

Stefan Uhlenbrook

List of Publications by Year in descending order

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72
papers

3,662
citations

109264

35
h-index

138417

58
g-index

73
all docs

73
docs citations

73
times ranked

4374
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction uncertainty of conceptual rainfall-runoff models caused by problems in identifying model parameters and structure. <i>Hydrological Sciences Journal</i> , 1999, 44, 779-797.	1.2	226
2	Hydrograph separations in a mesoscale mountainous basin at event and seasonal timescales. <i>Water Resources Research</i> , 2002, 38, 31-1-31-14.	1.7	197
3	Hydrological process representation at the meso-scale: the potential of a distributed, conceptual catchment model. <i>Journal of Hydrology</i> , 2004, 291, 278-296.	2.3	145
4	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. <i>Agriculture, Ecosystems and Environment</i> , 2013, 165, 98-117.	2.5	142
5	Quantifying uncertainties in tracer-based hydrograph separations: a case study for two-, three- and five-component hydrograph separations in a mountainous catchment. <i>Hydrological Processes</i> , 2003, 17, 431-453.	1.1	140
6	Sensitivity analyses of a distributed catchment model to verify the model structure. <i>Journal of Hydrology</i> , 2005, 310, 216-235.	2.3	136
7	Climate-change impact assessment for inlet-interrupted coastlines. <i>Nature Climate Change</i> , 2013, 3, 83-87.	8.1	126
8	Streamflow trends and climate linkages in the source region of the Yellow River, China. <i>Hydrological Processes</i> , 2011, 25, 3399-3411.	1.1	120
9	Trends in temperature and rainfall extremes in the Yellow River source region, China. <i>Climatic Change</i> , 2012, 110, 403-429.	1.7	116
10	Modeling spatial patterns of saturated areas: An evaluation of different terrain indices. <i>Water Resources Research</i> , 2004, 40, .	1.7	107
11	Ecosystem-based water security and the Sustainable Development Goals (SDGs). <i>Ecohydrology and Hydrobiology</i> , 2018, 18, 317-333.	1.0	102
12	Assessing the Impact of Areal Precipitation Input on Streamflow Simulations Using the SWAT Model1. <i>Journal of the American Water Resources Association</i> , 2011, 47, 179-195.	1.0	100
13	Future hydrology and climate in the River Nile basin: a review. <i>Hydrological Sciences Journal</i> , 2011, 56, 199-211.	1.2	98
14	Rethinking water for SDG 6. <i>Nature Sustainability</i> , 2020, 3, 346-347.	11.5	87
15	An analysis of snow cover changes in the Himalayan region using MODIS snow products and in-situ temperature data. <i>Climatic Change</i> , 2011, 108, 391-400.	1.7	84
16	Experimental evidence of fast groundwater responses in a hillslope/floodplain area in the Black Forest Mountains, Germany. <i>Hydrological Processes</i> , 2004, 18, 3305-3322.	1.1	75
17	Catchment hydrologyâ€™a science in which all processes are preferential. <i>Hydrological Processes</i> , 2006, 20, 3581-3585.	1.1	75
18	Towards more systematic perceptual model development: a case study using 3 Luxembourgish catchments. <i>Hydrological Processes</i> , 2015, 29, 2731-2750.	1.1	75

