Michael Uleysky

List of Publications by Year
in descending order

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78	1,052	430754	501076
papers	citations	18 h-index	28 g-index

81	81	81	349
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lagrangian study of transport and mixing in a mesoscale eddy street. Ocean Modelling, 2011, 38, 114-125.	1.0	60
2	Identifying Lagrangian fronts with favourable fishery conditions. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 90, 27-35.	0.6	58
3	Role of mesoscale eddies in transport of Fukushima-derived cesium isotopes in the ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 96, 15-27.	0.6	45
4	Hamiltonian fractals and chaotic scattering of passive particles by a topographical vortex and an alternating current. Physica D: Nonlinear Phenomena, 2004, 195, 369-378.	1.3	41
5	Detection of barriers to cross-jet Lagrangian transport and its destruction in a meandering flow. Physical Review E, 2009, 79, 056215.	0.8	39
6	Lagrangian analysis of mixing and transport of water masses in the marine bays. Izvestiya - Atmospheric and Oceanic Physics, 2013, 49, 82-96.	0.2	36
7	Ray chaos and ray clustering in an ocean waveguide. Chaos, 2004, 14, 79-95.	1.0	35
8	Lagrangian coherent structures in the ocean favorable for fishery. Doklady Earth Sciences, 2012, 447, 1269-1272.	0.2	35
9	Numerical simulation of propagation of radioactive pollution in the ocean from the Fukushima Dai-ichi nuclear power plant. Doklady Earth Sciences, 2011, 439, 1179-1182.	0.2	34
10	Chaotic mixing and transport in a meandering jet flow. Chaos, 2006, 16, 033117.	1.0	33
11	Chaotic scattering, transport, and fractals in a simple hydrodynamic flow. Journal of Experimental and Theoretical Physics, 2004, 99, 1018-1027.	0.2	32
12	Effect of dynamical traps on chaotic transport in a meandering jet flow. Chaos, 2007, 17, 043105.	1.0	32
13	Lagrangian Oceanography. Physics of Earth and Space Environments, 2017, , .	0.5	32
14	Lagrangian study of surface transport in the Kuroshio Extension area based on simulation of propagation of Fukushima-derived radionuclides. Nonlinear Processes in Geophysics, 2014, 21, 279-289.	0.6	31
15	Entanglement, fidelity, and quantum-classical correlations with an atom moving in a quantized cavity field. Physical Review A, 2006, 73, .	1.0	30
16	Atomic fractals in cavity quantum electrodynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 309, 357-362.	0.9	26
17	Lagrangian fronts in the ocean. Izvestiya - Atmospheric and Oceanic Physics, 2014, 50, 284-291.	0.2	24
18	Mechanism of destruction of transport barriers in geophysical jets with Rossby waves. Physical Review E, 2010, 81, 017202.	0.8	23

