L S Brizhik

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80 817 16 25 g-index

86 889 2.3 3.82 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
80	Static solutions of aD-dimensional modified nonlinear Schrdinger equation. <i>Nonlinearity</i> , 2003 , 16, 148	31 1 1 /1 97	' 6 ₃
79	Solitons in alpha-helical proteins. <i>Physical Review E</i> , 2004 , 70, 031914	2.4	54
78	Delayed luminescence of biological systems arising from correlated many-soliton states. <i>Physical Review E</i> , 2001 , 64, 031902	2.4	47
77	Electron self-trapping in a discrete two-dimensional lattice. <i>Physica D: Nonlinear Phenomena</i> , 2001 , 159, 71-90	3.3	45
76	Soliton dynamics and Peierls-Nabarro barrier in a discrete molecular chain. <i>Physical Review B</i> , 2000 , 61, 1129-1141	3.3	43
75	Soliton excitations in one-dimensional molecular systems. <i>Physica Status Solidi (B): Basic Research</i> , 1983 , 115, 615-630	1.3	43
74	Charge and energy transfer by solitons in low-dimensional nanosystems with helical structure. <i>Chemical Physics</i> , 2006 , 324, 259-266	2.3	28
73	The role of electromagnetic potentials in the evolutionary dynamics of ecosystems. <i>Ecological Modelling</i> , 2009 , 220, 1865-1869	3	24
72	Electron autolocalized states in molecular chains. <i>Physica D: Nonlinear Phenomena</i> , 1995 , 81, 295-304	3.3	24
71	Electron pairing and Coulomb repulsion in one-dimensional anharmonic lattices. <i>Physical Review B</i> , 2012 , 85,	3.3	23
7º	Michael Kasha: from photochemistry and flowers to spectroscopy and music. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14316-24	16.4	21
69	Nonlinear Model of the Origin of Endogenous Alternating Electromagnetic Fields and Selfregulation of Metabolic Processes in Biosystems. <i>Electromagnetic Biology and Medicine</i> , 2003 , 22, 31-39	2.2	20
68	The soliton mechanism of the delayed luminescence of biological systems. <i>Europhysics Letters</i> , 2000 , 52, 238-244	1.6	19
67	On the dynamics of self-organization in living organisms. <i>Electromagnetic Biology and Medicine</i> , 2009 , 28, 28-40	2.2	17
66	Influence of electromagnetic radiation on molecular solitons. <i>Journal of Biological Physics</i> , 1998 , 24, 19	-406	17
65	Electromagnetic radiation influence on nonlinear charge and energy transport in biosystems. <i>Journal of Biological Physics</i> , 1999 , 24, 223-32	1.6	17
64	Influence of electromagnetic field on soliton-mediated charge transport in biological systems. <i>Electromagnetic Biology and Medicine</i> , 2015 , 34, 123-32	2.2	16

