Anne F Van Loon

List of Publications by Year in Descending Order

69 papers	4,169 citations	27 h-index	64 g-index
114 ext. papers	5,235 ext. citations	5.1 avg, IF	6.18 L-index

#	Paper	IF	Citations
69	Streamflow droughts aggravated by human activities despite management. *Environmental Research Letters*, **2022**, 17, 044059	6.2	1
68	Education, financial aid, and awareness can reduce smallholder farmers' vulnerability to drought under climate change. *Natural Hazards and Earth System Sciences*, **2022**, 22, 1201-1232	3.9	0
67	Invited perspectives: A research agenda towards disaster risk management pathways in multi-(hazard-)risk assessment. *Natural Hazards and Earth System Sciences*, **2022**, 22, 1487-1497	3.9	0
66	Impacts of compound hot□dry extremes on US soybean yields. *Earth System Dynamics*, **2021**, 12, 1371-1391	4.8	1
65	Evaluating integrated water management strategies to inform hydrological drought mitigation. *Natural Hazards and Earth System Sciences*, **2021**, 21, 3113-3139	3.9	2
64	Anthropogenic Drought: Definition, Challenges, and Opportunities. *Reviews of Geophysics*, **2021**, 59, e2019RG000683	15.5	99
63	Hydrological response to warm and dry weather: do glaciers compensate?. *Hydrology and Earth System Sciences*, **2021**, 25, 3245-3265	5.5	4
62	Combining in-situ fluorometry and distributed rainfall data provides new insights into natural organic matter transport dynamics in an urban river. *Science of the Total Environment*, **2021**, 755, 142731	10.2	2
61	Guiding principles for hydrologists conducting interdisciplinary research and fieldwork with participants. *Hydrological Sciences Journal*, **2021**, 66, 214-225	3.5	11
60	Managing groundwater supplies subject to drought: perspectives on current status and future priorities from England (UK). *Hydrogeology Journal*, **2021**, 29, 921-924	3.1	2
59	Complexities of drought adaptive behaviour: Linking theory to data on smallholder farmer adaptation decisions. *International Journal of Disaster Risk Reduction*, **2021**, 63, 102435	4.5	3
58	Managed aquifer recharge as a drought mitigation strategy in heavily-stressed aquifers. *Environmental Research Letters*, **2021**, 16, 014046	6.2	12
57	Global Groundwater Modeling and Monitoring: Opportunities and Challenges. *Water Resources Research*, **2021**, 57,	5.4	7
56	Water governance challenges in rural South Africa: exploring institutional coordination in drought management. *Water Policy*, **2020**, 22, 519-540	1.6	13
55	Asymmetric impact of groundwater use on groundwater droughts. *Hydrology and Earth System Sciences*, **2020**, 24, 4853-4868	5.5	17
54	Creative practice as a tool to build resilience to natural hazards in the Global South. *Geoscience Communication*, **2020**, 3, 453-474	0.7	1
53	The compensating effect of glaciers: Characterizing the relation between interannual streamflow variability and glacier cover. *Hydrological Processes*, **2020**, 34, 553-568	3.3	8

52	Approaches to analyse and model changes in impacts: reply to discussions of How to improve attribution of changes in drought and flood impacts. *Hydrological Sciences Journal*, **2020**, 65, 491-494	3.5	
51	How to improve attribution of changes in drought and flood impacts. *Hydrological Sciences Journal*, **2019**, 64, 1-18	3.5	39
50	Increased probability of compound long-duration dry and hot events in Europe during summer (1950–2013). *Environmental Research Letters*, **2019**, 14, 094006	6.2	46
49	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. *Hydrological Sciences Journal*, **2019**, 64, 1141-1158	3.5	259
48	Using paired catchments to quantify the human influence on hydrological droughts. *Hydrology and Earth System Sciences*, **2019**, 23, 1725-1739	5.5	44
47	Learning by doing: enhancing hydrology lectures with individual fieldwork projects. *Journal of Geography in Higher Education*, **2019**, 43, 155-180	1.6	7
46	An observation-based method to quantify the human influence on hydrological drought: upstream–downstream comparison. *Hydrological Sciences Journal*, **2019**, 64, 276-287	3.5	25
45	Anthropogenic activities alter drought termination. *Elementa*, **2019**, 7,	3.6	13
44	Prediction of river temperature surges is dependent on precipitation method. *Hydrological Processes*, **2019**, 33, 144-159	3.3	7
43	Hydrological modelling as a tool for interdisciplinary workshops on future drought. *Progress in Physical Geography*, **2018**, 42, 237-256	3.5	10
42	Hydrological change: Towards a consistent approach to assess changes on both floods and droughts. *Advances in Water Resources*, **2018**, 111, 31-35	4.7	18
41	Assessing baseflow index vulnerability to variation in dry spell length for a range of catchment and climate properties. *Hydrological Processes*, **2018**, 32, 2496-2509	3.3	13
40	Water shortages worsened by reservoir effects. *Nature Sustainability*, **2018**, 1, 617-622	22.1	122
39	The role of glacier changes and threshold definition in the characterisation of future streamflow droughts in glacierised catchments. *Hydrology and Earth System Sciences*, **2018**, 22, 463-485	5.5	24
38	Diagnosis of Drought-Generating Processes **2018**, 1-27		1
37	Soil Moisture Drought in Europe: A Compound Event of Precipitation and Potential Evapotranspiration on Multiple Time Scales. *Journal of Hydrometeorology*, **2018**, 19, 1255-1271	3.7	45
36	Testing the use of standardised indices and GRACE satellite data to estimate the European 2015 groundwater drought in near-real time. *Hydrology and Earth System Sciences*, **2017**, 21, 1947-1971	5.5	49
35	The European 2015 drought from a hydrological perspective. *Hydrology and Earth System Sciences*, **2017**, 21, 3001-3024	5.5	85

