

Sergiej B Leble

List of Publications by Year in descending order

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50
papers

423
citations

759233

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53
all docs

53
docs citations

53
times ranked

180
citing authors

#	ARTICLE	IF	CITATIONS
1	On convergence and stability of a numerical scheme of Coupled Nonlinear Schrödinger Equations. Computers and Mathematics With Applications, 2008, 55, 745-759.	2.7	39
2	Darboux-integrable nonlinear Liouville-von Neumann equation. Physical Review E, 1998, 58, 7091-7100.	2.1	32
3	Elementary and binary Darboux transformations at rings. Computers and Mathematics With Applications, 1998, 35, 73-81.	2.7	29
4	Korteweg-de Vries-modified Korteweg-de Vries systems and Darboux transforms in 1+1 and 2+1 dimensions. Journal of Mathematical Physics, 1993, 34, 1421-1428.	1.1	28
5	Analytical and numerical solution of a coupled KdV-MKdV system. Chaos, Solitons and Fractals, 2004, 19, 99-108.	5.1	28
6	Numerical integration of a coupled Korteweg-de Vries system. Computers and Mathematics With Applications, 2003, 45, 581-591.	2.7	26
7	Darboux integration of. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 279, 333-340.	2.1	20
8	Control of magneto-static and -dynamic properties by stress tuning in Fe-Si-B amorphous microwires with fixed dimensions. Journal of Magnetism and Magnetic Materials, 2019, 477, 415-419.	2.3	19
9	Structure of head-to-head domain wall in cylindrical amorphous ferromagnetic microwire and a method of anisotropy coefficient estimation. Journal of Magnetism and Magnetic Materials, 2020, 504, 166646.	2.3	16
10	Problem of proper decomposition and initialization of acoustic and entropy modes in a gas affected by the mass force. Applied Mathematical Modelling, 2013, 37, 629-635.	4.2	15
11	Nonlinear von Neumann-type equations: Darboux invariance and spectra. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 255, 42-48.	2.1	13
12	Mode interaction in few-mode optical fibres with Kerr effect. Journal of Modern Optics, 2008, 55, 1-11.	1.3	13
13	Division of differential operators, intertwine relations and darboux transformations. Reports on Mathematical Physics, 2000, 46, 165-174.	0.8	12
14	Intertwine operators and elementary darboux transforms in differential rings and modules. Reports on Mathematical Physics, 1997, 39, 177-184.	0.8	10
15	Binary Bell polynomials and Darboux covariant Lax pairs. Glasgow Mathematical Journal, 2001, 43, 53-63.	0.3	10
16	Piecewise continuous distribution function method in the theory of wave disturbances of inhomogeneous gas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 348, 326-334.	2.1	10
17	Zero-range potentials in multi-channel diatomic molecule scattering. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 306, 35-44.	2.1	9
18	Waveguide Propagation of Nonlinear Waves. Springer Series on Atomic, Optical, and Plasma Physics, 2019, , .	0.2	9

