

# Victor M Stepanenko

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

509  
citations

10  
h-index

21  
g-index

78  
ext. papers

738  
ext. citations

2.6  
avg, IF

3.51  
L-index

#	Paper	IF	Citations
52	On the use of large-eddy simulation time data coarsening for dispersion forecasting in the SILAM atmospheric composition model. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2022</b> , 1023, 012008	0.3	
51	The role of background diffusivity and mean subsidence in the temperature stratification in the Mozhaysk reservoir according to the LAKE 2.3 model. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2022</b> , 1023, 012013	0.3	
50	Variable Physical Drivers of Near-Surface Turbulence in a Regulated River. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR027939	5.4	1
49	The Effect of the Horizontal Dimensions of Inland Water Bodies on the Thickness of the Upper Mixed Layer. <i>Water Resources</i> , <b>2021</b> , 48, 226-234	0.9	1
48	Balloons and Quadcopters: Intercomparison of Two Low-Cost Wind Profiling Methods. <i>Atmosphere</i> , <b>2021</b> , 12, 380	2.7	3
47	Phenological shifts in lake stratification under climate change. <i>Nature Communications</i> , <b>2021</b> , 12, 2318	17.4	27
46	Derivation of Heat Conductivity from Temperature and Heat Flux Measurements in Soil. <i>Land</i> , <b>2021</b> , 10, 552	3.5	1
45	On the Factors Affecting Mixed Layer Depth in the Inland Water Objects. <i>Springer Geology</i> , <b>2021</b> , 301-310.8		
44	An Overview of Parameterezations of Heat Transfer over Moss-Covered Surfaces in the Earth System Models. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , <b>2020</b> , 56, 101-111	1	0
43	Multimodel simulation of vertical gas transfer in a temperate lake. <i>Hydrology and Earth System Sciences</i> , <b>2020</b> , 24, 697-715	5.5	9
42	Global Heat Uptake by Inland Waters. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087867	4.9	16
41	Horizontal Pressure Gradient Parameterization for One-Dimensional Lake Models. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS001906	7.1	0
40	Numerical study of the seasonal thermal and gas regimes of the largest artificial reservoir in western Europe using the LAKE 2.0 model. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 3475-3488	6.3	5
39	Two Regimes of Turbulent Fluxes Above a Frozen Small Lake Surrounded by Forest. <i>Boundary-Layer Meteorology</i> , <b>2019</b> , 173, 311-320	3.4	6
38	Bulk Models of Sheared Boundary Layer Convection. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , <b>2019</b> , 55, 139-151	1	4
37	Regional Climate Modelling: Methods of Obtaining the Mesoscale from High-Resolution Data. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 231, 012018	0.3	
36	Numerical Simulation of Ice Cover of Saline Lakes. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , <b>2019</b> , 55, 129-138	1	9

