

Jan Seibert

List of Publications by Year in descending order

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245
papers

17,428
citations

12230

68
h-index

17594

119
g-index

361
all docs

361
docs citations

361
times ranked

13452
citing authors

#	ARTICLE	IF	CITATIONS
1	On the calculation of the topographic wetness index: evaluation of different methods based on field observations. <i>Hydrology and Earth System Sciences</i> , 2006, 10, 101-112.	4.9	669
2	The role of topography on catchment-scale water residence time. <i>Water Resources Research</i> , 2005, 41, .	4.1	582
3	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	2.6	556
4	On the dialog between experimentalist and modeler in catchment hydrology: Use of soft data for multicriteria model calibration. <i>Water Resources Research</i> , 2002, 38, 23-1-23-14.	4.1	490
5	Teaching hydrological modeling with a user-friendly catchment-runoff-model software package. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3315-3325.	4.9	389
6	Is bias correction of regional climate model (RCM) simulations possible for non-stationary conditions?. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 5061-5077.	4.9	323
7	Regionalisation of parameters for a conceptual rainfall-runoff model. <i>Agricultural and Forest Meteorology</i> , 1999, 98-99, 279-293.	4.8	307
8	Resolving the Double Paradox of rapidly mobilized old water with highly variable responses in runoff chemistry. <i>Hydrological Processes</i> , 2004, 18, 185-189.	2.6	303
9	Regional Climate Models for Hydrological Impact Studies at the Catchment Scale: A Review of Recent Modeling Strategies. <i>Geography Compass</i> , 2010, 4, 834-860.	2.7	301
10	Multi-criteria calibration of a conceptual runoff model using a genetic algorithm. <i>Hydrology and Earth System Sciences</i> , 2000, 4, 215-224.	4.9	291
11	How old is streamwater? Open questions in catchment transit time conceptualization, modelling and analysis. <i>Hydrological Processes</i> , 2010, 24, 1745-1754.	2.6	285
12	A new triangular multiple flow direction algorithm for computing upslope areas from gridded digital elevation models. <i>Water Resources Research</i> , 2007, 43, .	4.1	279
13	Topographical influences on soil properties in boreal forests. <i>Geoderma</i> , 2007, 141, 139-148.	5.2	258
14	<i>Aqua Incognita</i> : the unknown headwaters. <i>Hydrological Processes</i> , 2008, 22, 1239-1242.	2.6	248
15	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.	2.6	229
16	Modeling spatial patterns of saturated areas: A comparison of the topographic wetness index and a dynamic distributed model. <i>Journal of Hydrology</i> , 2009, 373, 15-23.	5.5	229
17	Calibration of hydrological models using flow-duration curves. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 2205-2227.	4.9	212
18	Effects of DEM resolution on the calculation of topographical indices: TWI and its components. <i>Journal of Hydrology</i> , 2007, 347, 79-89.	5.5	209

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19	Estimation of Parameter Uncertainty in the HBV Model. <i>Hydrology Research</i> , 1997, 28, 247-262.	2.4	208
20	The role of catchment scale and landscape characteristics for runoff generation of boreal streams. <i>Journal of Hydrology</i> , 2007, 344, 198-209.	5.5	204
21	Linking soil- and stream-water chemistry based on a Riparian Flow-Concentration Integration Model. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 2287-2297.	4.9	200
22	Gauging the ungauged basin: how many discharge measurements are needed?. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 883-892.	4.9	198
23	Robust changes and sources of uncertainty in the projected hydrological regimes of Swiss catchments. <i>Water Resources Research</i> , 2014, 50, 7541-7562.	4.1	192
24	Assessing the impact of land use change on hydrology by ensemble modeling (LUCHEM). I: Model intercomparison with current land use. <i>Advances in Water Resources</i> , 2009, 32, 129-146.	3.8	184
25	Scale effects on headwater catchment runoff timing, flow sources, and groundwater-streamflow relations. <i>Water Resources Research</i> , 2004, 40, .	4.1	182
26	A new topographic index to quantify downslope controls on local drainage. <i>Water Resources Research</i> , 2004, 40, .	4.1	182
27	Hydrological flow paths during snowmelt: Congruence between hydrometric measurements and oxygen 18 in meltwater, soil water, and runoff. <i>Water Resources Research</i> , 2004, 40, .	4.1	178
28	Evaluation of different downscaling techniques for hydrological climate-change impact studies at the catchment scale. <i>Climate Dynamics</i> , 2011, 37, 2087-2105.	3.8	165
29	Plant Species Numbers Predicted by a Topography-based Groundwater Flow Index. <i>Ecosystems</i> , 2005, 8, 430-441.	3.3	161
30	Distributed assessment of contributing area and riparian buffering along stream networks. <i>Water Resources Research</i> , 2003, 39, .	4.1	151
31	Does model performance improve with complexity? A case study with three hydrological models. <i>Journal of Hydrology</i> , 2015, 523, 147-159.	5.5	144
32	Dissolved Inorganic Carbon Export Across the Soil/Stream Interface and Its Fate in a Boreal Headwater Stream. <i>Environmental Science & Technology</i> , 2009, 43, 7364-7369.	10.3	143
33	Reliability of Model Predictions Outside Calibration Conditions. <i>Hydrology Research</i> , 2003, 34, 477-492.	2.4	137
34	Groundwater dynamics along a hillslope: A test of the steady state hypothesis. <i>Water Resources Research</i> , 2003, 39, .	4.1	133
35	Cross-regional prediction of long-term trajectory of stream water DOC response to climate change. <i>Geophysical Research Letters</i> , 2012, 39, .	3.9	132
36	Assessing the impact of land use change on hydrology by ensemble modelling (LUCHEM) II: Ensemble combinations and predictions. <i>Advances in Water Resources</i> , 2009, 32, 147-158.	3.8	131

