

Aleksandr Levchenko

List of Publications by Year in descending order

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108
papers

977
citations

516710

16
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526287

27
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108
all docs

108
docs citations

108
times ranked

373
citing authors

#	ARTICLE	IF	CITATIONS
1	The interaction between injected charges and a vortex flow in normal and superfluid helium near T_c . Low Temperature Physics, 2021, 47, 378-382.	0.6	2
2	The formation of Pareto distribution in tracer systems on the water surface. Results in Physics, 2021, 27, 104446.	4.1	2
3	Pareto distribution in the system of polyamide particle clusters on the water surface. Results in Physics, 2021, 29, 104677.	4.1	0
4	Procedure for determining the dye solution concentration distribution in laminar water flow in glass channel. Journal of Physics: Conference Series, 2020, 1560, 012044.	0.4	0
5	Formation and Decay of Vortex Motion on a Liquid Surface (Scientific Summary). JETP Letters, 2020, 111, 549-561.	1.4	4
6	Penetration of a Vortex Lattice into the Bulk of a Liquid. Journal of Surface Investigation, 2020, 14, 751-755.	0.5	3
7	The evolution of vortices on the surface of normal He I. Low Temperature Physics, 2020, 46, 133-138.	0.6	3
8	Influence of Hydrogen Absorption on the Emission Properties of Carbon Nanotubes. Journal of Surface Investigation, 2020, 14, 555-557.	0.5	0
9	Capacitance-voltage characteristics of metal-insulator-semiconductor structures (Review article). Low Temperature Physics, 2019, 45, 823-840.	0.6	4
10	Decay of a vortex lattice formed by gravity waves on the water surface. Results in Physics, 2019, 13, 102229.	4.1	3
11	Quasi-adiabatic decay of vortex motion on the water surface. Materials Letters, 2019, 254, 444-447.	2.6	7
12	Observation of a local maximum in the stationary turbulent spectrum of capillary waves on the surface of liquid hydrogen. Low Temperature Physics, 2019, 45, 363-366.	0.6	0
13	Self-organization of neutral particles on the surface of superfluid He II. Low Temperature Physics, 2019, 45, 469-475.	0.6	10
14	Waves on the He-II Surface, Excited by a Heat Flux in the Bulk. Journal of Experimental and Theoretical Physics, 2019, 129, 591-606.	0.9	1
15	Vortices on the Surface of Normal He I Generated by the Rayleigh-Bénard Thermogravitational Convection in the Bulk of a Liquid. JETP Letters, 2019, 110, 551-556.	1.4	5
16	Kelvin-Helmholtz instability forced by the intensive Faraday waves on the free surface of superfluid He-II. Materials Letters, 2019, 238, 226-228.	2.6	3
17	Formation and decay of eddy currents generated by crossed surface waves. Physical Review Fluids, 2019, 4, .	2.5	12
18	Generation of Vortices by Nonlinear Waves on the Surface of a Viscous Liquid. Physics of Wave Phenomena, 2019, 27, 327-332.	1.1	2

