Henny A J Van Lanen

List of Publications by Year
in descending order

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52 papers	5,233 citations	147726 31 h-index	206029 48 g-index
82 all docs	82 docs citations	82 times ranked	5274 citing authors

#	Article	IF	Citations
1	Drought in the Anthropocene. Nature Geoscience, 2016, 9, 89-91.	5.4	537
2	Streamflow trends in Europe: evidence from a dataset of near-natural catchments. Hydrology and Earth System Sciences, 2010, 14, 2367-2382.	1.9	370
3	A process-based typology of hydrological drought. Hydrology and Earth System Sciences, 2012, 16, 1915-1946.	1.9	291
4	Drought in a human-modified world: reframing drought definitions, understanding, and analysis approaches. Hydrology and Earth System Sciences, 2016, 20, 3631-3650.	1.9	289
5	Largeâ€scale river flow archives: importance, current status and future needs. Hydrological Processes, 2011, 25, 1191-1200.	1.1	274
6	The European 2015 drought from a climatological perspective. Hydrology and Earth System Sciences, 2017, 21, 1397-1419.	1.9	224
7	Hydrological drought across the world: impact of climate and physical catchment structure. Hydrology and Earth System Sciences, 2013, 17, 1715-1732.	1.9	212
8	Making the distinction between water scarcity and drought using an observationâ€modeling framework. Water Resources Research, 2013, 49, 1483-1502.	1.7	210
9	Impacts of European drought events: insights from an international database of text-based reports. Natural Hazards and Earth System Sciences, 2016, 16, 801-819.	1.5	187
10	Spaceâ€“time modelling of catchment scale drought characteristics. Journal of Hydrology, 2009, 375, 363-372.	2.3	171
11	Humanâ€“water interface in hydrological modelling: current status and future directions. Hydrology and Earth System Sciences, 2017, 21, 4169-4193.	1.9	171
12	How climate seasonality modifies drought duration and deficit. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4640-4656.	1.2	154
13	Hydrology needed to manage droughts: the 2015 European case. Hydrological Processes, 2016, 30, 3097-3104.	1.1	152
14	Heatwaves, droughts, and fires: Exploring compound and cascading dry hazards at the pan-European scale. Environment International, 2020, 134, 105276.	4.8	148
15	Propagation and spatial distribution of drought in a groundwater catchment. Journal of Hydrology, 2006, 321, 257-275.	2.3	146
16	Filling the white space on maps of European runoff trends: estimates from a multi-model ensemble. Hydrology and Earth System Sciences, 2012, 16, 2035-2047.	1.9	134
17	The EuropeanÂ2015 drought from a hydrological perspective. Hydrology and Earth System Sciences, 2017, 21, 3001-3024.	1.9	132
18	Propagation of drought through groundwaterâ€”a new approach using linear reservoir theory. Hydrological Processes, 2003, 17, 3023-3040.	1.1	124

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19	Global hydrological droughts in the 21st century under a changing hydrological regime. Earth System Dynamics, 2015, 6, 1-15.	2.7	109
20	Amplification of wildfire area burnt by hydrological drought in the humid tropics. Nature Climate Change, 2017, 7, 428-431.	8.1	96
21	The effect of bypass flow and internal catchment of rain on the water regime in a clay loam grassland soil. Journal of Hydrology, 1987, 95, 1-11.	2.3	91
22	WATCH: Current Knowledge of the Terrestrial Global Water Cycle. Journal of Hydrometeorology, 2011, 12, 1149-1156.	0.7	87
23	Using paired catchments to quantify the human influence on hydrological droughts. Hydrology and Earth System Sciences, 2019, 23, 1725-1739.	1.9	81
24	Moving from drought hazard to impact forecasts. Nature Communications, 2019, 10, 4945.	5.8	67
25	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.	1.9	62
26	How to improve attribution of changes in drought and flood impacts. Hydrological Sciences Journal, 2019, 64, 1-18.	1.2	56
27	Integration of research advances in modelling and monitoring in support of WFD river basin management planning in the context of climate change. Science of the Total Environment, 2012, 440, 167-177.	3.9	45
28	Modification of a fire drought index for tropical wetland ecosystems by including water table depth. Agricultural and Forest Meteorology, 2015, 203, 1-10.	1.9	41
29	The future for global water assessment. Journal of Hydrology, 2014, 518, 186-193.	2.3	39
30	Future discharge drought across climate regions around the world modelled with a synthetic hydrological modelling approach forced by three general circulation models. Natural Hazards and Earth System Sciences, 2015, 15, 487-504.	1.5	37
31	Characterisation and prediction of meteorological drought using stochastic models in the semi-arid ChÃ©liffâ€“Zahrez basin (Algeria). Journal of Hydrology: Regional Studies, 2018, 16, 15-31.	1.0	37
32	Diagnosing drought using the downstreamness concept: the effect of reservoir networks on drought evolution. Hydrological Sciences Journal, 2018, 63, 979-990.	1.2	34
33	Hydrological drought forecasts outperform meteorological drought forecasts. Environmental Research Letters, 2020, 15, 084010.	2.2	33
34	Increased fire hazard in human-modified wetlands in Southeast Asia. Ambio, 2019, 48, 363-373.	2.8	28
35	Hydrology of inland tropical lowlands: the Kapuas and Mahakam wetlands. Hydrology and Earth System Sciences, 2017, 21, 2579-2594.	1.9	27
36	Potential of Pan-European Seasonal Hydrometeorological Drought Forecasts Obtained from a Multihazard Early Warning System. Bulletin of the American Meteorological Society, 2020, 101, E368-E393.	1.7	25