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37	Stage-discharge uncertainty derived with a non-stationary rating curve in the Choluteca River, Honduras. <i>Hydrological Processes</i> , 2011, 25, 603-613.	2.6	131
38	Evaluating model performance: towards a non-parametric variant of the Kling-Gupta efficiency. <i>Hydrological Sciences Journal</i> , 2018, 63, 1941-1953.	2.6	129
39	Riparian zone hydrology and soil water total organic carbon (TOC): implications for spatial variability and upscaling of lateral riparian TOC exports. <i>Biogeosciences</i> , 2012, 9, 3901-3916.	3.4	122
40	Inter-catchment comparison to assess the influence of topography and soils on catchment transit times in a geomorphic province; the Cairngorm mountains, Scotland. <i>Hydrological Processes</i> , 2009, 23, 1874-1886.	2.6	116
41	On the need for benchmarks in hydrological modelling. <i>Hydrological Processes</i> , 2001, 15, 1063-1064.	2.6	115
42	Accelerating advances in continental domain hydrologic modeling. <i>Water Resources Research</i> , 2015, 51, 10078-10091.	4.1	114
43	On the value of glacier mass balances for hydrological model calibration. <i>Journal of Hydrology</i> , 2010, 385, 238-246.	5.5	112
44	The value of multiple data set calibration versus model complexity for improving the performance of hydrological models in mountain catchments. <i>Water Resources Research</i> , 2015, 51, 1939-1958.	4.1	112
45	Modeling spatial patterns of saturated areas: An evaluation of different terrain indices. <i>Water Resources Research</i> , 2004, 40, .	4.1	109
46	Wetland occurrence in relation to topography: a test of topographic indices as moisture indicators. <i>Agricultural and Forest Meteorology</i> , 1999, 98-99, 325-340.	4.8	107
47	Comparison of hydrological model structures based on recession and low flow simulations. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 3447-3459.	4.9	107
48	Catchment water storage variation with elevation. <i>Hydrological Processes</i> , 2017, 31, 2000-2015.	2.6	107
49	Estimation of permafrost thawing rates in a sub-arctic catchment using recession flow analysis. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 595-604.	4.9	103
50	Land-cover impacts on streamflow: a change-detection modelling approach that incorporates parameter uncertainty. <i>Hydrological Sciences Journal</i> , 2010, 55, 316-332.	2.6	97
51	Multi-criterial validation of TOPMODEL in a mountainous catchment. <i>Hydrological Processes</i> , 1999, 13, 1603-1620.	2.6	93
52	Flood-type classification in mountainous catchments using crisp and fuzzy decision trees. <i>Water Resources Research</i> , 2015, 51, 7959-7976.	4.1	93
53	Upper and lower benchmarks in hydrological modelling. <i>Hydrological Processes</i> , 2018, 32, 1120-1125.	2.6	90
54	Simulating interactions between saturated and unsaturated storage in a conceptual runoff model. <i>Hydrological Processes</i> , 2003, 17, 379-390.	2.6	88

