Victor M Stepanenko

List of Publications by Year
in descending order

52	981	567144 15	477173 29
papers	citations	h-index	g-index

78	78	78	954
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phenological shifts in lake stratification under climate change. Nature Communications, 2021, 12, 2318.	5.8	118
2	LakeMIP Kivu: evaluating the representation of a large, deep tropical lake by a set of one-dimensional lake models. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 66, 21390.	0.8	88
3	LAKE 2.0: a model for temperature, methane, carbon dioxide and oxygen dynamics in lakes. Geoscientific Model Development, 2016, 9, 1977-2006.	1.3	80
4	A one-dimensional model intercomparison study of thermal regime of a shallow, turbid midlatitude lake. Geoscientific Model Development, 2013, 6, 1337-1352.	1.3	77
5	Effects of water clarity on lake stratification and lakeâ€atmosphere heat exchange. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7412-7428.	1.2	77
6	Attribution of global lake systems change to anthropogenic forcing. Nature Geoscience, 2021, 14, 849-854.	5.4	70
7	Numerical modeling of methane emissions from lakes in the permafrost zone. Izvestiya - Atmospheric and Oceanic Physics, 2011, 47, 252-264.	0.2	66
8	Simulation of surface energy fluxes and stratification of a small boreal lake by a set of one-dimensional models. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 66, 21389.	0.8	58
9	A framework for ensemble modelling of climate change impacts on lakes worldwide: the ISIMIP Lake Sector. Geoscientific Model Development, 2022, 15, 4597-4623.	1.3	37
10	Variability in methane emissions from West Siberia's shallow boreal lakes on a regional scale and its environmental controls. Biogeosciences, 2017, 14, 3715-3742.	1.3	32
11	Global Heat Uptake by Inland Waters. Geophysical Research Letters, 2020, 47, e2020GL087867.	1.5	31
12	Large-eddy simulation and stochastic modeling of Lagrangian particles for footprint determination in the stable boundary layer. Geoscientific Model Development, 2016, 9, 2925-2949.	1.3	29
13	Numerical Simulation of Ice Cover of Saline Lakes. Izvestiya - Atmospheric and Oceanic Physics, 2019, 55, 129-138.	0.2	21
14	Multimodel simulation of vertical gas transfer in a temperate lake. Hydrology and Earth System Sciences, 2020, 24, 697-715.	1.9	20
15	Investigation of the ice surface albedo in the Tibetan Plateau lakes based on the field observation and MODIS products. Journal of Glaciology, 2018, 64, 506-516.	1.1	17
16	Two Regimes of Turbulent Fluxes Above a Frozen Small Lake Surrounded by Forest. Boundary-Layer Meteorology, 2019, 173, 311-320.	1.2	13
17	Balloons and Quadcopters: Intercomparison of Two Low-Cost Wind Profiling Methods. Atmosphere, 2021, 12, 380.	1.0	13
18	Numerical simulation of the structure and evolution of a polar mesocyclone over the Kara Sea. Part 1. Model validation and estimation of instability mechanisms. Russian Meteorology and Hydrology, 2016, 41, 425-434.	0.2	11