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19	Recovery of ordered periodic orbits with increasing wavelength for sound propagation in a range-dependent waveguide. Physical Review E, 2007, 76, 056212.	0.8	18
20	Wave chaos in a randomly inhomogeneous waveguide: Spectral analysis of the finite-range evolution operator. Physical Review E, 2013, 87, 012911.	0.8	18
21	How Eddies Gain, Retain, and Release Water: A Case Study of a Hokkaido Anticyclone. Journal of Geophysical Research: Oceans, 2018, 123, 2081-2096.	1.0	18
22	Impact of mesoscale eddies on surface flow between the Pacific Ocean and the Bering Sea across the Near Strait. Ocean Modelling, 2013, 72, 143-152.	1.0	16
23	Clustering in randomly driven Hamiltonian systems. Physical Review E, 2006, 73, 066210.	0.8	15
24	Lagrangian analysis of the vertical structure of eddies simulated in the Japan Basin of the Japan/East Sea. Ocean Modelling, 2015, 86, 128-140.	1.0	15
25	The Ray-Wave correspondence and the suppression of chaos in long-range sound propagation in the ocean. Acoustical Physics, 2008, 54, 382-391.	0.2	14
26	Specific PoincarÃ© map for a randomly-perturbed nonlinear oscillator. Journal of Physics A, 2006, 39, 489-497.	1.6	13
27	Lagrangian coherent structures, transport and chaotic mixing in simple kinematic ocean models. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 31-44.	1.7	13
28	Ray escape from a range-dependent underwater sound channel. Acoustical Physics, 2007, 53, 495-502.	0.2	13
29	Chaotic transport across two-dimensional jet streams. Journal of Experimental and Theoretical Physics, 2010, 111, 1039-1049.	0.2	13
30	Observation and Lagrangian Analysis of Quasiâ€Stationary Kamchatka Trench Eddies. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016187.	1.0	13
31	Lagrangian study of temporal changes of a surface flow through the Kamchatka Strait. Ocean Dynamics, 2014, 64, 771-780.	0.9	12
32	Genesis and bifurcations of unstable periodic orbits in a jet flow. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 215102.	0.7	11
33	Universal chaotic layer width in space-periodic Hamiltonian systems under adiabatic ac time-periodic forces. Europhysics Letters, 2010, 90, 40003.	0.7	11
34	Frequency-modulated ratchet with autoresonance. European Physical Journal B, 2010, 73, 571-579.	0.6	10
35	Chaos-assisted formation of immiscible matter-wave solitons and self-stabilization in the binary discrete nonlinear SchrÃ¶dinger equation. Communications in Nonlinear Science and Numerical Simulation, 2017, 43, 227-238.	1.7	10
36	Giant acceleration in slow-fast space-periodic Hamiltonian systems. Physical Review E, 2007, 75, 065201.	0.8	9

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37	Mesoscale circulation along the Sakhalin Island eastern coast. Ocean Dynamics, 2017, 67, 345-356.	0.9	9
38	Identification and Lagrangian analysis of oceanographic structures favorable for fishery of neon flying squid (Ommastrephes bartramii) in the South Kuril area. Oceanology, 2017, 57, 648-660.	0.3	9
39	Statistical analysis of Lagrangian transport of subtropical waters in the Japan Sea based on AVISO altimetry data. Nonlinear Processes in Geophysics, 2017, 24, 89-99.	0.6	9
40	Lagrangian study of mesoscale circulation in the Alaskan Stream area and the eastern Bering Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2019, 169-170, 104560.	0.6	9
41	Water dynamics in the western Bering Sea and its impact on chlorophyll a concentration. Ocean Dynamics, 2020, 70, 593-602.	0.9	9
42	Interaction of the Lofoten Vortex with a Satellite Cyclone. Pure and Applied Geophysics, 2021, 178, 287-300.	0.8	9
43	Generation of the ballistic particle transport in a periodic Hamiltonian system subjected to small time-dependent perturbation. JETP Letters, 2006, 83, 522-525.	0.4	8
44	Coastal summer eddies in the Peter the Great Bay of the Japan sea: In situ data, numerical modeling and Lagrangian analysis. Continental Shelf Research, 2019, 181, 143-155.	0.9	8
45	Odyssey of Aleutian eddies. Ocean Dynamics, 2022, 72, 455-476.	0.9	8
46	Local chaos induced by spatial oscillations of a perturbation. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 400-406.	1.7	7
47	Lagrangian Tools to Study Transport and Mixing in the Ocean. Physics of Earth and Space Environments, 2017, , 95-115.	0.5	7
48	Simulated Pathways of the Northwestern Pacific Water in the Okhotsk Sea. Izvestiya - Atmospheric and Oceanic Physics, 2021, 57, 329-340.	0.2	7
49	Mesoscale dynamics and walleye pollock catches in the Navarin Canyon area of the Bering Sea. Ocean Dynamics, 2018, 68, 1503-1514.	0.9	6
50	The impact of circulation features on the dispersion of radionuclides after the nuclear submarine accident in Chazhma Bay (Japan Sea) in 1985: A retrospective Lagrangian simulation. Marine Pollution Bulletin, 2022, 177, 113483.	2.3	6
51	On the possibility of determining internal wave characteristics from the ray arrival time distribution in an underwater sound channel under conditions of Ray Chaos. Technical Physics Letters, 2003, 29, 430-432.	0.2	5
52	Dynamics of Bec Mixtures Loaded into the Optical Lattice in the Presence of Linear Inter-Component Coupling. Journal of Russian Laser Research, 2014, 35, 138-150.	0.3	5
53	Stable and unstable periodic orbits and their bifurcations in the nonlinear dynamical system with a fixed point vortex in a periodic flow. Communications in Nonlinear Science and Numerical Simulation, 2020, 91, 105426.	1.7	5
54	RELATIONSHIP OF THE GREENLAND HALIBUT STOCKS IN THE OKHOTSK SEA WITH ENVIRONMENTAL FACTORS. Izvestiya Tinro, 0, 200, 58-81.	0.2	5