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55	A test of TOPMODEL's ability to predict spatially distributed groundwater levels. <i>Hydrological Processes</i> , 1997, 11, 1131-1144.	2.6	87
56	Assessing the impact of land use change on hydrology by ensemble modeling (LUCHEM) III: Scenario analysis. <i>Advances in Water Resources</i> , 2009, 32, 159-170.	3.8	87
57	A drought index accounting for snow. <i>Water Resources Research</i> , 2014, 50, 7861-7872.	4.1	86
58	Dynamics of stream water TOC concentrations in a boreal headwater catchment: Controlling factors and implications for climate scenarios. <i>Journal of Hydrology</i> , 2009, 373, 44-56.	5.5	85
59	Regional water balance modelling in the NOPEX area: development and application of monthly water balance models. <i>Journal of Hydrology</i> , 1996, 180, 211-236.	5.5	83
60	Water storage in a till catchment. II: Implications of transmissivity feedback for flow paths and turnover times. <i>Hydrological Processes</i> , 2011, 25, 3950-3959.	2.6	82
61	Effects of wildfire on catchment runoff response: a modelling approach to detect changes in snow-dominated forested catchments. <i>Hydrology Research</i> , 2010, 41, 378-390.	2.4	80
62	Continuous long-term measurements of soil-plant-atmosphere variables at a forest site. <i>Agricultural and Forest Meteorology</i> , 1999, 98-99, 53-73.	4.8	78
63	Topographic controls on shallow groundwater levels in a steep, prealpine catchment: When are the TWI assumptions valid?. <i>Water Resources Research</i> , 2014, 50, 6067-6080.	4.1	75
64	Progressive water deficits during multiyear droughts in basins with long hydrological memory in Chile. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 429-446.	4.9	75
65	Snow redistribution for the hydrological modeling of alpine catchments. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1232.	7.0	74
66	Toward catchment hydro-geochemical theories. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1495.	7.0	74
67	Stable oxygen and hydrogen isotopes in sub-Arctic lake waters from northern Sweden. <i>Journal of Hydrology</i> , 2009, 376, 143-151.	5.5	73
68	Effects of univariate and multivariate bias correction on hydrological impact projections in alpine catchments. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1339-1354.	4.9	72
69	Temporal sampling strategies and uncertainty in calibrating a conceptual hydrological model for a small boreal catchment. <i>Hydrological Processes</i> , 2009, 23, 3093-3109.	2.6	70
70	Flood type specific construction of synthetic design hydrographs. <i>Water Resources Research</i> , 2017, 53, 1390-1406.	4.1	70
71	Conceptualization in catchment modelling: simply learning?. <i>Hydrological Processes</i> , 2008, 22, 2389-2393.	2.6	67
72	Bivariate return periods and their importance for flood peak and volume estimation. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 819-833.	7.0	67

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73	Catchment-scale estimates of flow path partitioning and water storage based on transit time and runoff modelling. <i>Hydrological Processes</i> , 2011, 25, 3960-3976.	2.6	66
74	Virtual Staff Gauges for Crowd-Based Stream Level Observations. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	64
75	Importance of maximum snow accumulation for summer low flows in humid catchments. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 859-874.	4.9	64
76	Controls on snowmelt water mean transit times in northern boreal catchments. <i>Hydrological Processes</i> , 2010, 24, 1672-1684.	2.6	63
77	Hillslope-riparian-stream connectivity and flow directions at the Panola Mountain Research Watershed. <i>Hydrological Processes</i> , 2015, 29, 3556-3574.	2.6	63
78	How uncertainty analysis of streamflow data can reduce costs and promote robust decisions in water management applications. <i>Water Resources Research</i> , 2017, 53, 5220-5228.	4.1	63
79	Riparian soil temperature modification of the relationship between flow and dissolved organic carbon concentration in a boreal stream. <i>Water Resources Research</i> , 2011, 47, .	4.1	62
80	Gauging the Ungauged Basin: Relative Value of Soft and Hard Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	2.1	61
81	Landscape controls on spatiotemporal discharge variability in a boreal catchment. <i>Water Resources Research</i> , 2016, 52, 6541-6556.	4.1	61
82	Use of color maps and wavelet coherence to discern seasonal and interannual climate influences on streamflow variability in northern catchments. <i>Water Resources Research</i> , 2013, 49, 6194-6207.	4.1	60
83	Comparison of threshold hydrologic response across northern catchments. <i>Hydrological Processes</i> , 2015, 29, 3575-3591.	2.6	59
84	Location and density of rain gauges for the estimation of spatial varying precipitation. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2015, 97, 167-179.	1.4	59
85	Expansion and contraction of the flowing stream network alter hillslope flowpath lengths and the shape of the travel time distribution. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4825-4834.	4.9	58
86	Catchments on the cusp? Structural and functional change in northern ecohydrology. <i>Hydrological Processes</i> , 2013, 27, 766-774.	2.6	57
87	Specific discharge variability in a boreal landscape. <i>Water Resources Research</i> , 2012, 48, .	4.1	56
88	Spatial variability in the isotopic composition of rainfall in a small headwater catchment and its effect on hydrograph separation. <i>Journal of Hydrology</i> , 2017, 547, 755-769.	5.5	56
89	Modeling of Future Changes in Seasonal Snowpack and Impacts on Summer Low Flows in Alpine Catchments. <i>Water Resources Research</i> , 2018, 54, 538-556.	4.1	55
90	Forest Harvest Increases Runoff Most during Low Flows in Two Boreal Streams. <i>Ambio</i> , 2009, 38, 357-363.	5.7	53

