

Alberto Viglione

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

10,026
citations

41344

49
h-index

43889

91
g-index

152
all docs

152
docs citations

152
times ranked

7704
citing authors

#	ARTICLE	IF	CITATIONS
1	Changing climate both increases and decreases European river floods. <i>Nature</i> , 2019, 573, 108-111.	27.8	639
2	A compilation of data on European flash floods. <i>Journal of Hydrology</i> , 2009, 367, 70-78.	5.4	623
3	Changing climate shifts timing of European floods. <i>Science</i> , 2017, 357, 588-590.	12.6	584
4	“Panta Rhei” Everything Flows: Change in hydrology and society” The IAHS Scientific Decade 2013-2022. <i>Hydrological Sciences Journal</i> , 2013, 58, 1256-1275.	2.6	569
5	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	2.6	474
6	Runoff Prediction in Ungauged Basins. , 2013, , .		432
7	Understanding flood regime changes in Europe: a state-of-the-art assessment. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2735-2772.	4.9	423
8	Socio-hydrology: conceptualising human-flood interactions. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3295-3303.	4.9	403
9	Debates” Perspectives on socio-hydrology: Capturing feedbacks between physical and social processes. <i>Water Resources Research</i> , 2015, 51, 4770-4781.	4.2	337
10	Land use change impacts on floods at the catchment scale: Challenges and opportunities for future research. <i>Water Resources Research</i> , 2017, 53, 5209-5219.	4.2	269
11	Floods and climate: emerging perspectives for flood risk assessment and management. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 1921-1942.	3.6	239
12	Sociohydrology: Scientific Challenges in Addressing the Sustainable Development Goals. <i>Water Resources Research</i> , 2019, 55, 6327-6355.	4.2	226
13	Insights from socio-hydrology modelling on dealing with flood risk – Roles of collective memory, risk-taking attitude and trust. <i>Journal of Hydrology</i> , 2014, 518, 71-82.	5.4	223
14	Comparative assessment of predictions in ungauged basins – Part 1: Runoff-hydrograph studies. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1783-1795.	4.9	186
15	Flood timescales: Understanding the interplay of climate and catchment processes through comparative hydrology. <i>Water Resources Research</i> , 2012, 48, .	4.2	156
16	Current European flood-rich period exceptional compared with past 500 years. <i>Nature</i> , 2020, 583, 560-566.	27.8	154
17	Flood frequency hydrology: 3. A Bayesian analysis. <i>Water Resources Research</i> , 2013, 49, 675-692.	4.2	137
18	Bayesian MCMC approach to regional flood frequency analyses involving extraordinary flood events at ungauged sites. <i>Journal of Hydrology</i> , 2010, 394, 101-117.	5.4	129

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19	A comparison of homogeneity tests for regional frequency analysis. <i>Water Resources Research</i> , 2007, 43, .	4.2	127
20	Increasing river floods: fiction or reality?. <i>Wiley Interdisciplinary Reviews: Water</i> , 2015, 2, 329-344.	6.5	123
21	Fragmented patterns of flood change across the United States. <i>Geophysical Research Letters</i> , 2016, 43, 10232-10239.	4.0	123
22	Drought and flood in the Anthropocene: feedback mechanisms in reservoir operation. <i>Earth System Dynamics</i> , 2017, 8, 225-233.	7.1	122
23	Exploring the physical controls of regional patterns of flow duration curves â€œ Part 1: Insights from statistical analyses. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4435-4446.	4.9	102
24	Accelerating advances in continental domain hydrologic modeling. <i>Water Resources Research</i> , 2015, 51, 10078-10091.	4.2	102
25	Comparative assessment of predictions in ungauged basins â€œ Part 2: Flood and low flow studies. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 2637-2652.	4.9	95
26	Comparative assessment of predictions in ungauged basins â€œ Part 3: Runoff signatures in Austria. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 2263-2279.	4.9	93
27	The influence of non-stationarity in extreme hydrological events on flood frequency estimation. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 426-437.	2.0	88
28	Exploring the physical controls of regional patterns of flow duration curves â€œ Part 4: A synthesis of empirical analysis, process modeling and catchment classification. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4483-4498.	4.9	87
29	On the role of storm duration in the mapping of rainfall to flood return periods. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 205-216.	4.9	86
30	Causative classification of river flood events. <i>Wiley Interdisciplinary Reviews: Water</i> , 2019, 6, e1353.	6.5	86
31	Runoff models and flood frequency statistics for design flood estimation in Austria â€œ Do they tell a consistent story?. <i>Journal of Hydrology</i> , 2012, 456-457, 30-43.	5.4	84
32	Spatial moments of catchment rainfall: rainfall spatial organisation, basin morphology, and flood response. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 3767-3783.	4.9	83
33	Charting unknown watersâ€œ On the role of surprise in flood risk assessment and management. <i>Water Resources Research</i> , 2015, 51, 6399-6416.	4.2	83
34	Quantifying space-time dynamics of flood event types. <i>Journal of Hydrology</i> , 2010, 394, 213-229.	5.4	82
35	On the role of the runoff coefficient in the mapping of rainfall to flood return periods. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 577-593.	4.9	76
36	Attribution of regional flood changes based on scaling fingerprints. <i>Water Resources Research</i> , 2016, 52, 5322-5340.	4.2	75

