

# Sergiy Vorogushyn

## List of Publications by Citations

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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.

72  
papers

2,502  
citations

26  
h-index

49  
g-index

102  
ext. papers

3,018  
ext. citations

5.1  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
72	Substantial glacier mass loss in the Tien Shan over the past 50 years. <i>Nature Geoscience</i> , <b>2015</b> , 8, 716-722	8.3	260
71	What do we know about past changes in the water cycle of Central Asian headwaters? A review. <i>Global and Planetary Change</i> , <b>2013</b> , 110, 4-25	4.2	166
70	HESS Opinions &quot;More efforts and scientific rigour are needed to attribute trends in flood time series&quot;. <i>Hydrology and Earth System Sciences</i> , <b>2012</b> , 16, 1379-1387	5.5	141
69	Adaptation to flood risk: Results of international paired flood event studies. <i>Earth's Future</i> , <b>2017</b> , 5, 953-965	9.5	111
68	Attribution of streamflow trends in snow and glacier melt-dominated catchments of the Tarim River, Central Asia. <i>Water Resources Research</i> , <b>2015</b> , 51, 4727-4750	5.4	110
67	A new methodology for flood hazard assessment considering dike breaches. <i>Water Resources Research</i> , <b>2010</b> , 46,	5.4	97
66	Spatially coherent flood risk assessment based on long-term continuous simulation with a coupled model chain. <i>Journal of Hydrology</i> , <b>2015</b> , 524, 182-193	6	95
65	Probabilistic flood hazard mapping: effects of uncertain boundary conditions. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 3127-3140	5.5	73
64	Analysis of a detention basin impact on dike failure probabilities and flood risk for a channel-dike-floodplain system along the river Elbe, Germany. <i>Journal of Hydrology</i> , <b>2012</b> , 436-437, 120-131	6	72
63	Drivers of flood risk change in residential areas. <i>Natural Hazards and Earth System Sciences</i> , <b>2012</b> , 12, 1641-1657	3.9	70
62	Development of dike fragility curves for piping and micro-instability breach mechanisms. <i>Natural Hazards and Earth System Sciences</i> , <b>2009</b> , 9, 1383-1401	3.9	69
61	Changes in glacierisation, climate and runoff in the second half of the 20th century in the Naryn basin, Central Asia. <i>Global and Planetary Change</i> , <b>2013</b> , 110, 51-61	4.2	67
60	Identification of coherent flood regions across Europe by using the longest streamflow records. <i>Journal of Hydrology</i> , <b>2015</b> , 528, 341-360	6	65
59	Continuous, large-scale simulation model for flood risk assessments: proof-of-concept. <i>Journal of Flood Risk Management</i> , <b>2016</b> , 9, 3-21	3.1	62
58	Evaluation of areal precipitation estimates based on downscaled reanalysis and station data by hydrological modelling. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 2415-2434	5.5	55
57	The value of satellite-derived snow cover images for calibrating a hydrological model in snow-dominated catchments in Central Asia. <i>Water Resources Research</i> , <b>2014</b> , 50, 2002-2021	5.4	52
56	Charting unknown waters On the role of surprise in flood risk assessment and management. <i>Water Resources Research</i> , <b>2015</b> , 51, 6399-6416	5.4	52