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91	Spatial variation in discharge and concentrations of organic carbon in a catchment network of boreal streams in northern Sweden. <i>Journal of Hydrology</i> , 2007, 342, 72-87.	5.5	52
92	Impact of social preparedness on flood early warning systems. <i>Water Resources Research</i> , 2017, 53, 522-534.	4.1	52
93	Global Fully Distributed Parameter Regionalization Based on Observed Streamflow From 4,229 Headwater Catchments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031485.	3.3	52
94	Assessing the benefit of snow data assimilation for runoff modeling in Alpine catchments. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3895-3905.	4.9	51
95	Bias correction for hydrological impact studies “ beyond the daily perspective. <i>Hydrological Processes</i> , 2014, 28, 4823-4828.	2.6	49
96	Spatial heterogeneity of the spring flood acid pulse in a boreal stream network†. <i>Science of the Total Environment</i> , 2008, 407, 708-722.	8.1	48
97	Model Calibration Criteria for Estimating Ecological Flow Characteristics. <i>Water (Switzerland)</i> , 2015, 7, 2358-2381.	2.8	47
98	Smiling in the rain: Seven reasons to be positive about uncertainty in hydrological modelling. <i>Hydrological Processes</i> , 2013, 27, 1117-1122.	2.6	46
99	Propagation of biases in climate models from the synoptic to the regional scale: Implications for bias adjustment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2075-2089.	3.3	46
100	Contributing sources to baseflow in pre-Alpine headwaters using spatial snapshot sampling. <i>Hydrological Processes</i> , 2015, 29, 5321-5336.	2.6	44
101	Pre-event water contributions to runoff events of different magnitude in pre-alpine headwaters. <i>Hydrology Research</i> , 2017, 48, 28-47.	2.4	44
102	Geostatistical investigation into the temporal evolution of spatial structure in a shallow water table. <i>Hydrology and Earth System Sciences</i> , 2006, 10, 113-125.	4.9	43
103	Citizens AND Hydrology (CANDHY): conceptualizing a transdisciplinary framework for citizen science addressing hydrological challenges. <i>Hydrological Sciences Journal</i> , 2022, 67, 2534-2551.	2.6	43
104	Variability of groundwater levels and total organic carbon in the riparian zone of a boreal catchment. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.2	42
105	Regional water balance modelling using flow-duration curves with observational uncertainties. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2993-3013.	4.9	42
106	Multiscale calibration and validation of a conceptual rainfall-runoff model. <i>Physics and Chemistry of the Earth</i> , 2000, 25, 59-64.	0.3	40
107	Prediction of hydrographs and flow-duration curves in almost ungauged catchments: Which runoff measurements are most informative for model calibration?. <i>Journal of Hydrology</i> , 2017, 554, 613-622.	5.5	40
108	Evolution of soil solution aluminum during transport along a forested boreal hillslope. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.2	38