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63	The ground state of an electron or exciton in the Holstein model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 200, 213-218	2.3	16	
62	Soliton Mechanism of Superconductivity in Organic Quasi-One-Dimensional Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1987 , 143, 689-698	1.3	16	
61	The ground state of an extra electron interacting with acoustic phonons in a molecular chain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 205, 90-96	2.3	15	
60	Nonlinear dependence of the delayed luminescence yield on the intensity of irradiation in the framework of a correlated soliton model. <i>Physical Review E</i> , 2003 , 67, 021902	2.4	14	
59	Soliton Generation in Semi-Infinite Molecular Chains. <i>Physica Status Solidi (B): Basic Research</i> , 1988 , 146, 605-612	1.3	14	
58	Electron pairing in one-dimensional anharmonic crystal lattices. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 551-565	2.1	13	
57	Delayed luminescence from collagen as arising from soliton and small polaron states. <i>International Journal of Quantum Chemistry</i> , 2010 , 110, 221-229	2.1	11	
56	Soliton generation in molecular chains. <i>Physical Review B</i> , 1993 , 48, 3142-3144	3.3	10	
55	Quartic lattice interactions, soliton-like excitations, and electron pairing in one-dimensional anharmonic crystals. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 2591-2598	2.1	9	
54	Ratchet behaviour of polarons in molecular chains. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 2552	2 42 .8	9	
53	Spontaneous localization of electrons in lattices with nonlocal interactions. <i>Physical Review B</i> , 2003 , 68,	3.3	9	
52	Ratchet dynamics of large polarons in asymmetric diatomic molecular chains. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 155105	1.8	8	
51	Dynamics of a self-trapped quasiparticle in a one-dimensional molecular lattice with two phonon modes. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 545-557	1.3	7	
50	Self-trapped electron states in nanotubes. <i>Physica D: Nonlinear Phenomena</i> , 2007 , 228, 130-139	3.3	7	
49	Spontaneously localized electron states in a discrete anisotropic two-dimensional lattice. <i>Physica D: Nonlinear Phenomena</i> , 2000 , 146, 275-288	3.3	7	
48	Ground state diagram of a 1D electronphonon system. <i>Synthetic Metals</i> , 2000 , 109, 117-121	3.6	7	
47	Donor-acceptor electron transport mediated by solitons. <i>Physical Review E</i> , 2014 , 90, 052915	2.4	6	
46	Ratchet effect of Davydova solitons in nonlinear low-dimensional nanosystems. <i>International Journal of Quantum Chemistry</i> , 2010 , 110, 25-37	2.1	6	

45	Role of Bisolitons and their Correlations in Charge Transfer Processes. <i>Journal of Biological Physics</i> , 1999 , 24, 233-44	1.6	6
44	General solution of the Dirac equation for quasi-two-dimensional electrons. <i>Annals of Physics</i> , 2016 , 369, 85-101	2.5	6
43	Spin eigen-states of Dirac equation for quasi-two-dimensional electrons. <i>Annals of Physics</i> , 2015 , 361, 423-439	2.5	5
42	Polaron dynamics and PeierlsNabarro barrier in a discrete molecular chain. <i>Synthetic Metals</i> , 2000 , 109, 113-116	3.6	5
41	Spontaneously Localized Electron States in a Chain with Electron Phonon Coupling: Variational Approach. <i>Journal of Superconductivity and Novel Magnetism</i> , 1999 , 12, 239-241		5
40	Bisoliton mechanism of electron transport in biological systems. <i>Journal of Biological Physics</i> , 1993 , 19, 123-131	1.6	5
39	Long-range donor-acceptor electron transport mediated by Ehelices. <i>Physical Review E</i> , 2019 , 100, 0622	0 5 .4	5
38	Charge and energy transport by Holstein solitons in anharmonic one-dimensional systems. <i>Chaos, Solitons and Fractals,</i> 2019 , 119, 343-354	9.3	4
37	Thermal enhancement and stochastic resonance of polaron ratchets. <i>Physical Review E</i> , 2014 , 89, 06290) 5 2.4	4
36	Nonlinearity, coherence and complexity: Biophysical aspects related to health and disease. <i>Electromagnetic Biology and Medicine</i> , 2017 , 36, 315-324	2.2	4
35	Light as a trigger and a probe of the internal dynamics of living organisms. <i>JAMS Journal of Acupuncture and Meridian Studies</i> , 2010 , 3, 291-7	1.2	4
34	Electron self-trapping on a nanocircle. <i>Physica D: Nonlinear Phenomena</i> , 2006 , 218, 36-55	3.3	4
33	Spontaneous localization of electrons in two-dimensional lattices within the adiabatic approximation. <i>Journal of Mathematical Physics</i> , 2003 , 44, 3689	1.2	4
32	The Magnetic Field Influence on a Superconducting Bisoliton Condensate. <i>Physica Status Solidi (B):</i> Basic Research, 1990 , 157, 417-424	1.3	4
31	Modeling Meridians Within the Quantum Field Theory. <i>JAMS Journal of Acupuncture and Meridian Studies</i> , 2019 , 12, 29-36	1.2	3
30	Impact of structure on the delayed luminescence of d-Glucose-based polymer chains. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 198, 111589	6.7	3
29	The role of water in the information exchange between the components of an ecosystem. <i>Ecological Modelling</i> , 2011 , 222, 2869-2877	3	3
28	Effects of periodic electromagnetic field on charge transport in macromolecules. <i>Electromagnetic Biology and Medicine</i> , 2009 , 28, 15-27	2.2	3

