

# Michael Uleysky

## List of Publications by Year in descending order

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78  
papers

1,052  
citations

430754

18  
h-index

501076

28  
g-index

81  
all docs

81  
docs citations

81  
times ranked

349  
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Marine Pollution Bulletin</i> , 2022, 177, 113483.	2.3	6
2	Quasi-Permanent Mushroom-like Dipole in the Lofoten Basin. <i>Pure and Applied Geophysics</i> , 2022, 179, 465-482.	0.8	3
3	Simulation of Winter Deep Slope Convection in Peter the Great Bay (Japan Sea). <i>Fluids</i> , 2022, 7, 134.	0.8	5
4	Lagrangian characteristics in the western North Pacific help to explain variability in Pacific saury fishery. <i>Fisheries Research</i> , 2022, 252, 106361.	0.9	2
5	Odyssey of Aleutian eddies. <i>Ocean Dynamics</i> , 2022, 72, 455-476.	0.9	8
6	Interaction of the Lofoten Vortex with a Satellite Cyclone. <i>Pure and Applied Geophysics</i> , 2021, 178, 287-300.	0.8	9
7	Simulated Pathways of the Northwestern Pacific Water in the Okhotsk Sea. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2021, 57, 329-340.	0.2	7
8	Observation and Lagrangian Analysis of Quasi-Stationary Kamchatka Trench Eddies. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016187.	1.0	13
9	Stable and unstable periodic orbits and their bifurcations in the nonlinear dynamical system with a fixed point vortex in a periodic flow. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 91, 105426.	1.7	5
10	Water dynamics in the western Bering Sea and its impact on chlorophyll a concentration. <i>Ocean Dynamics</i> , 2020, 70, 593-602.	0.9	9
11	New Circulation Features in the Okhotsk Sea from a Numerical Model. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2020, 56, 618-631.	0.2	3
12	Relationship between Saury Fishing Grounds and Large-Scale Coherent Structures in the Ocean, According to Satellite Data. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2020, 56, 1638-1644.	0.2	4
13	Coastal summer eddies in the Peter the Great Bay of the Japan sea: In situ data, numerical modeling and Lagrangian analysis. <i>Continental Shelf Research</i> , 2019, 181, 143-155.	0.9	8
14	Lagrangian study of mesoscale circulation in the Alaskan Stream area and the eastern Bering Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 169-170, 104560.	0.6	9
15	Nonlinear resonances in the ABC-flow. <i>Chaos</i> , 2018, 28, 013123.	1.0	2
16	Lagrangian study of transport of subarctic water across the Subpolar Front in the Japan Sea. <i>Ocean Dynamics</i> , 2018, 68, 701-712.	0.9	1
17	How Eddies Gain, Retain, and Release Water: A Case Study of a Hokkaido Anticyclone. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2081-2096.	1.0	18
18	Lagrangian Analysis of Transport Pathways of Subtropical Water to the Primorye Coast. <i>Doklady Earth Sciences</i> , 2018, 481, 1099-1103.	0.2	3