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19	A Review of the SDG 6 Synthesis Report 2018 from an Education, Training, and Research Perspective. <i>Water (Switzerland)</i> , 2018, 10, 1353.	1.2	69
20	Downscaling daily precipitation over the Yellow River source region in China: a comparison of three statistical downscaling methods. <i>Theoretical and Applied Climatology</i> , 2013, 112, 447-460.	1.3	67
21	On the value of experimental data to reduce the prediction uncertainty of a process-oriented catchment model. <i>Environmental Modelling and Software</i> , 2005, 20, 19-32.	1.9	66
22	Is the current flood of data enough? A treatise on research needs for the improvement of flood modelling. <i>Hydrological Processes</i> , 2012, 26, 153-158.	1.1	65
23	Climate trends and impacts on crop production in the Koshi River basin of Nepal. <i>Regional Environmental Change</i> , 2014, 14, 1291-1301.	1.4	62
24	Scaling of dominant runoff generation processes: Nested catchments approach using multiple tracers. <i>Water Resources Research</i> , 2008, 44, .	1.7	59
25	Comparison of groundwater recharge estimation methods for the semi-arid Nyamandhlovu area, Zimbabwe. <i>Hydrogeology Journal</i> , 2009, 17, 1427-1441.	0.9	59
26	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 débit en combinant les méthodes hydrométriques, traceur et géophysiques dans un bassin versant sud-africain. <i>Hydrological Sciences Journal</i> , 2008, 53, 65-80.	1.2	57
27	Rainfall Characteristics and Regionalization in Peninsular Malaysia Based on a High Resolution Gridded Data Set. <i>Water (Switzerland)</i> , 2016, 8, 500.	1.2	54
28	Hydrograph separation using hydrochemical tracers in the Makanya catchment, Tanzania. <i>Physics and Chemistry of the Earth</i> , 2008, 33, 151-156.	1.2	52
29	Analysing streamflow variability and water allocation for sustainable management of water resources in the semi-arid Karkheh river basin, Iran. <i>Physics and Chemistry of the Earth</i> , 2009, 34, 329-340.	1.2	52
30	Rainfall–interception–evaporation–runoff relationships in a semi-arid catchment, northern Limpopo basin, Zimbabwe. <i>Hydrological Sciences Journal</i> , 2010, 55, 687-703.	1.2	51
31	Global phosphorus recovery from wastewater for agricultural reuse. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5781-5799.	1.9	47
32	Joint interpretation of hydrological and geophysical data: electrical resistivity tomography results from a process hydrological research site in the Black Forest Mountains, Germany. <i>Hydrological Processes</i> , 2009, 23, 1501-1513.	1.1	45
33	Experimental investigations of water fluxes within the soil–vegetation–atmosphere system: Stable isotope mass-balance approach to partition evaporation and transpiration. <i>Physics and Chemistry of the Earth</i> , 2010, 35, 565-570.	1.2	44
34	Towards understanding inter-strain attachment variations of <i>Escherichia coli</i> during transport in saturated quartz sand. <i>Water Research</i> , 2010, 44, 1202-1212.	5.3	44
35	Source areas and mixing of runoff components at the hillslope scale—a multi-technical approach. <i>Hydrological Sciences Journal</i> , 2008, 53, 741-753.	1.2	37
36	Hydrograph separation using tracers and digital filters to quantify runoff components in a semi-arid mesoscale catchment. <i>Hydrological Processes</i> , 2018, 32, 1334-1350.	1.1	37