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27	Davydova solitons in zigzag carbon nanotubes. <i>International Journal of Quantum Chemistry</i> , 2010 , 110, 11-24	2.1	3
26	Adiabatic self-trapped states in zigzag nanotubes. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 3062	05 1.8	3
25	Bound State of Electrons in a One-Dimensional Chain. <i>Physica Status Solidi (B): Basic Research</i> , 1994 , 182, 89-96	1.3	3
24	Soliton states in a chain with two atoms per elementary cell. <i>Physica Status Solidi (B): Basic Research</i> , 1991 , 164, 525-536	1.3	3
23	Nonlinear mechanism for weak photon emission from biosystems. <i>Indian Journal of Experimental Biology</i> , 2008 , 46, 353-7		3
22	A cross-correlated experimental setup for probing normal and abnormal vital processes that are endogenous or induced by xenobiotic agents 2003 , 5143, 250		2
21	On the dependence of the critical temperature on pressure in the bisoliton model of high temperature superconductors. <i>High Pressure Research</i> , 1994 , 11, 375-383	1.6	2
20	Dynamics of a soliton in a constant magnetic field. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 1990 , 83, 578-582	0.7	2
19	Bisoliton in Constant Magnetic Field. <i>Physica Status Solidi (B): Basic Research</i> , 1990 , 157, 649-655	1.3	2
18	On the theory of the Schrdinger equation with the full set of relativistic corrections. <i>Low Temperature Physics</i> , 2018 , 44, 573-583	0.7	2
17	Electron Correlations in Molecular Chains 2017 , 215-232		1
16	Copper ion fluxes through the floating water bridge under strong electric potential. <i>Electromagnetic Biology and Medicine</i> , 2015 , 34, 167-9	2.2	1
15	Bound States of Electrons in Harmonic and Anharmonic Crystal Lattices. <i>Springer Series in Materials Science</i> , 2015 , 291-319	0.9	1
14	Bisolitons in a layered crystal. <i>Chaos, Solitons and Fractals</i> , 1993 , 3, 61-65	9.3	1
13	Quantum theory of strong localization of a quasiparticle in a linear molecular system. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 1988 , 77, 1129-1136	0.7	1
12	Spin relevant invariants and the general solution of the Dirac equation for the Coulomb fields. <i>Annals of Physics</i> , 2022 , 439, 168786	2.5	1
11	Stabilizing Role of Lattice Anharmonicity in the Bisoliton Dynamics. <i>Ukrainian Journal of Physics</i> , 2013 , 58, 562-572	0.4	1
10	Hydration Effects on Photophysical Properties of Collagen. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2009 , 359-383	0.1	1

9	Generalized Spin-Orbit Interaction and Its Manifestation in Two-Dimensional Electron Systems. <i>Ukrainian Journal of Physics</i> , 2019 , 64, 464	0.4	0
8	Directed Transport of the Davydov Solitons by Unbiased a.c. Forces. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2009 , 89-102	0.1	
7	Field Driven Current in Nonlinear Low-Dimensional Nanosystems. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009 , 165-184	0.2	
6	Correlation between large polarons in molecular chains. <i>Macromolecular Symposia</i> , 2004 , 212, 529-538	0.8	
5	Correlation between large polarons in molecular chains. <i>Macromolecular Symposia</i> , 2004 , 212, 131-140	0.8	
4	Energy Supply and Photon Emission by Solitons in Alpha-Helical Proteins. <i>Electromagnetic Biology and Medicine</i> , 2005 , 24, 243-253	2.2	
3	High-Temperature Superconductivity in Light of Bisoliton Model 1990 , 109-118		
2	On the Pair Correlations Between Electrosolitons 1998 , 173-184		
1	Some Properties of Solitons. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2009 , 103-121	0.1	