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19	Mesoscale dynamics and walleye pollock catches in the Navarin Canyon area of the Bering Sea. <i>Ocean Dynamics</i> , 2018, 68, 1503-1514.	0.9	6
20	Mesoscale circulation along the Sakhalin Island eastern coast. <i>Ocean Dynamics</i> , 2017, 67, 345-356.	0.9	9
21	Lagrangian Fronts and Coherent Structures Favorable for Fishery and Foraging Strategy of Top Marine Predators. <i>Physics of Earth and Space Environments</i> , 2017, , 223-256.	0.5	1
22	Lagrangian Tools to Study Transport and Mixing in the Ocean. <i>Physics of Earth and Space Environments</i> , 2017, , 95-115.	0.5	7
23	Dynamics of Eddies in the Ocean. <i>Physics of Earth and Space Environments</i> , 2017, , 141-184.	0.5	0
24	Lagrangian Oceanography. <i>Physics of Earth and Space Environments</i> , 2017, , .	0.5	32
25	Identification and Lagrangian analysis of oceanographic structures favorable for fishery of neon flying squid ( <i>Ommastrephes bartramii</i> ) in the South Kuril area. <i>Oceanology</i> , 2017, 57, 648-660.	0.3	9
26	Chaos-assisted formation of immiscible matter-wave solitons and self-stabilization in the binary discrete nonlinear Schrödinger equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 43, 227-238.	1.7	10
27	Statistical analysis of Lagrangian transport of subtropical waters in the Japan Sea based on AVISO altimetry data. <i>Nonlinear Processes in Geophysics</i> , 2017, 24, 89-99.	0.6	9
28	Oceans from the Space and Operational Oceanography. <i>Physics of Earth and Space Environments</i> , 2017, , 83-94.	0.5	0
29	The Dynamical Systems Theory Approach to Transport and Mixing in Fluids. <i>Physics of Earth and Space Environments</i> , 2017, , 1-17.	0.5	0
30	Fukushima-Derived Cesium Isotopes in the North Western Pacific: Direct Observation and Altimetry-Based Simulation of Propagation. <i>Physics of Earth and Space Environments</i> , 2017, , 185-221.	0.5	0
31	Chaotic Transport and Mixing in Idealized Models of Oceanic Currents. <i>Physics of Earth and Space Environments</i> , 2017, , 19-81.	0.5	0
32	Lagrangian analysis of the vertical structure of eddies simulated in the Japan Basin of the Japan/East Sea. <i>Ocean Modelling</i> , 2015, 86, 128-140.	1.0	15
33	Role of mesoscale eddies in transport of Fukushima-derived cesium isotopes in the ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 96, 15-27.	0.6	45
34	Lagrangian study of surface transport in the Kuroshio Extension area based on simulation of propagation of Fukushima-derived radionuclides. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 279-289.	0.6	31
35	Lagrangian study of temporal changes of a surface flow through the Kamchatka Strait. <i>Ocean Dynamics</i> , 2014, 64, 771-780.	0.9	12
36	Identifying Lagrangian fronts with favourable fishery conditions. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 90, 27-35.	0.6	58

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37	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
38	Lagrangian fronts in the ocean. Izvestiya - Atmospheric and Oceanic Physics, 2014, 50, 284-291.	0.2	24
39	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
40	Wave chaos in a randomly inhomogeneous waveguide: Spectral analysis of the finite-range evolution operator. Physical Review E, 2013, 87, 012911.	0.8	18
41	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
42	Lagrangian coherent structures in the ocean favorable for fishery. Doklady Earth Sciences, 2012, 447, 1269-1272.	0.2	35
43	CONTROL OF ATOMIC TRANSPORT USING AUTORESONANCE. , 2012, , 24-32.		2
44	LAGRANGIAN TOOLS TO MONITOR CHAOTIC TRANSPORT AND MIXING IN THE OCEAN. , 2012, , 33-46.		0
45	Lagrangian study of transport and mixing in a mesoscale eddy street. Ocean Modelling, 2011, 38, 114-125.	1.0	60
46	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
47	Lagrangian approach to chaotic transport and mixing in the Japan Sea. , 2011, , .		1
48	Universal chaotic layer width in space-periodic Hamiltonian systems under adiabatic ac time-periodic forces. Europhysics Letters, 2010, 90, 40003.	0.7	11
49	Chaotic transport across two-dimensional jet streams. Journal of Experimental and Theoretical Physics, 2010, 111, 1039-1049.	0.2	13
50	Autoresonant cooling of particles in spatially periodic potentials. Technical Physics Letters, 2010, 36, 1082-1084.	0.2	4
51	Frequency-modulated ratchet with autoresonance. European Physical Journal B, 2010, 73, 571-579.	0.6	10
52	Mechanism of destruction of transport barriers in geophysical jets with Rossby waves. Physical Review E, 2010, 81, 017202.	0.8	23
53	Detection of barriers to cross-jet Lagrangian transport and its destruction in a meandering flow. Physical Review E, 2009, 79, 056215.	0.8	39
54	Cross-Frontal Chaotic Transport in Oceanic Jet Currents. , 2009, , .		0