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55	Simulation of Winter Deep Slope Convection in Peter the Great Bay (Japan Sea). Fluids, 2022, 7, 134.	0.8	5
56	Autoresonant cooling of particles in spatially periodic potentials. Technical Physics Letters, 2010, 36, 1082-1084.	0.2	4
57	Relationship between Saury Fishing Grounds and Large-Scale Coherent Structures in the Ocean, According to Satellite Data. Izvestiya - Atmospheric and Oceanic Physics, 2020, 56, 1638-1644.	0.2	4
58	Lagrangian Analysis of Transport Pathways of Subtropical Water to the Primorye Coast. Doklady Earth Sciences, 2018, 481, 1099-1103.	0.2	3
59	New Circulation Features in the Okhotsk Sea from a Numerical Model. Izvestiya - Atmospheric and Oceanic Physics, 2020, 56, 618-631.	0.2	3
60	Quasi-Permanent Mushroom-like Dipole in the Lofoten Basin. Pure and Applied Geophysics, 2022, 179, 465-482.	0.8	3
61	Quantum instability in cavity QED. JETP Letters, 2005, 82, 748-752.	0.4	2
62	Nonlinear resonances in the ABC-flow. Chaos, 2018, 28, 013123.	1.0	2
63	CONTROL OF ATOMIC TRANSPORT USING AUTORESONANCE. , 2012, , 24-32.		2
64	Lagrangian characteristics in the western North Pacific help to explain variability in Pacific saury fishery. Fisheries Research, 2022, 252, 106361.	0.9	2
65	Lagrangian approach to chaotic transport and mixing in the Japan Sea. , 2011, , .		1
66	Lagrangian Fronts and Coherent Structures Favorable for Fishery and Foraging Strategy of Top Marine Predators. Physics of Earth and Space Environments, 2017, , 223-256.	0.5	1
67	Lagrangian study of transport of subarctic water across the Subpolar Front in the Japan Sea. Ocean Dynamics, 2018, 68, 701-712.	0.9	1
68	Quantum Nonlinear Oscillator with Two Degrees of Freedom in a Laser Field. Journal of Russian Laser Research, 2001, 22, 69-83.	0.3	0
69	Chaotic absorption of coherent laser light by an anharmonic molecule. , 2002, 4748, 89.		0
70	Quantum Chaos and Quantum Fractals With Atoms and Photons in a Microcavity. , 2005, , 195.		0
71	Resonant influence of spatial oscillations of a perturbation on motion of a nonlinear oscillator. , 2006, , .		0
72	Cross-Frontal Chaotic Transport in Oceanic Jet Currents. , 2009, , .		0

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73	Dynamics of Eddies in the Ocean. Physics of Earth and Space Environments, 2017, , 141-184.	0.5	0
74	LAGRANGIAN TOOLS TO MONITOR CHAOTIC TRANSPORT AND MIXING IN THE OCEAN. , 2012, , 33-46.		0
75	Oceans from the Space and Operational Oceanography. Physics of Earth and Space Environments, 2017, , 83-94.	0.5	0
76	The Dynamical Systems Theory Approach to Transport and Mixing in Fluids. Physics of Earth and Space Environments, 2017, , 1-17.	0.5	0
77	Fukushima-Derived Cesium Isotopes in the North Western Pacific: Direct Observation and Altimetry-Based Simulation of Propagation. Physics of Earth and Space Environments, 2017, , 185-221.	0.5	0
78	Chaotic Transport and Mixing in Idealized Models of Oceanic Currents. Physics of Earth and Space Environments, 2017, , 19-81.	0.5	0