

Daniel Viviroli

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

4,862
citations

257450

24
h-index

345221

36
g-index

54
all docs

54
docs citations

54
times ranked

5462
citing authors

#	ARTICLE	IF	CITATIONS
1	Importance and vulnerability of the world's water towers. <i>Nature</i> , 2020, 577, 364-369.	27.8	885
2	Mountains of the world, water towers for humanity: Typology, mapping, and global significance. <i>Water Resources Research</i> , 2007, 43, .	4.2	839
3	Climate change and mountain water resources: overview and recommendations for research, management and policy. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 471-504.	4.9	476
4	Global monthly water stress: 2. Water demand and severity of water stress. <i>Water Resources Research</i> , 2011, 47, .	4.2	342
5	The hydrological significance of mountains: from regional to global scale. <i>Hydrology and Earth System Sciences</i> , 2004, 8, 1017-1030.	4.9	256
6	An introduction to the hydrological modelling system PREVAH and its pre- and post-processing-tools. <i>Environmental Modelling and Software</i> , 2009, 24, 1209-1222.	4.5	218
7	Assessing the Hydrological Significance of the World's Mountains. <i>Mountain Research and Development</i> , 2003, 23, 32-40.	1.0	188
8	The potential for snow to supply human water demand in the present and future. <i>Environmental Research Letters</i> , 2015, 10, 114016.	5.2	178
9	Increasing dependence of lowland populations on mountain water resources. <i>Nature Sustainability</i> , 2020, 3, 917-928.	23.7	156
10	Over the hills and further away from coast: global geospatial patterns of human and environment over the 20th-21st centuries. <i>Environmental Research Letters</i> , 2016, 11, 034010.	5.2	143
11	Continuous simulation for flood estimation in ungauged mesoscale catchments of Switzerland – Part II: Parameter regionalisation and flood estimation results. <i>Journal of Hydrology</i> , 2009, 377, 208-225.	5.4	119
12	Mountains of the World: Vulnerable Water Towers for the 21st Century. <i>Ambio</i> , 2004, 33, 29.	5.5	112
13	Flood-type classification in mountainous catchments using crisp and fuzzy decision trees. <i>Water Resources Research</i> , 2015, 51, 7959-7976.	4.2	88
14	Impacts of environmental change on water resources in the Mt. Kenya region. <i>Journal of Hydrology</i> , 2007, 343, 266-278.	5.4	85
15	Seasonality and magnitude of floods in Switzerland under future climate change. <i>Hydrological Processes</i> , 2014, 28, 2567-2578.	2.6	80
16	Continuous simulation for flood estimation in ungauged mesoscale catchments of Switzerland – Part I: Modelling framework and calibration results. <i>Journal of Hydrology</i> , 2009, 377, 191-207.	5.4	76
17	Flood type specific construction of synthetic design hydrographs. <i>Water Resources Research</i> , 2017, 53, 1390-1406.	4.2	65
18	Water resources in mountain regions: a methodological approach to assess the water balance in a highland-lowland-system. <i>Hydrological Processes</i> , 2007, 21, 578-585.	2.6	60

#	ARTICLE	IF	CITATIONS
19	Marked isotopic variability within and between the Amazon River and marine dissolved black carbon pools. <i>Nature Communications</i> , 2019, 10, 4018.	12.8	47
20	Climate change risks pushing one-third of global food production outside the safe climatic space. <i>One Earth</i> , 2021, 4, 720-729.	6.8	45
21	Prediction of hydrographs and flow-duration curves in almost ungauged catchments: Which runoff measurements are most informative for model calibration?. <i>Journal of Hydrology</i> , 2017, 554, 613-622.	5.4	37
22	Relating climate change signals and physiographic catchment properties to clustered hydrological response types. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2267-2283.	4.9	34
23	Synthetic design hydrographs for ungauged catchments: a comparison of regionalization methods. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1993-2023.	4.0	30
24	Effective precipitation duration for runoff peaks based on catchment modelling. <i>Journal of Hydrology</i> , 2018, 556, 510-522.	5.4	30
25	How does climate change affect mesoscale catchments in Switzerland? â€” a framework for a comprehensive assessment. <i>Advances in Geosciences</i> , 0, 27, 111-119.	12.0	29
26	â€œWater Towersâ€”A Global View of the Hydrological Importance of Mountains. , 2008, , 15-20.		27
27	Hydrological model calibration with uncertain discharge data. <i>Hydrological Sciences Journal</i> , 2022, 67, 2441-2456.	2.6	26
28	The importance of glacier and forest change in hydrological climate-impact studies. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 619-635.	4.9	22
29	Influence of internal variability on population exposure to hydroclimatic changes. <i>Environmental Research Letters</i> , 2017, 12, 044007.	5.2	22
30	Can a regionalized model parameterisation be improved with a limited number of runoff measurements?. <i>Journal of Hydrology</i> , 2015, 529, 49-61.	5.4	21
31	Identification of Flood Reactivity Regions via the Functional Clustering of Hydrographs. <i>Water Resources Research</i> , 2018, 54, 1852-1867.	4.2	19
32	Value of a Limited Number of Discharge Observations for Improving Regionalization: A Largeâ€”Sample Study Across the United States. <i>Water Resources Research</i> , 2019, 55, 363-377.	4.2	18
33	Mountain Observatories: Status and Prospects for Enhancing and Connecting a Global Community. <i>Mountain Research and Development</i> , 2021, 41, .	1.0	18
34	The Significance of Mountains as Sources of the World's Fresh Water. <i>Gaia</i> , 2002, 11, 182-186.	0.7	9
35	Comparing model complexity for glacio-hydrological simulation in the data-scarce Peruvian Andes. <i>Journal of Hydrology: Regional Studies</i> , 2021, 37, 100932.	2.4	6
36	On the risk of obtaining misleading results by pooling streamflow data for trend analyses. <i>Water Resources Research</i> , 2012, 48, .	4.2	4

#	ARTICLE	IF	CITATIONS
37	Snow and ice in the hydrosphere. , 2021, , 93-135.		3
38	Comments: A New Typology for Mountains and Other Relief Classes: An Application to Global Continental Water Resources and Population Distribution. Mountain Research and Development, 2001, 21, 307-307.	1.0	2