

# Ype van der Velde

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,893  
citations

257450

24  
h-index

265206

42  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2266  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transit times—the link between hydrology and water quality at the catchment scale. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 629-657.	6.5	184
2	Storage selection functions: A coherent framework for quantifying how catchments store and release water and solutes. <i>Water Resources Research</i> , 2015, 51, 4840-4847.	4.2	170
3	Quantifying catchment-scale mixing and its effect on time-varying travel time distributions. <i>Water Resources Research</i> , 2012, 48, .	4.2	124
4	Nitrate response of a lowland catchment: On the relation between stream concentration and travel time distribution dynamics. <i>Water Resources Research</i> , 2010, 46, .	4.2	103
5	Consequences of mixing assumptions for time-variable travel time distributions. <i>Hydrological Processes</i> , 2015, 29, 3460-3474.	2.6	93
6	Direct measurements of the tile drain and groundwater flow route contributions to surface water contamination: From field-scale concentration patterns in groundwater to catchment-scale surface water quality. <i>Environmental Pollution</i> , 2010, 158, 3571-3579.	7.5	76
7	Chloride circulation in a lowland catchment and the formulation of transport by travel time distributions. <i>Water Resources Research</i> , 2013, 49, 4619-4632.	4.2	74
8	Improving Load Estimates for NO <sub>3</sub> and P in Surface Waters by Characterizing the Concentration Response to Rainfall Events. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6305-6312.	10.0	69
9	Dominant effect of increasing forest biomass on evapotranspiration: interpretations of movement in Budyko space. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 567-580.	4.9	65
10	Exploring hydroclimatic change disparity via the Budyko framework. <i>Hydrological Processes</i> , 2014, 28, 4110-4118.	2.6	63
11	Application and Evaluation of a New Passive Sampler for Measuring Average Solute Concentrations in a Catchment Scale Water Quality Monitoring Study. <i>Environmental Science &amp; Technology</i> , 2010, 44, 1353-1359.	10.0	59
12	Field-Scale Measurements for Separation of Catchment Discharge into Flow Route Contributions. <i>Vadose Zone Journal</i> , 2010, 9, 25.	2.2	56
13	Data-driven regionalization of river discharges and emergent land cover—evapotranspiration relationships across Sweden. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2576-2587.	3.3	53
14	Iron oxidation kinetics and phosphate immobilization along the flow-path from groundwater into surface water. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4687-4702.	4.9	53
15	Cosmogenic Isotopes Unravel the Hydrochronology and Water Storage Dynamics of the Southern Sierra Critical Zone. <i>Water Resources Research</i> , 2019, 55, 1429-1450.	4.2	51
16	Integrated modeling of groundwater—surface water interactions in a tile-drained agricultural field: The importance of directly measured flow route contributions. <i>Water Resources Research</i> , 2010, 46, .	4.2	46
17	Interacting effects of change in climate, human population, land use, and water use on biodiversity and ecosystem services. <i>Ecology and Society</i> , 2015, 20, .	2.3	43
18	Anatomy of extraordinary rainfall and flash flood in a Dutch lowland catchment. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 1991-2005.	4.9	41