#	ARTICLE	IF	CITATIONS
19	Large-Scale Coherent Vortex Formation in Two-Dimensional Turbulence. JETP Letters, 2018, 107, 157-162.	1.4	14
20	Formation of Vortex Motion by Capillary Waves on the Surface of Water. Journal of Surface Investigation, 2018, 12, 1117-1123.	0.5	0
21	Experimental Simulation of the Generation of a Vortex Flow on a Water Surface by a Wave Cascade. JETP Letters, 2018, 108, 519-526.	1.4	6
22	Modulation Instability of a Gravity Wave and Generation of a Direct Cascade of Vortex Energy on the Surface of Water. Journal of Surface Investigation, 2018, 12, 1298-1303.	0.5	1
23	Macroscopic vortices on the surface of superfluid He II. Low Temperature Physics, 2018, 44, 1005-1019.	0.6	7
24	A Technique for Registering Wave and Vortex Motions on a Liquid Surface. Instruments and Experimental Techniques, 2018, 61, 757-760.	0.5	13
25	Energy transfer to the low-frequency region of the turbulence spectrum of gravity waves on superfluid He II surfaces owing to four-wave processes. Low Temperature Physics, 2018, 44, 126-129.	0.6	1
26	Terrestrial development of the experiments on the fullerite C60 crystal growth in microgravity. Nanosystems: Physics, Chemistry, Mathematics, 2018, , 38-40.	0.4	0
27	Influence of Helium Atoms Absorption on the Emission Properties of Carbon Nanotubes. Journal of Low Temperature Physics, 2017, 187, 166-171.	1.4	1
28	Viscous magnetoresistance of correlated electron liquids. Physical Review B, 2017, 95, .	3.2	34
29	Decay instability of gravity-capillary waves on liquid hydrogen surfaces. Low Temperature Physics, 2017, 43, 325-328.	0.6	5
30	Formation of an energy cascade in a system of vortices on the surface of water. JETP Letters, 2017, 106, 330-335.	1.4	10
31	How the Vortex Motion of Gravity Waves on the Surface of Water is Formed. Journal of Surface Investigation, 2017, 11, 1225-1231.	0.5	5
32	Faraday waves and vortices on the surface of superfluid He II. JETP Letters, 2017, 106, 252-257.	1.4	19
33	Generation of vortices by gravity waves on a water surface. JETP Letters, 2016, 104, 702-708.	1.4	26
34	Turbulence in the system of capillary waves on the surface of water. Journal of Surface Investigation, 2016, 10, 1060-1066.	0.5	0
35	Observation of dynamic maximum in a turbulent cascade on the surface of liquid hydrogen. Low Temperature Physics, 2016, 42, 1067-1070.	0.6	1
36	Instability on the Free Surface of Superfluid He-II Induced by a Steady Heat Flow in Bulk. Journal of Low Temperature Physics, 2016, 185, 324-338.	1.4	8

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37	Nonlinear Generation of Vorticity by Surface Waves. <i>Physical Review Letters</i> , 2016, 116, 054501.	7.8	49
38	Generation of a vortex flow by waves on the surface of a liquid. <i>JETP Letters</i> , 2015, 102, 432-436.	1.4	21
39	Shielding characteristics of water. <i>Low Temperature Physics</i> , 2015, 41, 461-464.	0.6	3
40	Nanotube-based source of charges for experiments with solid helium at low temperatures. <i>Low Temperature Physics</i> , 2015, 41, 567-570.	0.6	2
41	Formation of low-frequency harmonics on the surface of liquid hydrogen and helium in a turbulent regime. <i>Low Temperature Physics</i> , 2015, 41, 163-168.	0.6	4
42	Wave turbulence on the surface of liquid hydrogen in restricted geometry: The influence of the boundary conditions. <i>Low Temperature Physics</i> , 2015, 41, 484-487.	0.6	1
43	Bidirectional energy cascade in surface capillary waves. <i>Physical Review E</i> , 2015, 91, 023021.	2.1	12
44	Low-frequency subharmonics in the turbulent spectrum on the surface of liquid hydrogen. <i>JETP Letters</i> , 2015, 100, 669-674.	1.4	5
45	A field-emission source of charges based on nanotubes for low-temperature experiments. <i>Instruments and Experimental Techniques</i> , 2014, 57, 755-759.	0.5	4
46	A method for spatial recording of waves on the surface of a transparent liquid. <i>Instruments and Experimental Techniques</i> , 2013, 56, 731-735.	0.5	4
47	Stability and reconstruction of inverse gravity films (Review Article). <i>Low Temperature Physics</i> , 2012, 38, 991-1000.	0.6	0
48	The surface instability of liquid hydrogen and helium. <i>Low Temperature Physics</i> , 2012, 38, 1013-1025.	0.6	3
49	Kinetic and discrete turbulence on the surface of quantum liquids. <i>Physics-Uspexhi</i> , 2012, 55, 818-825.	2.2	4
50	Two different regimes of the turbulent wave cascade decay on the surface of quantum liquids. <i>Journal of Physics: Conference Series</i> , 2012, 400, 012001.	0.4	0
51	Turbulent capillary cascade near the edge of the inertial range on the surface of a quantum liquid. <i>JETP Letters</i> , 2012, 95, 670-679.	1.4	3
52	â€œQuasi-Planckâ€ spectra of capillary turbulence on the surface of liquid hydrogen. <i>JETP Letters</i> , 2011, 93, 31-34.	1.4	4
53	Structural transitions in ice samples at low temperatures and pressures. <i>JETP Letters</i> , 2011, 94, 621-625.	1.4	11
54	Fullerit C60 single crystals grown on earth and in space. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011, 75, 1031-1032.	0.6	0

