Stefan Uhlenbrook

List of Publications by Year
in descending order

72	3,662	109264 35	138417 58
papers	citations	h-index	g-index

73	73	73	4374
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Citizens AND HYdrology (CANDHY): conceptualizing a transdisciplinary framework for citizen science addressing hydrological challenges. Hydrological Sciences Journal, 2022, 67, 2534-2551.	1.2	33
2	Optimising the water we eatâ€"rethinking policy to enhance productive and sustainable use of water in agri-food systems across scales. Lancet Planetary Health, The, 2022, 6, e59-e65.	5.1	23
3	The role of water in transforming food systems. Global Food Security, 2022, 33, 100639.	4.0	4
4	Scienceâ€"Policy Engagement to Achieve â€œWater for Societyâ€"Including Allâ€• Water (Switzerland), 2021, 13, 246.	1.2	0
5	Modelling the Inundation and Morphology of the Seasonally Flooded Mayas Wetlands in the Dinder National Park-Sudan. Environmental Processes, 2020, 7, 723-747.	1.7	2
6	On the linkage between hydrology and societyâ€"learning from history about two-way interactions for sustainable development. Water History, 2020, 12, 387-402.	0.5	0
7	Changing Agricultural Landscapes in Ethiopia: Examining Application of Adaptive Management Approach. Sustainability, 2020, 12, 8939.	1.6	7
8	Rethinking water for SDG 6. Nature Sustainability, 2020, 3, 346-347.	11.5	87
9	Assessing the Freshâ€“Saline Groundwater Distribution in the Nile Delta Aquifer Using a 3D Variable-Density Groundwater Flow Model. Water (Switzerland), 2019, 11, 1946.	1.2	20
10	The long-term trends in hydro-climatology of the Dinder and Rahad basins, Blue Nile, Ethiopia/Sudan. International Journal of Hydrology Science and Technology, 2019, 9, 690.	0.2	0
11	Hydrograph separation using tracers and digital filters to quantify runoff components in a semiâ€arid mesoscale catchment. Hydrological Processes, 2018, 32, 1334-1350.	1.1	37
12	Sediment related impacts of climate change and reservoir development in the Lower Mekong River Basin: a case study of the Nam Ou Basin, Lao PDR. Climatic Change, 2018, 149, 13-27.	1.7	31
13	Effects of Topographic Heterogeneity on Coarse Resolution Grid-Based Runoff Simulationâ€"Assessment for Three River Basins in Peninsular Malaysia. Environmental Modeling and Assessment, 2018, 23, 277-288.	1.2	1
14	Improved Process Representation in the Simulation of the Hydrology of a Meso-Scale Semi-Arid Catchment. Water (Switzerland), 2018, 10, 1549.	1.2	5
15	Global phosphorus recovery from wastewater for agricultural reuse. Hydrology and Earth System Sciences, 2018, 22, 5781-5799.	1.9	47
16	A Review of the SDG 6 Synthesis Report 2018 from an Education, Training, and Research Perspective. Water (Switzerland), 2018, 10, 1353.	1.2	69
17	Impacts of Sea Level Rise and Groundwater Extraction Scenarios on Fresh Groundwater Resources in the Nile Delta Governorates, Egypt. Water (Switzerland), 2018, 10, 1690.	1.2	31
18	Ecosystem-based water security and the Sustainable Development Goals (SDGs). Ecohydrology and Hydrobiology, 2018, 18, 317-333.	1.0	102