55	Hess Opinions: An interdisciplinary research agenda to explore the unintended consequences of structural flood protection. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 5629-5637	5.5	50
54	Hydraulic model evaluation for large-scale flood risk assessments. <i>Hydrological Processes</i> , <b>2013</b> , 27, 1331-1340	5.5	47
53	Causative classification of river flood events. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2019</b> , 6, e1353	5.7	45
52	Projections for headwater catchments of the Tarim River reveal glacier retreat and decreasing surface water availability but uncertainties are large. <i>Environmental Research Letters</i> , <b>2016</b> , 11, 054024	6.2	44
51	Analysis of changes in climate and river discharge with focus on seasonal runoff predictability in the Aksu River Basin. <i>Environmental Earth Sciences</i> , <b>2015</b> , 73, 501-516	2.9	41
50	Evolutionary leap in large-scale flood risk assessment needed. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2018</b> , 5, e1266	5.7	38
49	Flood trends along the Rhine: the role of river training. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 3871-3884	5.5	38
48	Joint Trends in Flood Magnitudes and Spatial Extents Across Europe.. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087464	4.9	36
47	Temporal clustering of floods in Germany: Do flood-rich and flood-poor periods exist?. <i>Journal of Hydrology</i> , <b>2016</b> , 541, 824-838	6	32
46	The benefits of gravimeter observations for modelling water storage changes at the field scale. <i>Hydrology and Earth System Sciences</i> , <b>2010</b> , 14, 1715-1730	5.5	26
45	Causes, impacts and patterns of disastrous river floods. <i>Nature Reviews Earth &amp; Environment</i> , <b>2021</b> , 2, 592-609	30.2	26
44	Snow-cover reconstruction methodology for mountainous regions based on historic in situ observations and recent remote sensing data. <i>Cryosphere</i> , <b>2015</b> , 9, 451-463	5.5	24
43	Evaluation of remotely sensed snow cover product in Central Asia <b>2013</b> , 44, 506-522		24
42	The Value of Empirical Data for Estimating the Parameters of a Sociohydrological Flood Risk Model. <i>Water Resources Research</i> , <b>2019</b> , 55, 1312-1336	5.4	22
41	Spatial coherence of flood-rich and flood-poor periods across Germany. <i>Journal of Hydrology</i> , <b>2018</b> , 559, 813-826	6	22
40	Statistical forecast of seasonal discharge in Central Asia using observational records: development of a generic linear modelling tool for operational water resource management. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 2225-2254	5.5	21
39	Stochastic generation of spatially coherent river discharge peaks for continental event-based flood risk assessment. <i>Natural Hazards and Earth System Sciences</i> , <b>2019</b> , 19, 1041-1053	3.9	20
38	MODSNOW-Tool: an operational tool for daily snow cover monitoring using MODIS data. <i>Environmental Earth Sciences</i> , <b>2016</b> , 75, 1	2.9	20

37	A statistically based seasonal precipitation forecast model with automatic predictor selection and its application to central and south Asia. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 4605-4623	5.5	20
36	A continuous modelling approach for design flood estimation on sub-daily time scale. <i>Hydrological Sciences Journal</i> , <b>2019</b> , 64, 539-554	3.5	19
35	Re-establishing glacier monitoring in Kyrgyzstan and Uzbekistan, Central Asia. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , <b>2017</b> , 6, 397-418	1.5	19
34	How do changes along the risk chain affect flood risk?. <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 3089-3108	3.9	19
33	Variability of the Cold Season Climate in Central Asia. Part I: Weather Types and Their Tropical and Extratropical Drivers. <i>Journal of Climate</i> , <b>2018</b> , 31, 7185-7207	4.4	19
32	CEDIM Risk Explorer 3 map server solution in the project "Risk Map Germany". <i>Natural Hazards and Earth System Sciences</i> , <b>2006</b> , 6, 711-720	3.9	17
31	The impact of the uncertainty of dike breach development time on flood hazard. <i>Physics and Chemistry of the Earth</i> , <b>2011</b> , 36, 319-323	3	16
30	Constraining hydrological model parameters using water isotopic compositions in a glacierized basin, Central Asia. <i>Journal of Hydrology</i> , <b>2019</b> , 571, 332-348	6	15
29	The role of spatial dependence for large-scale flood risk estimation. <i>Natural Hazards and Earth System Sciences</i> , <b>2020</b> , 20, 967-979	3.9	15
28	The Value of Hydrograph Partitioning Curves for Calibrating Hydrological Models in Glacierized Basins. <i>Water Resources Research</i> , <b>2018</b> , 54, 2336-2361	5.4	13
27	Can local climate variability be explained by weather patterns? A multi-station evaluation for the Rhine basin. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 4283-4306	5.5	13
26	Variability of the Cold Season Climate in Central Asia. Part II: Hydroclimatic Predictability. <i>Journal of Climate</i> , <b>2019</b> , 32, 6015-6033	4.4	10
25	Do small and large floods have the same drivers of change? A regional attribution analysis in Europe. <i>Hydrology and Earth System Sciences</i> , <b>2021</b> , 25, 1347-1364	5.5	10
24	Do Changing Weather Types Explain Observed Climatic Trends in the Rhine Basin? An Analysis of Within- and Between-Type Changes. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 1562-1584	4.4	8
23	Evaluation of areal precipitation estimates based on downscaled reanalysis and station data by hydrological modelling		7
22	The role of flood wave superposition in the severity of large floods. <i>Hydrology and Earth System Sciences</i> , <b>2020</b> , 24, 1633-1648	5.5	7
21	Levee Breaching: A New Extension to the LISFLOOD-FP Model. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 942	3	6
20	Impacts of Climate Change in Central Asia <b>2018</b> , 195-203		6