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37	An approach to estimate nonparametric flow duration curves in ungauged basins. <i>Water Resources Research</i> , 2009, 45, .	4.2	73
38	Conceptualizing socio-hydrological drought processes: The case of the Maya collapse. <i>Water Resources Research</i> , 2016, 52, 6222-6242.	4.2	73
39	Socio-hydrological modelling of flood-risk dynamics: comparing the resilience of green and technological systems. <i>Hydrological Sciences Journal</i> , 2017, 62, 880-891.	2.6	72
40	Detection of trends in magnitude and frequency of flood peaks across Europe. <i>Hydrological Sciences Journal</i> , 2018, 63, 493-512.	2.6	68
41	Generalised synthesis of space-time variability in flood response: An analytical framework. <i>Journal of Hydrology</i> , 2010, 394, 198-212.	5.4	67
42	Dependence between flood peaks and volumes: a case study on climate and hydrological controls. <i>Hydrological Sciences Journal</i> , 2015, 60, 968-984.	2.6	67
43	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.	4.9	67
44	Step changes in the flood frequency curve: Process controls. <i>Water Resources Research</i> , 2012, 48, .	4.2	63
45	Virtual laboratories: new opportunities for collaborative water science. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2101-2117.	4.9	63
46	Barriers to the exchange of hydrometeorological data in Europe: Results from a survey and implications for data policy. <i>Journal of Hydrology</i> , 2010, 394, 63-77.	5.4	62
47	Regional parent flood frequency distributions in Europe – Part 1: Is the GEV model suitable as a pan-European parent?. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4381-4389.	4.9	59
48	Low Flows Regionalization in North-Western Italy. <i>Water Resources Management</i> , 2010, 24, 4049-4074.	3.9	58
49	Adaptation of water resources systems to changing society and environment: a statement by the International Association of Hydrological Sciences. <i>Hydrological Sciences Journal</i> , 2016, 61, 2803-2817.	2.6	57
50	Flood trends in Europe: are changes in small and big floods different?. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 1805-1822.	4.9	54
51	Panta Rhei 2013-2015: global perspectives on hydrology, society and change. <i>Hydrological Sciences Journal</i> , 0, , 1-18.	2.6	53
52	Evolutionary leap in large-scale flood risk assessment needed. <i>Wiley Interdisciplinary Reviews: Water</i> , 2018, 5, e1266.	6.5	50
53	Modeling the interaction between flooding events and economic growth. <i>Ecological Economics</i> , 2016, 129, 193-209.	5.7	47
54	Reservoir Effects on Flood Peak Discharge at the Catchment Scale. <i>Water Resources Research</i> , 2018, 54, 9623-9636.	4.2	46

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55	rtop: An R package for interpolation of data with a variable spatial support, with an example from river networks. <i>Computers and Geosciences</i> , 2014, 67, 180-190.	4.2	43
56	The Value of Empirical Data for Estimating the Parameters of a Sociohydrological Flood Risk Model. <i>Water Resources Research</i> , 2019, 55, 1312-1336.	4.2	43
57	Quantifying effects of catchments storage thresholds on step changes in the flood frequency curve. <i>Water Resources Research</i> , 2013, 49, 6946-6958.	4.2	41
58	Flood forecast errors and ensemble spread—A case study. <i>Water Resources Research</i> , 2012, 48, .	4.2	39
59	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.	4.9	39
60	Estimating the flood frequency distribution at seasonal and annual time scales. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4651-4660.	4.9	37
61	A dynamic framework for flood risk. <i>Water Security</i> , 2017, 1, 3-11.	2.5	37
62	A Process-Based Framework to Characterize and Classify Runoff Events: The Event Typology of Germany. <i>Water Resources Research</i> , 2020, 56, e2019WR026951.	4.2	37
63	Uncertainty contributions to low-flow projections in Austria. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2085-2101.	4.9	34
64	A European Flood Database: facilitating comprehensive flood research beyond administrative boundaries. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 370, 89-95.	1.0	32
65	Emerging Approaches to Hydrological Risk Management in a Changing World. , 2013, , 3-10.		30
66	Statistical Hydrology. , 2011, , 479-517.		29
67	The role of station density for predicting daily runoff by top-kriging interpolation in Austria. <i>Journal of Hydrology and Hydromechanics</i> , 2015, 63, 228-234.	2.0	27
68	Informed attribution of flood changes to decadal variation of atmospheric, catchment and river drivers in Upper Austria. <i>Journal of Hydrology</i> , 2019, 577, 123919.	5.4	26
69	Learning from the Ancient Maya: Exploring the Impact of Drought on Population Dynamics. <i>Ecological Economics</i> , 2019, 157, 1-16.	5.7	24
70	Extreme rainstorms: Comparing regional envelope curves to stochastically generated events. <i>Water Resources Research</i> , 2012, 48, .	4.2	23
71	Understanding Heavy Tails of Flood Peak Distributions. <i>Water Resources Research</i> , 2022, 58, .	4.2	23
72	Inclusion of historical information in flood frequency analysis using a Bayesian MCMC technique: a case study for the power dam Orlick, Czech Republic. <i>Contributions To Geophysics and Geodesy</i> , 2010, 40, .	0.6	21