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19	Variable Physical Drivers of Nearâ€Surface Turbulence in a Regulated River. Water Resources Research, 2021, 57, e2020WR027939.	1.7	11
20	Numerical study of the seasonal thermal and gas regimes of the largest artificial reservoir in western Europe using the LAKE 2.0 model. Geoscientific Model Development, 2020, 13, 3475-3488.	1.3	10
21	Large-eddy simulation of stratified turbulent flows over heterogeneous landscapes. Izvestiya - Atmospheric and Oceanic Physics, 2015, 51, 351-361.	0.2	9
22	An Overview of Parameterezations of Heat Transfer over Moss-Covered Surfaces in the Earth System Models. Izvestiya - Atmospheric and Oceanic Physics, 2020, 56, 101-111.	0.2	9
23	On the Applicability of Similarity Theory for the Stable Atmospheric Boundary Layer over Complex Terrain. Izvestiya - Atmospheric and Oceanic Physics, 2018, 54, 462-471.	0.2	7
24	Derivation of Heat Conductivity from Temperature and Heat Flux Measurements in Soil. Land, 2021, 10, 552.	1.2	7
25	Mid-depth temperature maximum in an estuarine lake. Environmental Research Letters, 2018, 13, 035006.	2.2	6
26	Bulk Models of Sheared Boundary Layer Convection. Izvestiya - Atmospheric and Oceanic Physics, 2019, 55, 139-151.	0.2	6
27	NUMERICAL SIMULATION OF METHANE EMISSION FROM SUBARCTIC LAKE IN KOMI REPUBLIC (RUSSIA). Geography, Environment, Sustainability, 2016, 9, 58-74.	0.6	6
28	Experimental study of heat and momentum exchange between a forest lake and the atmosphere in winter. IOP Conference Series: Earth and Environmental Science, 2017, 96, 012003.	0.2	5
29	Observations and modelling of downslope windstorm in Novorossiysk. Dynamics of Atmospheres and Oceans, 2018, 83, 83-99.	0.7	5
30	Methane Emission From the Surface of the Mozhaisk Valley-Type Reservoir. Geography and Natural Resources, 2019, 40, 247-255.	0.1	5
31	The Effect of the Horizontal Dimensions of Inland Water Bodies on the Thickness of the Upper Mixed Layer. Water Resources, 2021, 48, 226-234.	0.3	4
32	Development of lake parametrization in the INMCM climate model. IOP Conference Series: Earth and Environmental Science, 2016, 48, 012005.	0.2	3
33	Horizontal Pressure Gradient Parameterization for Oneâ€Dimensional Lake Models. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001906.	1.3	3
34	An experimental study of atmospheric turbulence characteristics in an urban canyon. IOP Conference Series: Earth and Environmental Science, 2019, 386, 012035.	0.2	2
35	High-resolution simulation of particle transport in the urban atmospheric boundary layer. IOP Conference Series: Earth and Environmental Science, 2019, 386, 012045.	0.2	2
36	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. IOP Conference Series: Earth and Environmental Science, 2020, 611, 012012.	0.2	2

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37	Methane fluxes in an artificial valley reservoir according to field observations and mathematical modeling. IOP Conference Series: Earth and Environmental Science, 2020, 611, 012029.	0.2	2
38	Numerical modeling of the influence of cool skin on the heat balance and thermal regime of a water body. Izvestiya - Atmospheric and Oceanic Physics, 2010, 46, 499-510.	0.2	1
39	Parametrization of soil thermal conductivity in the INM RAS-MSU land surface model. IOP Conference Series: Earth and Environmental Science, 0, 611, 012022.	0.2	1
40	Parametrization of snow accumulation under forest canopy for INM RAS-MSU land surface model. IOP Conference Series: Earth and Environmental Science, 2020, 611, 012019.	0.2	1
41	Numerical simulation of particle transport in the urban boundary layer with implications for SARS-CoV-2 virion distribution. IOP Conference Series: Earth and Environmental Science, 2020, 611, 012017.	0.2	1
42	The Implementation of Regional Atmospheric Model Numerical Algorithms for CBEA-Based Clusters. Lecture Notes in Computer Science, 2010, , 525-534.	1.0	0
43	On the numerical performance of turbulent closure schemes in a 1D lake model. IOP Conference Series: Earth and Environmental Science, 2018, 211, 012038.	0.2	0
44	Regional Climate Modelling: Methods of Obtaining the Mesoscale from High-Resolution Data. IOP Conference Series: Earth and Environmental Science, 2019, 231, 012018.	0.2	0
45	Verification of the INM RAS-MSU land surface scheme using temperature and moisture measurements in peat and mineral soils. IOP Conference Series: Earth and Environmental Science, 2019, 386, 012031.	0.2	0
46	On the Factors Affecting Mixed Layer Depth in the Inland Water Objects. Springer Geology, 2021, , 301-310.	0.2	0
47	Numerical simulation of ice cover of saline lakes. , 2019, 55, 152-163.	0.0	0
48	Numerical simulation of intense precipitation in Moscow region: a case study of a heavy rainfall event on June 30, 2017. IOP Conference Series: Earth and Environmental Science, 0, 611, 012024.	0.2	0
49	Numerical simulation of turbulent mixing and transport of biochemical substances in inland waters. IOP Conference Series: Earth and Environmental Science, 0, 611, 012013.	0.2	0
50	The influence of external parameters on river runoff in the INM RAS â€“ MSU land surface model. IOP Conference Series: Earth and Environmental Science, 0, 611, 012023.	0.2	0
51	On the use of large-eddy simulation time data coarsening for dispersion forecasting in the SILAM atmospheric composition model. IOP Conference Series: Earth and Environmental Science, 2022, 1023, 012008.	0.2	0
52	The role of background diffusivity and mean subsidence in the temperature stratification in the Mozhaysk reservoir according to the LAKE 2.3 model. IOP Conference Series: Earth and Environmental Science, 2022, 1023, 012013.	0.2	0