34	Multi-method assessment of reservoir effects on hydrological droughts in an arid region **2016**,		16
33	Multiscale evaluation of the Standardized Precipitation Index as a´groundwater drought indicator. *Hydrology and Earth System Sciences*, **2016**, 20, 1117-1131	5.5	89
32	Drought in a human-modified world: reframing drought definitions, understanding, and analysis approaches. *Hydrology and Earth System Sciences*, **2016**, 20, 3631-3650	5.5	198
31	Hydrological Classification, a Practical Tool for Mangrove Restoration. *PLoS ONE*, **2016**, 11, e0150302	3.7	25
30	Impacts of European drought events: insights from an international database of text-based reports. *Natural Hazards and Earth System Sciences*, **2016**, 16, 801-819	3.9	112
29	Response to comment on Candidate Distributions for Climatological Drought Indices (SPI and SPEI) *International Journal of Climatology*, **2016**, 36, 2132-2138	3.5	27
28	Panta Rhei 2013–2015: global perspectives on hydrology, society and change. *Hydrological Sciences Journal*, **2016**, 1-18	3.5	44
27	Hydrology needed to manage droughts: the 2015 European case. *Hydrological Processes*, **2016**, 30, 3097-3104	3.4	117
26	Hydrological drought explained. *Wiley Interdisciplinary Reviews: Water*, **2015**, 2, 359-392	5.7	513
25	Hydrological drought severity explained by climate and catchment characteristics. *Journal of Hydrology*, **2015**, 526, 3-14	6	277
24	Candidate Distributions for Climatological Drought Indices (SPI and SPEI). *International Journal of Climatology*, **2015**, 35, 4027-4040	3.5	316
23	Hydroclimatology of extreme river flows. *Freshwater Biology*, **2015**, 60, 2461-2476	3.1	33
22	Hydrological drought types in cold climates: quantitative analysis of causing factors and qualitative survey of impacts. *Hydrology and Earth System Sciences*, **2015**, 19, 1993-2016	5.5	47
21	How climate seasonality modifies drought duration and deficit. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 4640-4656	4.4	111
20	Making the distinction between water scarcity and drought using an observation-modeling framework. *Water Resources Research*, **2013**, 49, 1483-1502	5.4	150
19	Evapotranspiration amplifies European summer drought. *Geophysical Research Letters*, **2013**, 40, 2071-2075	4.9	177
18	Hydrological drought across the world: impact of climate and physical catchment structure. *Hydrology and Earth System Sciences*, **2013**, 17, 1715-1732	5.5	161
17	A process-based typology of hydrological drought. *Hydrology and Earth System Sciences*, **2012**, 16, 1915-1946	5.5	212

List of Publications

16	Evaluation of drought propagation in an ensemble mean of large-scale hydrological models. *Hydrology and Earth System Sciences*, **2012**, 16, 4057-4078	5.5	85
15	Influence of model structure on base flow estimation using Bilan, frier and HBV-light models / Vplyv štruktúry modelu na stanovenie veľkosti podzemného odtoku využitím modelov bilan, frier a hbv-light. j. hydrol. hydromech., 60, 2012, 4; 29 lit., 7 obr., 1 tab.. *Journal of Hydrology and Hydromechanics*, **2012**, 60, 242-251	2.1	3
14	Quantifying the impact of model inaccuracy in climate change impact assessment studies using an agro-hydrological model. *Hydrology and Earth System Sciences*, **2008**, 12, 669-678	5.5	16
13	Hydrological classification in mangrove areas: A case study in Can Gio, Vietnam. *Aquatic Botany*, **2007**, 87, 80-82	1.8	38
12	The Groundwater Drought Initiative (GDI): Analysing and understanding groundwater drought across Europe. *Proceedings of the International Association of Hydrological Sciences*,383, 297-305		2
11	Drought in a human-modified world: reframing drought definitions, understanding and analysis approaches		4
10	The European 2015 drought from a hydrological perspective		8
9	Frequently used drought indices reflect different drought conditions on global scale		6
8	Using paired catchments to quantify the human influence on hydrological droughts		2
7	Hydrological drought typology: temperature-related drought types and associated societal impacts		8
6	Investigation of variable threshold level approaches for hydrological drought identification		26
5	Multiscale evaluation of the standardized precipitation index as a groundwater drought indicator		6
4	Hydrological drought across the world: impact of climate and physical catchment structure		12
3	Evaluation of drought propagation in an ensemble mean of large-scale hydrological models		3
2	Impacts of European drought events: insights from an international database of text-based reports		9
1	Bridging the gap: Reply to discussion of Guiding principles for hydrologists conducting interdisciplinary research and fieldwork with participants*Hydrological Sciences Journal*,	3.5	