19	Comparing Bayesian and traditional end-member mixing approaches for hydrograph separation in a glacierized basin. <i>Hydrology and Earth System Sciences</i> , <b>2020</b> , 24, 3289-3309	5.5	6
18	Multi-hazard fragility analysis for fluvial dikes in earthquake- and flood-prone areas. <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 2345-2354	3.9	6
17	Biases in national and continental flood risk assessments by ignoring spatial dependence. <i>Scientific Reports</i> , <b>2020</b> , 10, 19387	4.9	4
16	Climate informed seasonal forecast of water availability in Central Asia: State-of-the-art and decision making context. <i>Water Security</i> , <b>2020</b> , 10, 100061	3.8	4
15	Event generation for probabilistic flood risk modelling: multi-site peak flow dependence model vs. weather-generator-based approach. <i>Natural Hazards and Earth System Sciences</i> , <b>2020</b> , 20, 1689-1703	3.9	4
14	Large-scale stochastic flood hazard analysis applied to the Po River. <i>Natural Hazards</i> , <b>2020</b> , 104, 2027-2049	3.9	4
13	Comparative analysis of scalar upper tail indicators. <i>Hydrological Sciences Journal</i> , <b>2020</b> , 65, 1625-1639	3.5	3
12	Harmonizing and comparing single-type natural hazard risk estimations. <i>Annals of Geophysics</i> , <b>2016</b> , 59,	1.1	3
11	Re-establishing glacier monitoring in Kyrgyzstan and Uzbekistan, Central Asia <b>2017</b> ,		2
10	Statistical forecast of seasonal discharge in Central Asia for water resources management: development of a generic linear modelling tool for operational use		2
9	Hess Opinions: An interdisciplinary research agenda to explore the unintended consequences of structural flood protection		2
8	Effects of rating-curve uncertainty on probabilistic flood mapping		2
7	Comprehensive evaluation of an improved large-scale multi-site weather generator for Germany. <i>International Journal of Climatology</i> , <b>2021</b> , 41, 4933-4956	3.5	2
6	Large-scale flood risk assessment using a coupled model chain. <i>E3S Web of Conferences</i> , <b>2016</b> , 7, 11005	0.5	2
5	What drives flood trends along the Rhine River: climate or river training?		1
4	Process-Based Flood Risk Assessment for Germany. <i>Earth's Future</i> , <b>2021</b> , 9, e2021EF002259	7.9	1
3	Comparative evaluation of two types of stochastic weather generators for synthetic precipitation in the Rhine basin. <i>Journal of Hydrology</i> , <b>2021</b> , 601, 126544	6	1
2	From Precipitation to Damage. <i>Geophysical Monograph Series</i> , <b>2018</b> , 169-183	1.1	0

- 1 Estimating parameter values of a socio-hydrological flood model. *Proceedings of the International Association of Hydrological Sciences*, 379, 193-198