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109	Physical context for theoretical approaches to sediment transport magnitude–frequency analysis in alluvial channels. <i>Water Resources Research</i> , 2014, 50, 7900-7914.	4.1	38
110	The role of landscape properties, storage and evapotranspiration on variability in streamflow recessions in a boreal catchment. <i>Journal of Hydrology</i> , 2019, 570, 315-328.	5.5	38
111	Your work is my boundary condition!. <i>Journal of Hydrology</i> , 2019, 571, 235-243.	5.5	38
112	Distribution of soil moisture and groundwater levels at patch and catchment scales. <i>Agricultural and Forest Meteorology</i> , 1999, 98-99, 305-324.	4.8	37
113	Groundwater dynamics in a till hillslope: flow directions, gradients and delay. <i>Hydrological Processes</i> , 2011, 25, 1899-1909.	2.6	37
114	Appropriate temporal resolution of precipitation data for discharge modelling in pre-alpine catchments. <i>Hydrological Sciences Journal</i> , 2018, 63, 1-16.	2.6	37
115	Technical note: Representing glacier geometry changes in a semi-distributed hydrological model. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2211-2224.	4.9	37
116	Crowd-Based Observations of Riverine Macroplastic Pollution. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	37
117	Change in winter climate will affect dissolved organic carbon and water fluxes in mid-to-high latitude catchments. <i>Hydrological Processes</i> , 2013, 27, 700-709.	2.6	36
118	Streamflow characteristics from modeled runoff time series – importance of calibration criteria selection. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5443-5457.	4.9	36
119	Information content of stream level class data for hydrological model calibration. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4895-4905.	4.9	36
120	Value of different precipitation data for flood prediction in an alpine catchment: A Bayesian approach. <i>Journal of Hydrology</i> , 2018, 556, 961-971.	5.5	36
121	Is groundwater response timing in a pre-alpine catchment controlled more by topography or by rainfall?. <i>Hydrological Processes</i> , 2016, 30, 1036-1051.	2.6	35
122	Application of chlorite thermometry to estimation of formation temperature and redox conditions. <i>Clay Minerals</i> , 2018, 53, 143-158.	0.8	35
123	Testing the Waters: Mobile Apps for Crowdsourced Streamflow Data. <i>Eos</i> , 2018, 99, .	0.1	35
124	A retrospective on hydrological catchment modelling based on half a century with the HBV model. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 1371-1388.	4.9	35
125	Irrigania – a web-based game about sharing water resources. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2523-2530.	4.9	33
126	Predictability of low flow – An assessment with simulation experiments. <i>Journal of Hydrology</i> , 2014, 519, 1383-1393.	5.5	33

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127	Magic components—why quantifying rain, snowmelt, and icemelt in river discharge is not easy. <i>Hydrological Processes</i> , 2018, 32, 160-166.	2.6	33
128	Glacio—hydrological model calibration and evaluation. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1483.	7.0	33
129	Clarifying the role of pipe flow on shallow landslide initiation. <i>Hydrological Processes</i> , 2004, 18, 375-378.	2.6	30
130	Tracer Hydrology. , 2011, , 215-236.		30
131	How informative are stream level observations in different geographic regions?. <i>Hydrological Processes</i> , 2016, 30, 2498-2508.	2.6	30
132	Synthetic design hydrographs for ungauged catchments: a comparison of regionalization methods. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1993-2023.	4.0	30
133	Effective precipitation duration for runoff peaks based on catchment modelling. <i>Journal of Hydrology</i> , 2018, 556, 510-522.	5.5	30
134	Seasonal and runoff-related changes in total organic carbon concentrations in the River Åre, Northern Sweden. <i>Aquatic Sciences</i> , 2008, 70, 21-29.	1.5	29
135	pDCS: Security and Privacy Support for Data-Centric Sensor Networks. <i>IEEE Transactions on Mobile Computing</i> , 2009, 8, 1023-1038.	6.4	29
136	Water storage in a till catchment. I: Distributed modelling and relationship to runoff. <i>Hydrological Processes</i> , 2011, 25, 3937-3949.	2.6	29
137	Hydrological change detection using modeling: Half a century of runoff from four rivers in the Blue Nile Basin. <i>Water Resources Research</i> , 2013, 49, 3842-3851.	4.1	29
138	The CrowdWater game: A playful way to improve the accuracy of crowdsourced water level class data. <i>PLoS ONE</i> , 2019, 14, e0222579.	2.5	29
139	Aqua temporaria incognita. <i>Hydrological Processes</i> , 2020, 34, 5704-5711.	2.6	29
140	Evaporation and storage of intercepted rain analysed by comparing two models applied to a boreal forest. <i>Agricultural and Forest Meteorology</i> , 1999, 98-99, 595-604.	4.8	28
141	Continuous long-term measurements of soil—plant—atmosphere variables at an agricultural site. <i>Agricultural and Forest Meteorology</i> , 1999, 98-99, 75-102.	4.8	28
142	Sub-daily runoff predictions using parameters calibrated on the basis of data with a daily temporal resolution. <i>Journal of Hydrology</i> , 2017, 550, 399-411.	5.5	28
143	Assessing the degree of detail of temperature-based snow routines for runoff modelling in mountainous areas in central Europe. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4441-4461.	4.9	28
144	Ensemble modelling of nitrogen fluxes: data fusion for a Swedish meso-scale catchment. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 2383-2397.	4.9	27