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73	A fuzzy Bayesian approach to flood frequency estimation with imprecise historical information. <i>Water Resources Research</i> , 2016, 52, 6730-6750.	4.2	21
74	Characterization of regional variability of seasonal water balance within Omo-Ghibe River Basin, Ethiopia. <i>Hydrological Sciences Journal</i> , 2017, 62, 1200-1215.	2.6	21
75	Detecting Flood-Rich and Flood-Poor Periods in Annual Peak Discharges Across Europe. <i>Water Resources Research</i> , 2020, 56, e2019WR026575.	4.2	21
76	A three-pillar approach to assessing climate impacts on low flows. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3967-3985.	4.9	20
77	Floods in Austria. , 2019, , 169-177.		18
78	Impact of reduced anthropogenic emissions and century flood on the phosphorus stock, concentrations and loads in the Upper Danube. <i>Science of the Total Environment</i> , 2015, 518-519, 117-129.	8.0	17
79	The role of flood wave superposition in the severity of large floods. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 1633-1648.	4.9	17
80	Technical note: Hydrology modelling R packages – a unified analysis of models and practicalities from a user perspective. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3937-3973.	4.9	17
81	Modis Snowline Elevation Changes During Snowmelt Runoff Events in Europe. <i>Journal of Hydrology and Hydromechanics</i> , 2019, 67, 101-109.	2.0	14
82	Characteristics and process controls of statistical flood moments in Europe – a data-based analysis. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5535-5560.	4.9	10
83	Assessment of past flood changes across Europe based on flood-generating processes. <i>Hydrological Sciences Journal</i> , 2020, 65, 1830-1847.	2.6	9
84	Conceptual model building inspired by field-mapped runoff generation mechanisms. <i>Journal of Hydrology and Hydromechanics</i> , 2018, 66, 303-315.	2.0	9
85	Temporal Scaling of Streamflow Elasticity to Precipitation: A Global Analysis. <i>Water Resources Research</i> , 2022, 58, .	4.2	8
86	Confidence intervals for the coefficient of L-variation in hydrological applications. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 2229-2242.	4.9	7
87	Impact of Climate and Geology on Event Runoff Characteristics at the Regional Scale. <i>Water (Switzerland)</i> , 2020, 12, 3457.	2.7	7
88	Flood Processes and Hazards. , 2015, , 3-33.		5
89	Invigorating Hydrological Research Through Journal Publications. <i>Water Resources Research</i> , 2020, 56, .	4.2	5
90	A comparative analysis of the relationship between flood experience and private flood mitigation behaviour in the regions of England. <i>Journal of Flood Risk Management</i> , 2021, 14, e12700.	3.3	5

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91	A comparison between generalized least squares regression and top-kriging for homogeneous cross-correlated flood regions. <i>Hydrological Sciences Journal</i> , 2021, 66, 565-579.	2.6	5
92	Invigorating hydrological research through journal publications. <i>Hydrological Sciences Journal</i> , 2018, 63, 1113-1117.	2.6	4
93	Joint editorial: Invigorating hydrological research through journal publications. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5735-5739.	4.9	3
94	Correlation between climate and flood indices in Northwestern Italy at different temporal scales. <i>Journal of Hydrology and Hydromechanics</i> , 2022, 70, 178-194.	2.0	2
95	Human signatures derived from nighttime lights along the Eastern Alpine river network in Austria and Italy. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 373, 131-136.	1.0	1
96	Joint Editorial Invigorating Hydrological Research through Journal Publications. <i>Journal of Hydrology and Hydromechanics</i> , 2018, 66, 257-260.	2.0	1
97	Corrigendum to "Spatial moments of catchment rainfall: rainfall spatial organisation, basin morphology, and flood response" published in <i>Hydrol. Earth Syst. Sci.</i> , 15, 3767-3783, 2011. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 1237-1237.	4.9	0
98	Joint Editorial: Invigorating hydrological research through journal publications. <i>Hydrology Research</i> , 2018, 49, iii-ix.	2.7	0
99	Invigorating Hydrological Research through Journal Publications. <i>Journal of Hydrometeorology</i> , 2018, 19, 1713-1719.	1.9	0
100	Joint Editorial: Invigorating Hydrological Research through Journal Publications. <i>Vadose Zone Journal</i> , 2018, 17, 180001ed.	2.2	0
101	Invigorating hydrological research through journal publications. <i>Ecohydrology</i> , 2018, 11, e2016.	2.4	0
102	The Influence of Soil Characteristics in Low Flows Regionalization. <i>American Journal of Environmental Sciences</i> , 2009, 5, 535-545.	0.5	0
103	Preface: Extreme Hydrological Events. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 369, 1-2.	1.0	0
104	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
105	Joint editorial: Invigorating hydrological research through journal publications. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 380, 3-8.	1.0	0