
47	Localized states in an arbitrarily bent quantum wire (bend-imitating approach). Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 211, 46-52.	2.1	6
48	Physically corrected Ablowitz-Ladik model and its application to the Peierls-Nabarro problem. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 196, 307-312.	2.1	45
49	Spectral and transport characteristics of an arbitrarily bent planar quantum electron guide. Physical Review B, 1995, 52, 17386-17392.	3.2	10
50	Intrinsic vibrations of the planar orientation-translational stripe-structures. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 186, 213-216.	2.1	2
51	Physically corrected Ablowitz-Ladik model and its application to the Peierls-Nabarro problem. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 196, 307-312.	2.1	1
52	Electron scattering in an arbitrarily bent planar quantum channel. Journal of Physics Condensed Matter, 1994, 6, 3229-3236.	1.8	9
53	Soliton Generation in Semiâ€Infinite Molecular Chains. Physica Status Solidi (B): Basic Research, 1988, 146, 605-612.	1.5	20
54	On the motion of solitons in discrete molecular chains. Theoretical and Mathematical Physics(Russian Federation), 1986, 68, 873-880.	0.9	56