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37	Water level monitoring using radar remote sensing data: Application to Lake Kivu, central Africa. <i>Physics and Chemistry of the Earth</i> , 2009, 34, 722-728.	1.2	35
38	Citizens AND HYdrology (CANDHY): conceptualizing a transdisciplinary framework for citizen science addressing hydrological challenges. <i>Hydrological Sciences Journal</i> , 2022, 67, 2534-2551.	1.2	33
39	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. <i>Climatic Change</i> , 2018, 149, 13-27.	1.7	31
40	Impacts of Sea Level Rise and Groundwater Extraction Scenarios on Fresh Groundwater Resources in the Nile Delta Governorates, Egypt. <i>Water (Switzerland)</i> , 2018, 10, 1690.	1.2	31
41	Using multiple artificial DNA tracers in hydrology. <i>Hydrological Processes</i> , 2011, 25, 3101-3106.	1.1	30
42	A multi-method approach to quantify groundwater/surface water-interactions in the semi-arid Hailiutu River basin, northwest China. <i>Hydrogeology Journal</i> , 2014, 22, 527-541.	0.9	30
43	Groundwater and surface-water interactions and impacts of human activities in the Hailiutu catchment, northwest China. <i>Hydrogeology Journal</i> , 2017, 25, 1341-1355.	0.9	30
44	Biofuel and water cycle dynamics: what are the related challenges for hydrological processes research?. <i>Hydrological Processes</i> , 2007, 21, 3647-3650.	1.1	29
45	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 (Ethiopia/Sudan). <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5217-5242.	1.9	29
46	An empirical approach for delineating spatial units with the same dominating runoff generation processes. <i>Physics and Chemistry of the Earth</i> , 2003, 28, 297-303.	1.2	24
47	Optimising the water we eat – rethinking policy to enhance productive and sustainable use of water in agri-food systems across scales. <i>Lancet Planetary Health</i> , The, 2022, 6, e59-e65.	5.1	23
48	Distributed, high-resolution modelling of 18O signals in a meso-scale catchment. <i>Journal of Hydrology</i> , 2007, 332, 497-510.	2.3	22
49	Optimal Operation of the Eastern Nile System Using Genetic Algorithm, and Benefits Distribution of Water Resources Development. <i>Water (Switzerland)</i> , 2018, 10, 921.	1.2	20
50	Assessing the Fresh/Saline Groundwater Distribution in the Nile Delta Aquifer Using a 3D Variable-Density Groundwater Flow Model. <i>Water (Switzerland)</i> , 2019, 11, 1946.	1.2	20
51	Runoff generation and implications for river basin modelling special issue. <i>Hydrological Processes</i> , 2003, 17, 197-198.	1.1	19
52	Regionalisierungsverfahren zur Ausweisung von Hydrotopen in von periglazialem Hangschutt geprägten Gebieten. <i>Grundwasser</i> , 2002, 7, 206-216.	1.4	17
53	Comparison of flood management options for the Yang River Basin, Thailand. <i>Irrigation and Drainage</i> , 2011, 60, 526-543.	0.8	17
54	Distributed conceptual modelling in a Swedish lowland catchment: a multi-criteria model assessment. <i>Hydrology Research</i> , 2013, 44, 318-333.	1.1	17

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55	<sc><i>Escherichia coli</i></sc> strains harvested from springs in Kampala, Uganda: cell characterization and transport in saturated porous media. Hydrological Processes, 2014, 28, 1973-1988.	1.1	11
56	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
57	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
58	Checking a process-based catchment model by artificial neural networks. Hydrological Processes, 2003, 17, 265-277.	1.1	8
59	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
60	Modelling rainfall-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
61	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
62	Changing Agricultural Landscapes in Ethiopia: Examining Application of Adaptive Management Approach. Sustainability, 2020, 12, 8939.	1.6	7
63	Improved Process Representation in the Simulation of the Hydrology of a Meso-Scale Semi-Arid Catchment. Water (Switzerland), 2018, 10, 1549.	1.2	5
64	The role of water in transforming food systems. Global Food Security, 2022, 33, 100639.	4.0	4
65	Operational Weather Radar Assessment of Convective Precipitation as an Input to Flood Modelling in Mountainous Basins. , 2006, , 233-246.		3
66	A SCALE AGGREGATED MODEL TO ESTIMATE CLIMATE CHANGE DRIVEN COASTLINE CHANGE ALONG INLET INTERRUPTED COASTS. , 2011, , .		2
67	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
68	Analysis of stream flow characteristics of the Hailiutu River in the central Yellow River, China. , 2011, , .		1
69	Effects of Topographic Heterogeneity on Coarse Resolution Grid-Based Runoff Simulation—Assessment for Three River Basins in Peninsular Malaysia. Environmental Modeling and Assessment, 2018, 23, 277-288.	1.2	1
70	On the linkage between hydrology and society—learning from history about two-way interactions for sustainable development. Water History, 2020, 12, 387-402.	0.5	0
71	Science—Policy Engagement to Achieve “Water for Society” Including All—Water (Switzerland), 2021, 13, 246.	1.2	0
72	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