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19	Optimal Operation of the Eastern Nile System Using Genetic Algorithm, and Benefits Distribution of Water Resources Development. Water (Switzerland), 2018, 10, 921.	1.2	20
20	Groundwater and surface-water interactions and impacts of human activities in the Hailiutu catchment, northwest China. Hydrogeology Journal, 2017, 25, 1341-1355.	0.9	30
21	Analysis of streamflow response to land use and land cover changes using satellite data and hydrological modelling: case study of Dinder and Rahad tributaries of the Blue Nile (Ethiopiaâ€“Sudan). Hydrology and Earth System Sciences, 2017, 21, 5217-5242.	1.9	29
22	Rainfall Characteristics and Regionalization in Peninsular Malaysia Based on a High Resolution Gridded Data Set. Water (Switzerland), 2016, 8, 500.	1.2	54
23	Characterizing the climatic water balance dynamics and different runoff components in a poorly gauged tropical forested catchment, Nicaragua. Hydrological Sciences Journal, 2016, 61, 2465-2480.	1.2	11
24	Towards more systematic perceptual model development: a case study using 3 Luxembourgish catchments. Hydrological Processes, 2015, 29, 2731-2750.	1.1	75
25	Simulation of Groundwater-Surface Water Interactions under Different Land Use Scenarios in the Bulang Catchment, Northwest China. Water (Switzerland), 2015, 7, 5959-5985.	1.2	7
26	<scp>Escherichia coli</scp> strains harvested from springs in Kampala, Uganda: cell characterization and transport in saturated porous media. Hydrological Processes, 2014, 28, 1973-1988.	1.1	11
27	Climate trends and impacts on crop production in the Koshi River basin of Nepal. Regional Environmental Change, 2014, 14, 1291-1301.	1.4	62
28	A multi-method approach to quantify groundwater/surface water-interactions in the semi-arid Hailiutu River basin, northwest China. Hydrogeology Journal, 2014, 22, 527-541.	0.9	30
29	Hydrological and Geomorphological Controls on the Water Balance Components of a Mangrove Forest During the Dry Season in the Pacific Coast of Nicaragua. Wetlands, 2014, 34, 685-697.	0.7	8
30	Downscaling daily precipitation over the Yellow River source region in China: a comparison of three statistical downscaling methods. Theoretical and Applied Climatology, 2013, 112, 447-460.	1.3	67
31	Understanding recent land use and land cover dynamics in the source region of the Upper Blue Nile, Ethiopia: Spatially explicit statistical modeling of systematic transitions. Agriculture, Ecosystems and Environment, 2013, 165, 98-117.	2.5	142
32	Climate-change impact assessment for inlet-interrupted coastlines. Nature Climate Change, 2013, 3, 83-87.	8.1	126
33	Distributed conceptual modelling in a Swedish lowland catchment: a multi-criteria model assessment. Hydrology Research, 2013, 44, 318-333.	1.1	17
34	Is the current flood of data enough? A treatise on research needs for the improvement of flood modelling. Hydrological Processes, 2012, 26, 153-158.	1.1	65
35	Trends in temperature and rainfall extremes in the Yellow River source region, China. Climatic Change, 2012, 110, 403-429.	1.7	116
36	Future hydrology and climate in the River Nile basin: a review. Hydrological Sciences Journal, 2011, 56, 199-211.	1.2	98

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37	Regionalising a meso-catchment scale conceptual model for river basin management in the semi-arid environment. Physics and Chemistry of the Earth, 2011, 36, 747-760.	1.2	9
38	A SCALE AGGREGATED MODEL TO ESTIMATE CLIMATE CHANGE DRIVEN COASTLINE CHANGE ALONG INLET INTERRUPTED COASTS. , 2011, , .		2
39	Assessing the Impact of Areal Precipitation Input on Streamflow Simulations Using the SWAT Model1. Journal of the American Water Resources Association, 2011, 47, 179-195.	1.0	100
40	An analysis of snow cover changes in the Himalayan region using MODIS snow products and in-situ temperature data. Climatic Change, 2011, 108, 391-400.	1.7	84
41	Streamflow trends and climate linkages in the source region of the Yellow River, China. Hydrological Processes, 2011, 25, 3399-3411.	1.1	120
42	Using multiple artificial DNA tracers in hydrology. Hydrological Processes, 2011, 25, 3101-3106.	1.1	30
43	Comparison of flood management options for the Yang River Basin, Thailand. Irrigation and Drainage, 2011, 60, 526-543.	0.8	17
44	Analysis of stream flow characteristics of the Hailiutu River in the central Yellow River, China. , 2011, , .		1
45	Rainfallâ€“interceptionâ€“evaporationâ€“runoff relationships in a semi-arid catchment, northern Limpopo basin, Zimbabwe. Hydrological Sciences Journal, 2010, 55, 687-703.	1.2	51
46	Experimental investigations of water fluxes within the soilâ€“vegetationâ€“atmosphere system: Stable isotope mass-balance approach to partition evaporation and transpiration. Physics and Chemistry of the Earth, 2010, 35, 565-570.	1.2	44
47	Towards understanding inter-strain attachment variations of Escherichia coli during transport in saturated quartz sand. Water Research, 2010, 44, 1202-1212.	5.3	44
48	Joint interpretation of hydrological and geophysical data: electrical resistivity tomography results from a process hydrological research site in the Black Forest Mountains, Germany. Hydrological Processes, 2009, 23, 1501-1513.	1.1	45
49	Comparison of groundwater recharge estimation methods for the semi-arid Nyamandhlovu area, Zimbabwe. Hydrogeology Journal, 2009, 17, 1427-1441.	0.9	59
50	Analysing streamflow variability and water allocation for sustainable management of water resources in the semi-arid Karkheh river basin, Iran. Physics and Chemistry of the Earth, 2009, 34, 329-340.	1.2	52
51	Water level monitoring using radar remote sensing data: Application to Lake Kivu, central Africa. Physics and Chemistry of the Earth, 2009, 34, 722-728.	1.2	35
52	Scaling of dominant runoff generation processes: Nested catchments approach using multiple tracers. Water Resources Research, 2008, 44, .	1.7	59
53	Hydrograph separation using hydrochemical tracers in the Makanya catchment, Tanzania. Physics and Chemistry of the Earth, 2008, 33, 151-156.	1.2	52
54	Identification of runoff generation processes using combined hydrometric, tracer and geophysical methods in a headwater catchment in South Africa / Identification des processus de formation du dÃ©bit en combinat la mÃ©thodes hydromÃ©trique, traceur et gÃ©ophysiques dans un bassin versant sud-africain. Hydrological Sciences Journal, 2008, 53, 65-80.	1.2	57