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55	Classical capillary turbulence on the surface of quantum liquid He-II. <i>Low Temperature Physics</i> , 2011, 37, 403-407.	0.6	1
56	Observation of wave energy accumulation in the turbulent spectrum of capillary waves on the He-II surface under harmonic pumping. <i>JETP Letters</i> , 2010, 91, 271-276.	1.4	11
57	Capillary turbulence on the surface of normal and superfluid He4. <i>Low Temperature Physics</i> , 2009, 35, 95-99.	0.6	8
58	Evolution of a turbulent cascade on the surface of liquid hydrogen under a change in the spectral characteristic of an exciting force. <i>JETP Letters</i> , 2009, 89, 120-123.	1.4	8
59	Modification of turbulent cascade on the surface of liquid hydrogen with variation of the spectral characteristic of low frequency excitation. <i>Journal of Physics: Conference Series</i> , 2009, 150, 032011.	0.4	0
60	Capillary Turbulence on the Surfaces of Quantum Fluids. <i>Progress in Low Temperature Physics</i> , 2009, , 305-349.	0.2	10
61	Study of high-frequency edge of turbulent cascade on the surface of He-II. <i>Journal of Physics: Conference Series</i> , 2009, 150, 032001.	0.4	6
62	Neutron Studies of Impurity Gels of Heavy Water and Deuterium in Superfluid He-II. <i>Journal of Low Temperature Physics</i> , 2008, 150, 206-211.	1.4	16
63	Developed Capillary Turbulence on the Surface of Normal and Superfluid 4He. <i>Journal of Low Temperature Physics</i> , 2008, 150, 426-430.	1.4	3
64	Statistics of Capillary Waves on the Surface of Liquid Hydrogen in a Turbulent Regime. <i>Journal of Low Temperature Physics</i> , 2008, 150, 431-434.	1.4	4
65	Decay of Turbulence Generated by Spin-Down to Rest in Superfluid 4He. <i>Journal of Low Temperature Physics</i> , 2008, 153, 127-139.	1.4	17
66	Distribution of the probability of oscillations of the surface of liquid hydrogen in the turbulent regime. <i>JETP Letters</i> , 2008, 88, 19-23.	1.4	3
67	Dissipation of Quantum Turbulence in the Zero Temperature Limit. <i>Physical Review Letters</i> , 2007, 99, 265302.	7.8	145
68	Detection of Vortices in Superfluid 4He in the T=0 Limit Using Charged Vortex Rings. <i>Journal of Low Temperature Physics</i> , 2007, 146, 511-523.	1.4	12
69	Turbulence of Capillary Waves on the Surface of Quantum Liquids. <i>Journal of Low Temperature Physics</i> , 2007, 148, 245-249.	1.4	4
70	Experiments on the Vortex Dynamics in Superfluid 4He with no Normal Component. <i>Journal of Low Temperature Physics</i> , 2007, 148, 317-321.	1.4	8
71	Experimental Studies of Decay and Formation of Capillary Turbulence on the Surface of Liquid Hydrogen. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
72	Search for New Tool for Production of Ultracold Neutrons. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	3