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37	HELPing FRIENDs in PUBs: charting a course for synergies within international water research programmes in gauged and ungauged basins. Hydrological Processes, 2006, 20, 1867-1874.	1.1	24
38	Catchment memory explains hydrological drought forecast performance. Scientific Reports, 2022, 12, 2689.	1.6	24
39	Streamflow droughts aggravated by human activities despite management. Environmental Research Letters, 2022, 17, 044059.	2.2	24
40	Streamflow drought: implication of drought definitions and its application for drought forecasting. Hydrology and Earth System Sciences, 2021, 25, 3991-4023.	1.9	22
41	Future trends in transport and fate of diffuse contaminants in catchments, with special emphasis on stable isotope applications. Hydrological Processes, 2006, 20, 205-213.	1.1	20
42	Impact assessment of drought mitigation measures in two adjacent Dutch basins using simulation modelling. Journal of Hydrology, 2001, 252, 51-64.	2.3	18
43	Evaluating skill and robustness of seasonal meteorological and hydrological drought forecasts at the catchment scale â€“ Case Catalonia (Spain). Environment International, 2019, 133, 105206.	4.8	15
44	Water flow and nitrate transport to a groundwater-fed stream in the Belgian-Dutch chalk region. Hydrological Processes, 1999, 13, 295-307.	1.1	14
45	Spatio-temporal Analysis of Hydrological Drought at Catchment Scale Using a Spatially-distributed Hydrological Model. Procedia Engineering, 2016, 154, 738-744.	1.2	14
46	Skill of large-scale seasonal drought impact forecasts. Natural Hazards and Earth System Sciences, 2020, 20, 1595-1608.	1.5	13
47	Hydrological Drought Characteristics Based on Groundwater and Runoff Across Europe. Proceedings of the International Association of Hydrological Sciences, 0, 383, 281-290.	1.0	8
48	Quantifying Positive and Negative Human-Modified Droughts in the Anthropocene: Illustration with Two Iranian Catchments. Water (Switzerland), 2019, 11, 884.	1.2	7
49	Influence of model structure on base flow estimation using Bilan, frier and HBV-light models / Vplyv Å¡truktÃºry modelu na stanovenie veÄ¾kosti podzemnÃ©ho odtoku vyuÅ¾itÃm 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.	0.7	4
50	Preface: Hydrological processes and water security in a changing world. Proceedings of the International Association of Hydrological Sciences, 0, 383, 3-4.	1.0	3
51	The UNESCO FRIEND-Water program: accelerates, shares and transfers knowledge and innovation in hydrology across the world in the frame of the Intergovernmental Hydrological Program (IHP). Proceedings of the International Association of Hydrological Sciences, 0, 384, 5-18.	1.0	1
52	Approaches to analyse and model changes in impacts: reply to discussions of â€œHow to improve attribution of changes in drought and flood impactsâ€• Hydrological Sciences Journal, 2020, 65, 491-494.	1.2	0