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145	The long-term hydrology of East Africa's water tower: statistical change detection in the watersheds of the Abbay Basin. <i>Regional Environmental Change</i> , 2014, 14, 321-331.	2.9	27
146	Quantifying sensitivity to droughts – an experimental modeling approach. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 1371-1384.	4.9	27
147	Hydrological Modeling of Climate Change Impacts. , 0, , 1-20.		27
148	Hydrological model calibration with uncertain discharge data. <i>Hydrological Sciences Journal</i> , 2022, 67, 2441-2456.	2.6	27
149	Preface "Hydrology education in a changing world". <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1393-1399.	4.9	26
150	Dissipative quantum metrology in manybody systems of identical particles. <i>New Journal of Physics</i> , 2014, 16, 015023.	2.9	26
151	Bivariate analysis of floods in climate impact assessments. <i>Science of the Total Environment</i> , 2018, 616-617, 1392-1403.	8.1	26
152	HELPing FRIENDs in PUBs: charting a course for synergies within international water research programmes in gauged and ungauged basins. <i>Hydrological Processes</i> , 2006, 20, 1867-1874.	2.6	25
153	Nitrogen source apportionment modeling and the effect of land-use class related runoff contributions. <i>Hydrology Research</i> , 2007, 38, 317-331.	2.4	25
154	Hydrological response to warm and dry weather: do glaciers compensate?. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3245-3265.	4.9	24
155	Calculating terrain indices along streams: A new method for separating stream sides. <i>Water Resources Research</i> , 2010, 46, .	4.1	22
156	Value of uncertain streamflow observations for hydrological modelling. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5243-5257.	4.9	22
157	Value of Crowd-Based Water Level Class Observations for Hydrological Model Calibration. <i>Water Resources Research</i> , 2020, 56, e2019WR026108.	4.1	22
158	Flood-type trend analysis for alpine catchments. <i>Hydrological Sciences Journal</i> , 2020, 65, 1281-1299.	2.6	22
159	Regionalization for Ungauged Catchments – Lessons Learned From a Comparative Large-Sample Study. <i>Water Resources Research</i> , 2021, 57, e2021WR030437.	4.1	22
160	Can a regionalized model parameterisation be improved with a limited number of runoff measurements?. <i>Journal of Hydrology</i> , 2015, 529, 49-61.	5.5	21
161	Hydrological change modeling: Challenges and opportunities. <i>Hydrological Processes</i> , 2016, 30, 4966-4971.	2.6	21
162	Identification of Flood Reactivity Regions via the Functional Clustering of Hydrographs. <i>Water Resources Research</i> , 2018, 54, 1852-1867.	4.1	21