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55	Local chaos induced by spatial oscillations of a perturbation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 400-406.	1.7	7
56	The Ray-Wave correspondence and the suppression of chaos in long-range sound propagation in the ocean. <i>Acoustical Physics</i> , 2008, 54, 382-391.	0.2	14
57	Genesis and bifurcations of unstable periodic orbits in a jet flow. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 215102.	0.7	11
58	Recovery of ordered periodic orbits with increasing wavelength for sound propagation in a range-dependent waveguide. <i>Physical Review E</i> , 2007, 76, 056212.	0.8	18
59	Giant acceleration in slow-fast space-periodic Hamiltonian systems. <i>Physical Review E</i> , 2007, 75, 065201.	0.8	9
60	Effect of dynamical traps on chaotic transport in a meandering jet flow. <i>Chaos</i> , 2007, 17, 043105.	1.0	32
61	Lagrangian coherent structures, transport and chaotic mixing in simple kinematic ocean models. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2007, 12, 31-44.	1.7	13
62	Ray escape from a range-dependent underwater sound channel. <i>Acoustical Physics</i> , 2007, 53, 495-502.	0.2	13
63	Entanglement, fidelity, and quantum-classical correlations with an atom moving in a quantized cavity field. <i>Physical Review A</i> , 2006, 73, .	1.0	30
64	Generation of the ballistic particle transport in a periodic Hamiltonian system subjected to small time-dependent perturbation. <i>JETP Letters</i> , 2006, 83, 522-525.	0.4	8
65	Chaotic mixing and transport in a meandering jet flow. <i>Chaos</i> , 2006, 16, 033117.	1.0	33
66	Resonant influence of spatial oscillations of a perturbation on motion of a nonlinear oscillator. , 2006, , .		0
67	Clustering in randomly driven Hamiltonian systems. <i>Physical Review E</i> , 2006, 73, 066210.	0.8	15
68	Specific Poincaré map for a randomly-perturbed nonlinear oscillator. <i>Journal of Physics A</i> , 2006, 39, 489-497.	1.6	13
69	Quantum instability in cavity QED. <i>JETP Letters</i> , 2005, 82, 748-752.	0.4	2
70	Quantum Chaos and Quantum Fractals With Atoms and Photons in a Microcavity. , 2005, , 195.		0
71	Ray chaos and ray clustering in an ocean waveguide. <i>Chaos</i> , 2004, 14, 79-95.	1.0	35
72	Chaotic scattering, transport, and fractals in a simple hydrodynamic flow. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 99, 1018-1027.	0.2	32

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73	Hamiltonian fractals and chaotic scattering of passive particles by a topographical vortex and an alternating current. <i>Physica D: Nonlinear Phenomena</i> , 2004, 195, 369-378.	1.3	41
74	Atomic fractals in cavity quantum electrodynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 309, 357-362.	0.9	26
75	On the possibility of determining internal wave characteristics from the ray arrival time distribution in an underwater sound channel under conditions of Ray Chaos. <i>Technical Physics Letters</i> , 2003, 29, 430-432.	0.2	5
76	Chaotic absorption of coherent laser light by an anharmonic molecule. , 2002, 4748, 89.		0
77	Quantum Nonlinear Oscillator with Two Degrees of Freedom in a Laser Field. <i>Journal of Russian Laser Research</i> , 2001, 22, 69-83.	0.3	0
78	RELATIONSHIP OF THE GREENLAND HALIBUT STOCKS IN THE OKHOTSK SEA WITH ENVIRONMENTAL FACTORS. <i>Izvestiya Tinro</i> , 0, 200, 58-81.	0.2	5