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73	Decay of Capillary Turbulence on the Surface of a Semiquantum Liquid. AIP Conference Proceedings, 2006, , .	0.4	0
74	Experiments on the Dynamics of Vortices in Superfluid 4He with No Normal Component. Journal of Low Temperature Physics, 2006, 145, 143-154.	1.4	6
75	Nonstationary Nonlinear Phenomena on the Charged Surface of Liquid Hydrogen. Journal of Low Temperature Physics, 2006, 145, 311-335.	1.4	5
76	Suppression of high-frequency turbulent oscillations of the fluid surface by additional low-frequency pumping. JETP Letters, 2005, 82, 565-569.	1.4	9
77	Decay of the Turbulent Cascade of Capillary Waves on the Charged Surface of Liquid Hydrogen. Journal of Low Temperature Physics, 2005, 138, 519-524.	1.4	1
78	Nonlinear Second Sound Waves in Superfluid Helium in a Resonator. Journal of Low Temperature Physics, 2005, 138, 525-530.	1.4	1
79	Formation and Decay of Capillary Turbulence on the Charged Surface of Liquid Hydrogen. Journal of Low Temperature Physics, 2005, 139, 523-530.	1.4	4
80	Quasiadiabatic Decay of Capillary Turbulence on the Charged Surface of Liquid Hydrogen. Physical Review Letters, 2004, 93, 074501.	7.8	49
81	Decay of a turbulent cascade of capillary waves at the surface of liquid hydrogen. JETP Letters, 2004, 80, 90-94.	1.4	4
82	Turbulence of second sound waves in superfluid He II. Low Temperature Physics, 2004, 30, 441-445.	0.6	6
83	Stationary nonlinear waves at the surface of a thin liquid layer under inverted gravitation conditions. Low Temperature Physics, 2004, 30, 58-69.	0.6	2
84	Experimental evidence for the weak turbulence on the surface of liquid hydrogen. Physica B: Condensed Matter, 2003, 329-333, 419-420.	2.7	0
85	Motion of a probe nanoparticle in a quantum crystal with a narrow vacancy band. Low Temperature Physics, 2003, 29, 373-377.	0.6	0
86	The turbulence of capillary waves on the surface of liquid hydrogen. Journal of Experimental and Theoretical Physics, 2002, 95, 447-454.	0.9	25
87	Observation of capillary turbulence on the water surface in a wide range of frequencies. Europhysics Letters, 2002, 58, 510-516.	2.0	52
88	Instability and Reconstruction of Thin Liquid Layer Under Inversed Gravitation Conditions. Journal of Low Temperature Physics, 2002, 126, 385-390.	1.4	1
89	Nonlinear Waves on the Charged Surface of Liquid Hydrogen. Journal of Low Temperature Physics, 2002, 126, 569-577.	1.4	3
90	Excitation and Detection of Nonlinear Waves on a Charged Surface of Liquid Hydrogen. Instruments and Experimental Techniques, 2002, 45, 758-763.	0.5	28

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91	YuriĀ† Andreevich OsipĀ™yan (on his 70th birthday). <i>Low Temperature Physics</i> , 2001, 27, 162-163.	0.6	0
92	Linear and nonlinear waves on the charged surface of liquid hydrogen. <i>Low Temperature Physics</i> , 2001, 27, 876-882.	0.6	6
93	Capillary turbulence at the surface of liquid hydrogen. <i>JETP Letters</i> , 2001, 73, 398-400.	1.4	22
94	Measurement of the boundary frequency of the inertial interval of capillary wave turbulence at the surface of liquid hydrogen. <i>JETP Letters</i> , 2001, 74, 583-585.	1.4	16
95	Nanoparticle in a quantum crystal with a narrow vacancy band. <i>Physica B: Condensed Matter</i> , 2000, 280, 146-147.	2.7	0
96	Charged Surface of Liquid Hydrogen at Near Zero Gravitation. <i>Journal of Low Temperature Physics</i> , 2000, 119, 343-350.	1.4	7
97	Static phenomena at the charged surface of liquid hydrogen. <i>Low Temperature Physics</i> , 1999, 25, 242-249.	0.6	16
98	Reconstruction of Charged Hydrogen Surface. <i>Journal of Low Temperature Physics</i> , 1998, 111, 589-595.	1.4	3
99	Vacancy Assisted Motion of Charges in Quantum Crystals. <i>Journal of Low Temperature Physics</i> , 1998, 111, 545-554.	1.4	9
100	Reconstruction of the charged surface of liquid hydrogen. <i>Low Temperature Physics</i> , 1998, 24, 114-118.	0.6	0
101	Stationary soliton on a charged surface of liquid helium and hydrogen films. <i>JETP Letters</i> , 1997, 65, 572-578.	1.4	15
102	Shear modes in 2D ion crystals trapped below the surface of superfluid helium. <i>Surface Science</i> , 1996, 361-362, 843-846.	1.9	7
103	Experimental investigation of charged liquid hydrogen surface. <i>European Physical Journal D</i> , 1996, 46, 325-326.	0.4	0
104	Charge motion in solid deuterium. <i>European Physical Journal D</i> , 1996, 46, 511-512.	0.4	0
105	Movement of charges in solid deuterium. <i>JETP Letters</i> , 1996, 63, 376-380.	1.4	4
106	Stress-Induced Melting and Surface Instability of ^4He Crystals. <i>Europhysics Letters</i> , 1992, 20, 707-713.	2.0	31
107	Negative charges in liquid hydrogen and deuterium. <i>Journal of Low Temperature Physics</i> , 1992, 89, 457-463.	1.4	44
108	Interaction of charges with orthomolecules in solid hydrogen. <i>Physica B: Condensed Matter</i> , 1990, 165-166, 913-914.	2.7	0