#	ARTICLE	IF	CITATIONS
19	On soliton and periodic solutions of Maxwellâ€“Bloch system for two-level medium with degeneracy. Chaos, Solitons and Fractals, 2000, 11, 1763-1772.	5.1	7
20	Reduction restrictions of Darboux and Laplace transformations for the Goursat equation. Journal of Mathematical Physics, 2002, 43, 1095-1105.	1.1	7
21	Study of free convective heat transfer from horizontal conic. International Journal of Heat and Mass Transfer, 2003, 46, 4925-4934.	4.8	7
22	Theory of thermospheric waves and their ionospheric effects. Pure and Applied Geophysics, 1988, 127, 491-527.	1.9	6
23	A dressing of zero-range potentials and electronâ€“molecule scattering problem at low energies. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 339, 83-88.	2.1	6
24	Directed Electromagnetic Pulse Dynamics: Projecting Operators Method. Journal of the Physical Society of Japan, 2011, 80, 024002.	1.6	5
25	Directed electromagnetic wave propagation in 1D metamaterial: Projecting operators method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2271-2278.	2.1	5
26	A Wave Diagnostics in Geophysics: Algorithmic Extraction of Atmosphere Disturbance Modes. Pure and Applied Geophysics, 2018, 175, 3023-3035.	1.9	5
27	Algorithm for the Diagnostics of Waves and Entropy Mode in the Exponentially Stratified Atmosphere. Russian Journal of Physical Chemistry B, 2020, 14, 371-376.	1.3	5
28	A theoretical consideration of a free convective boundary layer on an isothermal horizontal conic. Applied Mathematical Modelling, 2004, 28, 305-321.	4.2	4
29	Green function diagonal for a class of heat equations. Applied Mathematics and Computation, 2013, 219, 6084-6092.	2.2	4
30	Tsunami-Launched Acoustic Wave in the Layered Atmosphere: Explicit Formulas Including Electron Density Disturbances. Atmosphere, 2019, 10, 629.	2.3	4
31	Nonlinear dispersion of long internal waves. Fluid Dynamics, 1988, 23, 448-452.	0.9	3
32	Modeling of the Thermospheric Effect of a Tsunami Wave in a Multilayered Atmosphere. Russian Journal of Physical Chemistry B, 2020, 14, 367-370.	1.3	3
33	Dynamics of Domain Walls in a Cylindrical Amorphous Ferromagnetic Microwire with Magnetic Inhomogeneities. Theoretical and Mathematical Physics(Russian Federation), 2020, 202, 252-264.	0.9	3
34	The equations for interactions of polarization modes in optical fibres including the Kerr effect. Journal of Modern Optics, 2008, 55, 3653-3666.	1.3	2
35	Quantum corrections to SG equation solutions and applications. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 991-995.	2.1	2
36	Theoretical consideration of free convective heat transfer from a round isothermal plate slightly inclined from the vertical. International Journal of Heat and Mass Transfer, 2017, 109, 835-843.	4.8	2

#	ARTICLE	IF	CITATIONS
37	On the Diagnosis of Unidirectional Acoustic Waves as Applied to the Measurement of Atmospheric Parameters by the API Method in the SURA Experiment. <i>Atmosphere</i> , 2020, 11, 924.	2.3	2
38	Study of free convective boundary layer of isothermal lateral surface of axisymmetrical horizontal body. <i>Applied Mathematical Modelling</i> , 2009, 33, 3421-3429.	4.2	1
39	Diagnostics of Atmospheric Disturbances Using the Method of Projection Operators. <i>Russian Journal of Physical Chemistry B</i> , 2018, 12, 554-561.	1.3	1
40	Quantum corrections to $\mathfrak{sl}(2)$ model solutions and applications to Heisenberg chain dynamics. <i>Open Physics</i> , 2013, 11, .	1.7	0
41	Integrable Potentials by Darboux Transformations in Rings and Quantum and Classical Problems. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2018, 197, 1487-1500.	0.9	0
42	Solitons. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2019, , 93-117.	0.2	0
43	Guide Propagation and Interaction of Plasma Waves. <i>Metamaterials. Springer Series on Atomic, Optical, and Plasma Physics</i> , 2019, , 173-205.	0.2	0
44	A domain wall creation paradigm: Realization for amorphous Fe-based microwires. <i>AIP Advances</i> , 2021, 11, 025240.	1.3	0
45	Study of a Gas Disturbance Mode Content Based on the Measurement of Atmospheric Parameters at the Heights of the Mesosphere and Lower Thermosphere. <i>Atmosphere</i> , 2021, 12, 1123.	2.3	0
46	Diagnostic Relations between Pressure and Entropy Perturbations for Acoustic and Entropy Modes. <i>Atmosphere</i> , 2021, 12, 1164.	2.3	0
47	Electromagnetic Waveguides. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2019, , 37-74.	0.2	0
48	Waveguide Mode Interactions. <i>Coupled Nonlinear Schrödinger Equations. Springer Series on Atomic, Optical, and Plasma Physics</i> , 2019, , 75-91.	0.2	0
49	Evolution Operator and Projectors to Its Eigenspaces. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2019, , 13-35.	0.2	0
50	Evolution equation for interaction of opposite directed waves with arbitrary polarization in 1D-metamaterial. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2022, 31, .	1.8	0