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55	Source areas and mixing of runoff components at the hillslope scaleâ€"a multi-technical approach. Hydrological Sciences Journal, 2008, 53, 741-753.	1.2	37
56	Distributed, high-resolution modelling of 18O signals in a meso-scale catchment. Journal of Hydrology, 2007, 332, 497-510.	2.3	22
57	Biofuel and water cycle dynamics: what are the related challenges for hydrological processes research?. Hydrological Processes, 2007, 21, 3647-3650.	1.1	29
58	Catchment hydrologyâ€"a science in which all processes are preferential. Hydrological Processes, 2006, 20, 3581-3585.	1.1	75
59	Operational Weather Radar Assessment of Convective Precipitation as an Input to Flood Modelling in Mountainous Basins. , 2006, , 233-246.		3
60	On the value of experimental data to reduce the prediction uncertainty of a process-oriented catchment model. Environmental Modelling and Software, 2005, 20, 19-32.	1.9	66
61	Sensitivity analyses of a distributed catchment model to verify the model structure. Journal of Hydrology, 2005, 310, 216-235.	2.3	136
62	Experimental evidence of fast groundwater responses in a hillslope/floodplain area in the Black Forest Mountains, Germany. Hydrological Processes, 2004, 18, 3305-3322.	1.1	75
63	Modeling spatial patterns of saturated areas: An evaluation of different terrain indices. Water Resources Research, 2004, 40, .	1.7	107
64	Hydrological process representation at the meso-scale: the potential of a distributed, conceptual catchment model. Journal of Hydrology, 2004, 291, 278-296.	2.3	145
65	Runoff generation and implications for river basin modelling special issue. Hydrological Processes, 2003, 17, 197-198.	1.1	19
66	Checking a process-based catchment model by artificial neural networks. Hydrological Processes, 2003, 17, 265-277.	1.1	8
67	Quantifying uncertainties in tracer-based hydrograph separations: a case study for two-, three- and five-component hydrograph separations in a mountainous catchment. Hydrological Processes, 2003, 17, 431-453.	1.1	140
68	An empirical approach for delineating spatial units with the same dominating runoff generation processes. Physics and Chemistry of the Earth, 2003, 28, 297-303.	1.2	24
69	Hydrograph separations in a mesoscale mountainous basin at event and seasonal timescales. Water Resources Research, 2002, 38, 31-1-31-14.	1.7	197
70	Regionalisierungsverfahren zur Ausweisung von Hydrotopen in von periglazialem Hangschutt geprÃgten Gebieten. Grundwasser, 2002, 7, 206-216.	1.4	17
71	Prediction uncertainty of conceptual rainfall-runoff models caused by problems in identifying model parameters and structure. Hydrological Sciences Journal, 1999, 44, 779-797.	1.2	226
72	Modelling rainfallâ€"runoff processes of the Chemoga and Jedeb meso-scale catchments in the Abay/Upper Blue Nile basin, Ethiopia. Hydrological Sciences Journal, 0, , 1-18.	1.2	8