Alexander N Gelfan

List of Publications by Year
in descending order

34 papers	2,725 citations	430754 18 h-index	395590 33 g-index
41 all docs	41 docs citations	41 times ranked	3592 citing authors

#	Article	IF	Citations
1	Does a successful comprehensive evaluation increase confidence in a hydrological model intended for climate impact assessment?. Climatic Change, 2020, 163, 1165-1185.	1.7	24
2	Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	1.2	474
3	How the performance of hydrological models relates to credibility of projections under climate change. Hydrological Sciences Journal, 2018, 63, 696-720.	1.2	133
4	Validation of a Hydrological Model Intended for Impact Study: Problem Statement and Solution Example for Selenga River Basin. Water Resources, 2018, 45, 90-101.	0.3	21
5	Long-term ensemble forecast of snowmelt inflow into the Cheboksary Reservoir under two different weather scenarios. Hydrology and Earth System Sciences, 2018, 22, 2073-2089.	1.9	4
6	The Integrated System of Hydrological Forecasting in the Ussuri River Basin Based on the ECOMAG Model. Geosciences (Switzerland), 2018, 8, 5.	1.0	11
7	Assessing Amur Water Regime Variations in the XXI Century with Two Methods Used to Specify Climate Projections in River Runoff Formation Model. Water Resources, 2018, 45, 307-317.	0.3	11
8	Climate change impact on the water regime of two great Arctic rivers: modeling and uncertainty issues. Climatic Change, 2017, 141, 499-515.	1.7	77
9	Intercomparison of regional-scale hydrological models and climate change impacts projected for 12 large river basins worldwideâ€”a synthesis. Environmental Research Letters, 2017, 12, 105002.	2.2	109
10	Evaluation of an ensemble of regional hydrological models in 12 large-scale river basins worldwide. Climatic Change, 2017, 141, 381-397.	1.7	76
11	Hydrometeorology and Hydroclimate. Advances in Meteorology, 2016, 2016, 1-4.	0.6	7
12	Large-basin hydrological response to climate model outputs: uncertainty caused by internal atmospheric variability. Hydrology and Earth System Sciences, 2015, 19, 2737-2754.	1.9	28
13	Testing the robustness of the physically-based ECOMAG model with respect to changing conditions. Hydrological Sciences Journal, 2015, 60, 1266-1285.	1.2	27
14	Advancing catchment hydrology to deal with predictions under change. Hydrology and Earth System Sciences, 2014, 18, 649-671.	1.9	83
15	Modelling the hydrological impacts of rural land use change. Hydrology Research, 2014, 45, 737-754.	1.1	44
16	Disastrous flood of 2013 in the Amur basin: Genesis, recurrence assessment, simulation results. Water Resources, 2014, 41, 115-125.	0.3	29
17	A model for the hydrological cycle of a forested catchment and assessment of the changes caused in water balance by cuttings. Contemporary Problems of Ecology, 2013, 6, 770-778.	0.3	1
18	A decade of Predictions in Ungauged Basins (PUB)â€”a review. Hydrological Sciences Journal, 2013, 58, 1198-1255.	1.2	821

#	Article	IF	Citations
19	Assessment of extreme flood characteristics based on a dynamicâ€stochastic model of runoff generation and the probable maximum discharge. Journal of Flood Risk Management, 2011, 4, 115-127.	1.6	10
20	The joint use of deterministic and probabilistic approaches to the computation of maximum runoff characteristics. Russian Meteorology and Hydrology, 2010, 35, 411-420.	0.2	0
21	A spatial model of snowmelt-rainfall runoff formation of the mountain river (by the example of the) Tj ETQq1 1 0.784314 rgBT /Overlo	0.2	3
22	Extreme snowmelt floods: Frequency assessment and analysis of genesis on the basis of the dynamic-stochastic approach. Journal of Hydrology, 2010, 388, 85-99.	2.3	11
23	Use of satellite-derived data for characterization of snow cover and simulation of snowmelt runoff through a distributed physically based model of runoff generation. Hydrology and Earth System Sciences, 2010, 14, 339-350.	1.9	33
24	Longâ€term Hydrological Forecasting in Cold Regions: Retrospect, Current Status and Prospect. Geography Compass, 2009, 3, 1841-1864.	1.5	17
25	A study of effectiveness of the ensemble long-term forecasts of spring floods issued with physically based models of the river runoff formation. Russian Meteorology and Hydrology, 2009, 34, 100-109.	0.2	6
26	Evaluation of forest snow processes models (SnowMIP2). Journal of Geophysical Research, 2009, 114, .	3.3	290
27	Modeling Forest Cover Influences on Snow Accumulation, Sublimation, and Melt. Journal of Hydrometeorology, 2004, 5, 785-803.	0.7	155
28	Estimation of Extreme Flood Characteristics Using Physically Based Models of Runoff Generation and Stochastic Meteorological Inputs. Water International, 2002, 27, 77-86.	0.4	11
29	Statistical self-similarity of spatial variations of snow cover: verification of the hypothesis and application in the snowmelt runoff generation models. Hydrological Processes, 2001, 15, 3343-3355.	1.1	19
30	A distributed model of runoff generation in the permafrost regions. Journal of Hydrology, 2000, 240, 1-22.	2.3	56
31	Recursive System Identification for Real-Time Sewer Flow Forecasting. Journal of Hydrologic Engineering - ASCE, 1999, 4, 280-287.	0.8	4
32	The determination of the snowmelt rate and the meltwater outflow from a snowpack for modelling river runoff generation. Journal of Hydrology, 1996, 179, 23-36.	2.3	59
33	Dynamic-stochastic models of rainfall and snowmelt runoff formation. Hydrological Sciences Journal, 1991, 36, 153-169.	1.2	7
34	Panta Rhei 2013â€“2015: global perspectives on hydrology, society and change. Hydrological Sciences Journal, 0, , 1-18.	1.2	53