

# Sergiy Vorogushyn

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

3,602  
citations

136885

32  
h-index

138417

58  
g-index

102  
all docs

102  
docs citations

102  
times ranked

3545  
citing authors

#	ARTICLE	IF	CITATIONS
1	Substantial glacier mass loss in the Tien Shan over the past 50 years. <i>Nature Geoscience</i> , 2015, 8, 716-722.	5.4	332
2	What do we know about past changes in the water cycle of Central Asian headwaters? A review. <i>Global and Planetary Change</i> , 2013, 110, 4-25.	1.6	206
3	Causes, impacts and patterns of disastrous river floods. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 592-609.	12.2	175
4	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> , 2012, 16, 1379-1387.	1.9	172
5	Adaptation to flood risk: Results of international paired flood event studies. <i>Earth's Future</i> , 2017, 5, 953-965.	2.4	156
6	Attribution of streamflow trends in snow and glacier melt-dominated catchments of the Tâ€¦river, Central Asia. <i>Water Resources Research</i> , 2015, 51, 4727-4750.	1.7	146
7	A new methodology for flood hazard assessment considering dike breaches. <i>Water Resources Research</i> , 2010, 46, .	1.7	117
8	Spatially coherent flood risk assessment based on long-term continuous simulation with a coupled model chain. <i>Journal of Hydrology</i> , 2015, 524, 182-193.	2.3	115
9	Probabilistic flood hazard mapping: effects of uncertain boundary conditions. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3127-3140.	1.9	100
10	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> , 2012, 436-437, 120-131.	2.3	86
11	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> , 2013, 110, 51-61.	1.6	86
12	Causative classification of river flood events. <i>Wiley Interdisciplinary Reviews: Water</i> , 2019, 6, e1353.	2.8	86
13	Charting unknown watersâ€”On the role of surprise in flood risk assessment and management. <i>Water Resources Research</i> , 2015, 51, 6399-6416.	1.7	83
14	Continuous, large-scale simulation model for flood risk assessments: proofâ€¦ofâ€¦concept. <i>Journal of Flood Risk Management</i> , 2016, 9, 3-21.	1.6	82
15	Development of dike fragility curves for piping and micro-instability breach mechanisms. <i>Natural Hazards and Earth System Sciences</i> , 2009, 9, 1383-1401.	1.5	81
16	Drivers of flood risk change in residential areas. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 1641-1657.	1.5	81
17	Identification of coherent flood regions across Europe by using the longest streamflow records. <i>Journal of Hydrology</i> , 2015, 528, 341-360.	2.3	79
18	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> , 2014, 50, 2002-2021.	1.7	77

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19	Joint Trends in Flood Magnitudes and Spatial Extents Across Europe. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087464.	1.5	75
20	Evaluation of areal precipitation estimates based on downscaled reanalysis and station data by hydrological modelling. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 2415-2434.	1.9	68
21	Hess Opinions: An interdisciplinary research agenda to explore the unintended consequences of structural flood protection. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5629-5637.	1.9	67
22	Hydraulic model evaluation for large-scale flood risk assessments. <i>Hydrological Processes</i> , 2013, 27, 1331-1340.	1.1	61
23	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> , 2016, 11, 054024.	2.2	51
24	Evolutionary leap in large-scale flood risk assessment needed. <i>Wiley Interdisciplinary Reviews: Water</i> , 2018, 5, e1266.	2.8	50
25	Flood trends along the Rhine: the role of river training. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3871-3884.	1.9	48
26	Analysis of changes in climate and river discharge with focus on seasonal runoff predictability in the Aksu River Basin. <i>Environmental Earth Sciences</i> , 2015, 73, 501-516.	1.3	47
27	The Value of Empirical Data for Estimating the Parameters of a Sociohydrological Flood Risk Model. <i>Water Resources Research</i> , 2019, 55, 1312-1336.	1.7	43
28	Temporal clustering of floods in Germany: Do flood-rich and flood-poor periods exist?. <i>Journal of Hydrology</i> , 2016, 541, 824-838.	2.3	41
29	Do small and large floods have the same drivers of change? A regional attribution analysis in Europe. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1347-1364.	1.9	39
30	A continuous modelling approach for design flood estimation on sub-daily time scale. <i>Hydrological Sciences Journal</i> , 2019, 64, 539-554.	1.2	38
31	The benefits of gravimeter observations for modelling water storage changes at the field scale. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 1715-1730.	1.9	35
32	Variability of the Cold Season Climate in Central Asia. Part I: Weather Types and Their Tropical and Extratropical Drivers. <i>Journal of Climate</i> , 2018, 31, 7185-7207.	1.2	33
33	Snow-cover reconstruction methodology for mountainous regions based on historic in situ observations and recent remote sensing data. <i>Cryosphere</i> , 2015, 9, 451-463.	1.5	32
34	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> , 2018, 22, 2225-2254.	1.9	32
35	Constraining hydrological model parameters using water isotopic compositions in a glacierized basin, Central Asia. <i>Journal of Hydrology</i> , 2019, 571, 332-348.	2.3	31
36	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> , 2016, 20, 4605-4623.	1.9	29