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19	A virtual water network of the Roman world. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 5025-5040.	4.9	40
20	Catchment-scale non-linear groundwater-surface water interactions in densely drained lowland catchments. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 1867-1885.	4.9	34
21	High-frequency monitoring of water fluxes and nutrient loads to assess the effects of controlled drainage on water storage and nutrient transport. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 347-358.	4.9	31
22	Transient Groundwater Travel Time Distributions and Age- <sup>2</sup> Ranked Storage- <sup>2</sup> Discharge Relationships of Three Lowland Catchments. <i>Water Resources Research</i> , 2018, 54, 4519-4536.	4.2	29
23	Streamflow recession patterns can help unravel the role of climate and humans in a landscape co-evolution. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1413-1432.	4.9	28
24	Interpreting characteristic drainage timescale variability across Kilombero Valley, Tanzania. <i>Hydrological Processes</i> , 2015, 29, 1912-1924.	2.6	27
25	Quantifying water and salt fluxes in a lowland polder catchment dominated by boil seepage: a probabilistic end-member mixing approach. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 2101-2117.	4.9	25
26	Late-time drainage from a sloping Boussinesq aquifer. <i>Water Resources Research</i> , 2013, 49, 7498-7507.	4.2	22
27	Pesticide fate on catchment scale: conceptual modelling of stream CSIA data. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5243-5261.	4.9	22
28	The changing contribution of top-down and bottom-up limitation of mesopredators during 220 years of land use and climate change. <i>Journal of Animal Ecology</i> , 2017, 86, 566-576.	2.8	21
29	Societal, land cover and climatic controls on river nutrient flows into the Baltic Sea. <i>Journal of Hydrology: Regional Studies</i> , 2014, 1, 44-56.	2.4	18
30	Emerging forest-peatland bistability and resilience of European peatland carbon stores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	18
31	Soil frost effects on streamflow recessions in a subarctic catchment. <i>Hydrological Processes</i> , 2019, 33, 1304-1316.	2.6	17
32	Increasing non-linearity of the storage-discharge relationship in sub-Arctic catchments. <i>Hydrological Processes</i> , 2020, 34, 3894-3909.	2.6	16
33	Improving catchment discharge predictions by inferring flow route contributions from a nested-scale monitoring and model setup. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 913-930.	4.9	16
34	Drought effects on leaf fall, leaf flushing and stem growth in the Amazon forest: reconciling remote sensing data and field observations. <i>Biogeosciences</i> , 2021, 18, 4445-4472.	3.3	14
35	Urban hydrogeology: Transport routes and mixing of water and solutes in a groundwater influenced urban lowland catchment. <i>Science of the Total Environment</i> , 2019, 678, 288-300.	8.0	11
36	Temporal variability in groundwater and surface water quality in humid agricultural catchments; driving processes and consequences for regional water quality monitoring. <i>Fundamental and Applied Limnology</i> , 2014, 184, 195-209.	0.7	10

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37	Lessons learned from monitoring the stable water isotopic variability in precipitation and streamflow across a snow-dominated subarctic catchment. <i>Arctic, Antarctic, and Alpine Research</i> , 2018, 50, .	1.1	9
38	Time lags of nitrate, chloride, and tritium in streams assessed by dynamic groundwater flow tracking in a lowland landscape. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3691-3711.	4.9	9
39	Constraining water age dynamics in a south-eastern Australian catchment using an age-ranked storage and stable isotope approach. <i>Hydrological Processes</i> , 2020, 34, 4384-4403.	2.6	8
40	Seasonal and Regional Patterns in Performance for a Baltic Sea Drainage Basin Hydrologic Model. <i>Journal of the American Water Resources Association</i> , 2015, 51, 550-566.	2.4	7
41	Dating basal peat: The geochronology of peat initiation revisited. <i>Quaternary Geochronology</i> , 2022, 72, 101278.	1.4	7
42	The Hupsel Brook Catchment: Insights from Five Decades of Lowland Observations. <i>Vadose Zone Journal</i> , 2018, 17, 180056.	2.2	5
43	Drivers of nitrogen and phosphorus dynamics in a groundwater-fed urban catchment revealed by high-frequency monitoring. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 69-87.	4.9	5
44	When do Indians feel hot? Internet searches indicate seasonality suppresses adaptation to heat. <i>Environmental Research Letters</i> , 2018, 13, 054009.	5.2	4
45	Using legacy data to reconstruct the past? Rescue, rigour and reuse in peatland geochronology. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 2607.	2.5	4
46	Reply to comment by Porporato and Calabrese on "Storage selection functions: A coherent framework for quantifying how catchments store and release water and solutes". <i>Water Resources Research</i> , 2016, 52, 616-618.	4.2	0