

Sergiej B Leble

List of Publications by Year in descending order

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50
papers

423
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759233

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all docs

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docs citations

53
times ranked

180
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution equation for interaction of opposite directed waves with arbitrary polarization in 1D-metamaterial. Journal of Nonlinear Optical Physics and Materials, 2022, 31, .	1.8	0
2	A domain wall creation paradigm: Realization for amorphous Fe-based microwires. AIP Advances, 2021, 11, 025240.	1.3	0
3	Study of a Gas Disturbance Mode Content Based on the Measurement of Atmospheric Parameters at the Heights of the Mesosphere and Lower Thermosphere. Atmosphere, 2021, 12, 1123.	2.3	0
4	Diagnostic Relations between Pressure and Entropy Perturbations for Acoustic and Entropy Modes. Atmosphere, 2021, 12, 1164.	2.3	0
5	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
6	On the Diagnosis of Unidirectional Acoustic Waves as Applied to the Measurement of Atmospheric Parameters by the API Method in the SURA Experiment. Atmosphere, 2020, 11, 924.	2.3	2
7	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
8	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
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	Waveguide Propagation of Nonlinear Waves. Springer Series on Atomic, Optical, and Plasma Physics, 2019, , .	0.2	9
11	Solitons. Springer Series on Atomic, Optical, and Plasma Physics, 2019, , 93-117.	0.2	0
12	Guide Propagation and Interaction of Plasma Waves. Metamaterials. Springer Series on Atomic, Optical, and Plasma Physics, 2019, , 173-205.	0.2	0
13	Tsunami-Launched Acoustic Wave in the Layered Atmosphere: Explicit Formulas Including Electron Density Disturbances. Atmosphere, 2019, 10, 629.	2.3	4
14	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
15	Electromagnetic Waveguides. Springer Series on Atomic, Optical, and Plasma Physics, 2019, , 37-74.	0.2	0
16	Waveguide Mode Interactions. Coupled Nonlinear Schrödinger Equations. Springer Series on Atomic, Optical, and Plasma Physics, 2019, , 75-91.	0.2	0
17	Evolution Operator and Projectors to Its Eigenspaces. Springer Series on Atomic, Optical, and Plasma Physics, 2019, , 13-35.	0.2	0
18	A Wave Diagnostics in Geophysics: Algorithmic Extraction of Atmosphere Disturbance Modes. Pure and Applied Geophysics, 2018, 175, 3023-3035.	1.9	5

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19	Integrable Potentials by Darboux Transformations in Rings and Quantum and Classical Problems. Theoretical and Mathematical Physics(Russian Federation), 2018, 197, 1487-1500.	0.9	0
20	Diagnostics of Atmospheric Disturbances Using the Method of Projection Operators. Russian Journal of Physical Chemistry B, 2018, 12, 554-561.	1.3	1
21	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
22	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
23	Quantum corrections to \tilde{H}_4 model solutions and applications to Heisenberg chain dynamics. Open Physics, 2013, 11, .	1.7	0
24	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
25	Green function diagonal for a class of heat equations. Applied Mathematics and Computation, 2013, 219, 6084-6092.	2.2	4
26	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
27	Directed Electromagnetic Pulse Dynamics: Projecting Operators Method. Journal of the Physical Society of Japan, 2011, 80, 024002.	1.6	5
28	Study of free convective boundary layer of isothermal lateral surface of axisymmetrical horizontal body. Applied Mathematical Modelling, 2009, 33, 3421-3429.	4.2	1
29	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
30	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
31	Mode interaction in few-mode optical fibres with Kerr effect. Journal of Modern Optics, 2008, 55, 1-11.	1.3	13
32	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
33	A dressing of zero-range potentials and electron-molecule scattering problem at low energies. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 339, 83-88.	2.1	6
34	Analytical and numerical solution of a coupled KdV-MKdV system. Chaos, Solitons and Fractals, 2004, 19, 99-108.	5.1	28
35	A theoretical consideration of a free convective boundary layer on an isothermal horizontal conic. Applied Mathematical Modelling, 2004, 28, 305-321.	4.2	4
36	Study of free convective heat transfer from horizontal conic. International Journal of Heat and Mass Transfer, 2003, 46, 4925-4934.	4.8	7

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37	Numerical integration of a coupled Korteweg-de Vries system. Computers and Mathematics With Applications, 2003, 45, 581-591.	2.7	26
38	Reduction restrictions of Darboux and Laplace transformations for the Goursat equation. Journal of Mathematical Physics, 2002, 43, 1095-1105.	1.1	7
39	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
40	Binary Bell polynomials and Darboux covariant Lax pairs. Glasgow Mathematical Journal, 2001, 43, 53-63.	0.3	10
41	Darboux integration of. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 279, 333-340.	2.1	20
42	On soliton and periodic solutions of Maxwell-Bloch system for two-level medium with degeneracy. Chaos, Solitons and Fractals, 2000, 11, 1763-1772.	5.1	7
43	Division of differential operators, intertwine relations and darboux transformations. Reports on Mathematical Physics, 2000, 46, 165-174.	0.8	12
44	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
45	Elementary and binary Darboux transformations at rings. Computers and Mathematics With Applications, 1998, 35, 73-81.	2.7	29
46	Darboux-integrable nonlinear Liouville-von Neumann equation. Physical Review E, 1998, 58, 7091-7100.	2.1	32
47	Intertwine operators and elementary darboux transforms in differential rings and modules. Reports on Mathematical Physics, 1997, 39, 177-184.	0.8	10
48	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
49	Nonlinear dispersion of long internal waves. Fluid Dynamics, 1988, 23, 448-452.	0.9	3
50	Theory of thermospheric waves and their ionospheric effects. Pure and Applied Geophysics, 1988, 127, 491-527.	1.9	6