35	Verification of the INM RAS-MSU land surface scheme using temperature and moisture measurements in peat and mineral soils. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 386, 012031	0.3	
34	An experimental study of atmospheric turbulence characteristics in an urban canyon. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 386, 012035	0.3	1
33	High-resolution simulation of particle transport in the urban atmospheric boundary layer. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 386, 012045	0.3	
32	Methane Emission From the Surface of the Mozhaisk Valley-Type Reservoir. <i>Geography and Natural Resources</i> , <b>2019</b> , 40, 247-255	0.4	1
31	Observations and modelling of downslope windstorm in Novorossiysk. <i>Dynamics of Atmospheres and Oceans</i> , <b>2018</b> , 83, 83-99	1.9	5
30	Mid-depth temperature maximum in an estuarine lake. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 035006.2	0.2	3
29	On the numerical performance of turbulent closure schemes in a 1D lake model. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 211, 012038	0.3	
28	On the Applicability of Similarity Theory for the Stable Atmospheric Boundary Layer over Complex Terrain. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , <b>2018</b> , 54, 462-471	1	5
27	Investigation of the ice surface albedo in the Tibetan Plateau lakes based on the field observation and MODIS products. <i>Journal of Glaciology</i> , <b>2018</b> , 64, 506-516	3.4	10
26	Variability in methane emissions from West Siberia's shallow boreal lakes on a regional scale and its environmental controls. <i>Biogeosciences</i> , <b>2017</b> , 14, 3715-3742	4.6	23
25	Experimental study of heat and momentum exchange between a forest lake and the atmosphere in winter. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2017</b> , 96, 012003	0.3	4
24	Numerical simulation of the structure and evolution of a polar mesocyclone over the Kara Sea. Part 1. Model validation and estimation of instability mechanisms. <i>Russian Meteorology and Hydrology</i> , <b>2016</b> , 41, 425-434	0.8	7
23	NUMERICAL SIMULATION OF METHANE EMISSION FROM SUBARCTIC LAKE IN KOMI REPUBLIC (RUSSIA). <i>Geography, Environment, Sustainability</i> , <b>2016</b> , 9, 58-74	1	2
22	LAKE 2.0: a model for temperature, methane, carbon dioxide and oxygen dynamics in lakes. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 1977-2006	6.3	44
21	Development of lake parametrization in the INMCM climate model. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2016</b> , 48, 012005	0.3	2
20	Large-eddy simulation and stochastic modeling of Lagrangian particles for footprint determination in the stable boundary layer. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 2925-2949	6.3	11
19	Large-eddy simulation of stratified turbulent flows over heterogeneous landscapes. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , <b>2015</b> , 51, 351-361	1	7
18	Effects of water clarity on lake stratification and lake-atmosphere heat exchange. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 7412-7428	4.4	58

17	LakeMIP Kivu: evaluating the representation of a large, deep tropical lake by a set of one-dimensional lake models. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , <b>2014</b> , 66, 21390	2	72
16	Simulation of surface energy fluxes and stratification of a small boreal lake by a set of one-dimensional models. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , <b>2014</b> , 66, 21389	2	47
15	A one-dimensional model intercomparison study of thermal regime of a shallow, turbid midlatitude lake. <i>Geoscientific Model Development</i> , <b>2013</b> , 6, 1337-1352	6.3	58
14	A one-dimensional model intercomparison study of thermal regime of a shallow turbid midlatitude lake <b>2012</b> ,		2
13	Numerical modeling of methane emissions from lakes in the permafrost zone. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , <b>2011</b> , 47, 252-264	1	44
12	Numerical modeling of the influence of cool skin on the heat balance and thermal regime of a water body. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , <b>2010</b> , 46, 499-510	1	1
11	The Implementation of Regional Atmospheric Model Numerical Algorithms for CBEA-Based Clusters. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 525-534	0.9	
10	Global heat uptake by inland waters		3
9	Attribution of global lake systems change to anthropogenic forcing. <i>Nature Geoscience</i> ,	18.3	8
8	Parametrization of soil thermal conductivity in the INM RAS-MSU land surface model. <i>IOP Conference Series: Earth and Environmental Science</i> , 611, 012022	0.3	
7	Methane fluxes in an artificial valley reservoir according to field observations and mathematical modeling. <i>IOP Conference Series: Earth and Environmental Science</i> , 611, 012029	0.3	
6	Parametrization of snow accumulation under forest canopy for INM RAS-MSU land surface model. <i>IOP Conference Series: Earth and Environmental Science</i> , 611, 012019	0.3	
5	Numerical simulation of intense precipitation in Moscow region: a case study of a heavy rainfall event on June 30, 2017. <i>IOP Conference Series: Earth and Environmental Science</i> , 611, 012024	0.3	
4	Numerical simulation of turbulent mixing and transport of biochemical substances in inland waters. <i>IOP Conference Series: Earth and Environmental Science</i> , 611, 012013	0.3	
3	Numerical simulation of particle transport in the urban boundary layer with implications for SARS-CoV-2 virion distribution. <i>IOP Conference Series: Earth and Environmental Science</i> , 611, 012017	0.3	
2	The influence of external parameters on river runoff in the INM RAS [MSU land surface model. <i>IOP Conference Series: Earth and Environmental Science</i> , 611, 012023	0.3	
1	Modeling the temperature and humidity conditions of mineral soils in an active layer model taking into account in depth changes in the thermodynamic properties of the soil. <i>IOP Conference Series: Earth and Environmental Science</i> , 611, 012012	0.3	2