Georgy V Ayzel

List of Publications by Year
in descending order

30	532	933447 10	677142 22
papers	citations	h-index	g-index

42	42	42	332
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	RainNet v1.0: aÂconvolutional neural network for radar-based precipitation nowcasting. Geoscientific Model Development, 2020, 13, 2631-2644.	3.6	122
2	Optical flow models as an open benchmark for radar-based precipitation nowcasting (rainymotion) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	86
3	All convolutional neural networks for radar-based precipitation nowcasting. Procedia Computer Science, 2019, 150, 186-192.	2.0	59
4	The effect of calibration data length on the performance of a conceptual hydrological model versus LSTM and GRU: A case study for six basins from the CAMELS dataset. Computers and Geosciences, 2021, 149, 104708.	4.2	45
5	Climate Change Impact Assessment on Freshwater Inflow into the Small Aral Sea. Water (Switzerland), 2019, 11, 2377.	2.7	18
6	Modeling streamflow of the Olenek and Indigirka rivers using land surface model SWAP. Water Resources, 2013, 40, 535-543.	0.9	15
7	Towards urban flood susceptibility mapping using data-driven models in Berlin, Germany. Geomatics, Natural Hazards and Risk, 2022, 13, 1640-1662.	4.3	14
8	Modelling river runoff and estimating its weather-related uncertainty for 11 large-scale rivers located in different regions of the globe. Hydrology Research, 2018, 49, 1072-1087.	2.7	13
9	Development of a Regional Gridded Runoff Dataset Using Long Short-Term Memory (LSTM) Networks. Hydrology, 2021, 8, 6.	3.0	13
10	OpenForecast: The First Open-Source Operational Runoff Forecasting System in Russia. Water (Switzerland), 2019, 11, 1546.	2.7	11
11	Machine learning identifies ecological selectivity patterns across the end-Permian mass extinction. Paleobiology, 2022, 48, 357-371.	2.0	11
12	Runoff Predictions in Ungauged Arctic Basins Using Conceptual Models Forced by Reanalysis Data. Water Resources, 2018, 45, 1-7.	0.9	10
13	Simulating the formation of river runoff and snow cover in the northern West Siberia. Water Resources, 2015, 42, 460-467.	0.9	9
14	River runoff evaluation for ungauged watersheds by SWAP model. 2. Application of methods of physiographic similarity and spatial geostatistics. Water Resources, 2017, 44, 547-558.	0.9	9
15	Coupling physically based and data-driven models for assessing freshwater inflow into the Small Aral Sea. Proceedings of the International Association of Hydrological Sciences, 0, 379, 151-158.	1.0	9
16	Optimizing land surface parameters for simulating river runoff from 323 MOPEX-watersheds. Water Resources, 2015, 42, 186-197.	0.9	8
17	The influence of regional hydrometric data incorporation on the accuracy of gridded reconstruction of monthly runoff. Hydrological Sciences Journal, 2020, , 1-12.	2.6	8
18	OpenForecast v2: Development and Benchmarking of the First National-Scale Operational Runoff Forecasting System in Russia. Hydrology, 2021, 8, 3.	3.0	8

#	Article	IF	Citations
19	Use of machine learning techniques for modeling of snow depth. Led I Sneg, 2017, 57, 34-44.	0.2	8
20	Scenario prediction of changes in water balance components of the Olenek and Indigirka rivers in the context of possible climate change in the region of the Republic of Sakha (Yakutia). Water Resources, 2014, 41, 748-762.	0.9	7
21	Possible Climate Change Impact on River Runoff in the Different Regions of the Globe. Russian Meteorology and Hydrology, 2018, 43, 397-403.	1.3	7
22	Streamflow prediction in ungauged basins: benchmarking the efficiency of deep learning. E3S Web of Conferences, 2020, 163, 01001.	0.5	7
23	Climate change impact on streamflow in large-scale river basins: projections and their uncertainties sourced from GCMs and RCP scenarios. Proceedings of the International Association of Hydrological Sciences, 0, 379, 139-144.	1.0	7
24	Impact of possible climate changes on river runoff under different natural conditions. Proceedings of the International Association of Hydrological Sciences, 0, 379, 293-300.	1.0	7
25	Runoff evaluation for ungauged watersheds by SWAP model. 1. Application of artificial neural networks. Water Resources, 2017, 44, 169-179.	0.9	5
26	Modelling Water Balance Components of River Basins Located in Different Regions of the Globe. Water Resources, 2018, 45, 53-64.	0.9	4
27	Machine Learning Reveals a Significant Shift in Water Regime Types Due to Projected Climate Change. ISPRS International Journal of Geo-Information, 2021, 10, 660.	2.9	3
28	Geological factors governing ichthyofauna formation in rivers of Semlyachikskii volcanic region (Eastern Kamchatka). Water Resources, 2014, 41, 242-251.	0.9	1
29	Quantifying the Location Error of Precipitation Nowcasts. Advances in Meteorology, 2020, 2020, 1-12.	1.6	1
30	OpenForecast: An Assessment of the Operational Run in 2020â€“2021. Geosciences (Switzerland), 2022, 12, 67.	2.2	1