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163	Accuracy of crowdsourced streamflow and stream level class estimates. <i>Hydrological Sciences Journal</i> , 2020, 65, 823-841.	2.6	21
164	The role of soil pH in linking groundwater flow and plant species density in boreal forest landscapes. <i>Ecography</i> , 2006, 29, 515-524.	4.6	20
165	Understanding conditions behind speleothem formation in Korallgrottan, northwestern Sweden. <i>Journal of Hydrology</i> , 2007, 347, 13-22.	5.5	20
166	Test of statistical means for the extrapolation of soil depth point information using overlays of spatial environmental data and bootstrapping techniques. <i>Hydrological Processes</i> , 2009, 23, 3017-3029.	2.6	20
167	Using landscape characteristics to define an adjusted distance metric for improving kriging interpolations. <i>International Journal of Geographical Information Science</i> , 2010, 24, 723-740.	4.6	20
168	True colors – experimental identification of hydrological processes at a hillslope prone to slide. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 875-892.	4.9	20
169	Rapid transformation of inorganic to organic and plant-available phosphorous in soils of a glacier forefield. <i>Geoderma</i> , 2012, 189-190, 215-226.	5.2	19
170	Measuring the significance of a divide to local drainage patterns. <i>International Journal of Geographical Information Science</i> , 2013, 27, 1453-1468.	4.6	18
171	Conceptual Modelling to Assess Hydrological Impacts and Evaluate Environmental Flow Scenarios in Montane River Systems Regulated for Hydropower. <i>River Research and Applications</i> , 2015, 31, 1066-1081.	1.6	18
172	Value of a Limited Number of Discharge Observations for Improving Regionalization: A Large-Sample Study Across the United States. <i>Water Resources Research</i> , 2019, 55, 363-377.	4.1	18
173	Distributed conceptual modelling in a Swedish lowland catchment: a multi-criteria model assessment. <i>Hydrology Research</i> , 2013, 44, 318-333.	2.4	17
174	Water storage dynamics in a till hillslope: the foundation for modeling flows and turnover times. <i>Hydrological Processes</i> , 2017, 31, 4-14.	2.6	17
175	When should stream water be sampled to be most informative for event-based, multi-criteria model calibration?. <i>Hydrology Research</i> , 2017, 48, 1566-1584.	2.4	16
176	Validation and Over-Parameterization – Experiences from Hydrological Modeling. <i>Simulation Foundations, Methods and Applications</i> , 2019, , 811-834.	0.0	15
177	Sensitivity of discharge projections to potential evapotranspiration estimation in Northern Tunisia. <i>Regional Environmental Change</i> , 2020, 20, 1.	2.9	15
178	Do stream water solute concentrations reflect when connectivity occurs in a small, pre-Alpine headwater catchment?. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3381-3398.	4.9	15
179	Historical glacier outlines from digitized topographic maps of the Swiss Alps. <i>Earth System Science Data</i> , 2018, 10, 805-814.	8.8	15
180	An Approach for Including Consideration of Stream Water Dissolved Organic Carbon in Long Term Forest Planning. <i>Ambio</i> , 2009, 38, 387-394.	5.7	14

#	ARTICLE	IF	CITATIONS
181	Effect of DEM-smoothing and -aggregation on topographically-based flow directions and catchment boundaries. <i>Journal of Hydrology</i> , 2021, 602, 126717.	5.5	14
182	Runoff generation in a pre-alpine catchment: A discussion between a tracer and a shallow groundwater hydrologist. <i>Cuadernos De Investigacion Geografica</i> , 2018, 44, 429-452.	1.1	14
183	Soil Information in Hydrologic Models. , 2012, , 515-536.		13
184	Snow and Ice in the Hydrosphere. , 2015, , 99-137.		13
185	Robustness of flood-model calibration using single and multiple events. <i>Hydrological Sciences Journal</i> , 2020, 65, 842-853.	2.6	13
186	Maximum likelihood parameter estimation for fitting bedload rating curves. <i>Water Resources Research</i> , 2015, 51, 281-301.	4.1	12
187	Gauging ungauged catchments " Active learning for the timing of point discharge observations in combination with continuous water level measurements. <i>Journal of Hydrology</i> , 2021, 598, 126448.	5.5	12
188	Representative sets of design hydrographs for ungauged catchments: A regional approach using probabilistic region memberships. <i>Advances in Water Resources</i> , 2018, 112, 235-244.	3.8	11
189	Why the transformation of the risk message is a healthy sign: a model of the reception of warning messages. <i>Health, Risk and Society</i> , 2014, 16, 277-294.	1.9	10
190	Influence of hydro-meteorological data spatial aggregation on streamflow modelling. <i>Journal of Hydrology</i> , 2016, 541, 1212-1220.	5.5	10
191	Utilization of Global Precipitation Datasets in Data Limited Regions: A Case Study of Kilombero Valley, Tanzania. <i>Atmosphere</i> , 2017, 8, 246.	2.3	10
192	What is the best time to take stream isotope samples for event-based model calibration?. <i>Journal of Hydrology</i> , 2019, 577, 123950.	5.5	10
193	Evaluating the long short-term memory (LSTM) network for discharge prediction under changing climate conditions. <i>Hydrology Research</i> , 2022, 53, 657-667.	2.4	10
194	A toy model for monthly river flow forecasting. <i>Journal of Hydrology</i> , 2012, 452-453, 226-231.	5.5	9
195	Learning about water resource sharing through game play. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4079-4091.	4.9	9
196	The quest for an improved dialog between modeler and experimentalist. <i>Water Science and Application</i> , 2003, , 301-315.	0.0	9
197	Downsizing parameter ensembles for simulations of rare floods. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 3521-3549.	3.7	9
198	A large-sample investigation into uncertain climate change impacts on high flows across Great Britain. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 5535-5554.	4.9	9