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37	Re-establishing glacier monitoring in Kyrgyzstan and Uzbekistan, Central Asia. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 397-418.	0.6	29
38	Stochastic generation of spatially coherent river discharge peaks for continental event-based flood risk assessment. Natural Hazards and Earth System Sciences, 2019, 19, 1041-1053.	1.5	28
39	Evaluation of remotely sensed snow cover product in Central Asia. Hydrology Research, 2013, 44, 506-522.	1.1	27
40	Spatial coherence of flood-rich and flood-poor periods across Germany. Journal of Hydrology, 2018, 559, 813-826.	2.3	27
41	The impact of the uncertainty of dike breach development time on flood hazard. Physics and Chemistry of the Earth, 2011, 36, 319-323.	1.2	25
42	How do changes along the risk chain affect flood risk?. Natural Hazards and Earth System Sciences, 2018, 18, 3089-3108.	1.5	25
43	The role of spatial dependence for large-scale flood risk estimation. Natural Hazards and Earth System Sciences, 2020, 20, 967-979.	1.5	25
44	Understanding Heavy Tails of Flood Peak Distributions. Water Resources Research, 2022, 58, .	1.7	23
45	MODSNOW-Tool: an operational tool for daily snow cover monitoring using MODIS data. Environmental Earth Sciences, 2016, 75, 1.	1.3	22
46	CEDIM Risk Explorer – a map server solution in the project “Risk Map Germany”. Natural Hazards and Earth System Sciences, 2006, 6, 711-720.	1.5	20
47	The Value of Hydrograph Partitioning Curves for Calibrating Hydrological Models in Glacierized Basins. Water Resources Research, 2018, 54, 2336-2361.	1.7	19
48	Levee Breaching: A New Extension to the LISFLOOD-FP Model. Water (Switzerland), 2020, 12, 942.	1.2	19
49	Comparing Bayesian and traditional end-member mixing approaches for hydrograph separation in a glacierized basin. Hydrology and Earth System Sciences, 2020, 24, 3289-3309.	1.9	18
50	Can local climate variability be explained by weather patterns? A multi-station evaluation for the Rhine basin. Hydrology and Earth System Sciences, 2016, 20, 4283-4306.	1.9	17
51	The role of flood wave superposition in the severity of large floods. Hydrology and Earth System Sciences, 2020, 24, 1633-1648.	1.9	17
52	Comparative analysis of scalar upper tail indicators. Hydrological Sciences Journal, 2020, 65, 1625-1639.	1.2	14
53	Variability of the Cold Season Climate in Central Asia. Part II: Hydroclimatic Predictability. Journal of Climate, 2019, 32, 6015-6033.	1.2	13
54	Biases in national and continental flood risk assessments by ignoring spatial dependence. Scientific Reports, 2020, 10, 19387.	1.6	13

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55	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> , 2018, 123, 1562-1584.	1.2	11
56	Climate informed seasonal forecast of water availability in Central Asia: State-of-the-art and decision making context. <i>Water Security</i> , 2020, 10, 100061.	1.2	11
57	Process-Based Flood Risk Assessment for Germany. <i>Earth's Future</i> , 2021, 9, e2021EF002259.	2.4	11
58	Impacts of Climate Change in Central Asia. , 2018, , 195-203.		9
59	Multi-hazard fragility analysis for fluvial dikes in earthquake- and flood-prone areas. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 2345-2354.	1.5	9
60	Comprehensive evaluation of an improved large-scale multi-site weather generator for Germany. <i>International Journal of Climatology</i> , 2021, 41, 4933-4956.	1.5	8
61	Comparative evaluation of two types of stochastic weather generators for synthetic precipitation in the Rhine basin. <i>Journal of Hydrology</i> , 2021, 601, 126544.	2.3	7
62	Large-scale stochastic flood hazard analysis applied to the Po River. <i>Natural Hazards</i> , 2020, 104, 2027-2049.	1.6	6
63	Event generation for probabilistic flood risk modelling: multi-site peak flow dependence model vs. a weather-generator-based approach. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 1689-1703.	1.5	5
64	Harmonizing and comparing single-type natural hazard risk estimations. <i>Annals of Geophysics</i> , 2016, 59, .	0.5	5
65	Event and Catchment Controls of Heavy Tail Behavior of Floods. <i>Water Resources Research</i> , 2022, 58, .	1.7	5
66	Reconstructed Centennial Mass Balance Change for Golubin Glacier, Northern Tien Shan. <i>Atmosphere</i> , 2022, 13, 954.	1.0	4
67	Large-scale flood risk assessment using a coupled model chain. <i>E3S Web of Conferences</i> , 2016, 7, 11005.	0.2	2
68	On the role of floodplain storage and hydrodynamic interactions in flood risk estimation. <i>Hydrological Sciences Journal</i> , 2022, 67, 508-534.	1.2	2
69	Estimating parameter values of a socio-hydrological flood model. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 379, 193-198.	1.0	0