#	ARTICLE	IF	CITATIONS
199	Hydroclimatic and hydrochemical controls on Plecoptera diversity and distribution in northern freshwater ecosystems. <i>Hydrobiologia</i> , 2012, 693, 39-53.	2.0	8
200	Flood prediction using parameters calibrated on limited discharge data and uncertain rainfall scenarios. <i>Hydrological Sciences Journal</i> , 2020, 65, 1512-1524.	2.6	8
201	Incorporating landscape characteristics in a distance metric for interpolating between observations of stream water chemistry. <i>Hydrology and Earth System Sciences</i> , 2008, 12, 1229-1239.	4.9	8
202	Risks and opportunities for a Swiss hydroelectricity company in a changing climate. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3815-3833.	4.9	8
203	Classification of Two Swedish Forest Streams in Accordance with the European Union Water Framework Directive. <i>Ambio</i> , 2009, 38, 394-400.	5.7	7
204	Definitions of climatological and discharge days: do they matter in hydrological modelling?. <i>Hydrological Sciences Journal</i> , 2018, 63, 836-844.	2.6	7
205	Assessing the Sampling Quality of a Low-Tech Low-Budget Volume-Based Rainfall Sampler for Stable Isotope Analysis. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	7
206	Hydrological trends and the evolution of catchment research in the Alptal valley, central Switzerland. <i>Hydrological Processes</i> , 2021, 35, e14113.	2.6	7
207	Training citizen scientists through an online game developed for data quality control. <i>Journal of Plant Pathology</i> , 2020, 3, 109-126.	1.2	7
208	Landscape Element Contributions to Storm Runoff. , 2005, , .		6
209	The Role of Prosocialness and Trust in the Consumption of Water as a Limited Resource. <i>Frontiers in Psychology</i> , 2017, 8, 694.	2.2	6
210	Effects of Spatial Variability in the Groundwater Isotopic Composition on Hydrograph Separation Results for a Pre-Alpine Headwater Catchment. <i>Water Resources Research</i> , 2020, 56, e2019WR026855.	4.1	6
211	When good signatures go bad: Applying hydrologic signatures in large sample studies. <i>Hydrological Processes</i> , 2023, 37, .	2.6	6
212	Comment on "On the calibration and verification of two-dimensional, distributed, Hortonian, continuous watershed models" by Sharika U. S. Senarath et al.. <i>Water Resources Research</i> , 2001, 37, 3393-3395.	4.1	5
213	Qualitative soil moisture assessment in semi-arid Africa " the role of experience and training on inter-rater reliability. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3505-3516.	4.9	5
214	Change in streamflow response in unregulated catchments in Sweden over the last century. <i>Water Resources Research</i> , 2016, 52, 5847-5867.	4.1	5
215	Multi-model data fusion as a tool for PUB: example in a Swedish mesoscale catchment. <i>Advances in Geosciences</i> , 0, 29, 43-50.	12.0	5
216	Evaluating the effects of alternative model structures on dynamic storage simulation in heterogeneous boreal catchments. <i>Hydrology Research</i> , 2022, 53, 562-583.	2.4	5

#	ARTICLE	IF	CITATIONS
217	Preface "Towards holistic studies of the Earth's Critical Zone: hydrogeology perspectives". <i>Hydrology and Earth System Sciences</i> , 2010, 14, 479-480.	4.9	4
218	On the risk of obtaining misleading results by pooling streamflow data for trend analyses. <i>Water Resources Research</i> , 2012, 48, .	4.1	4
219	Analysis of hydrological seasonality across northern catchments using monthly precipitation"runoff polygon metrics. <i>Hydrological Sciences Journal</i> , 2014, 59, 56-72.	2.6	4
220	The Maimai <sc>M8</sc> experimental catchment database: Forty years of process"based research on steep, wet hillslopes. <i>Hydrological Processes</i> , 2021, 35, e14112.	2.6	4
221	Understanding Top"of"Atmosphere Flux Bias in the AeroCom Phase III Models: A Clear"Sky Perspective. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002584.	3.7	4
222	Representation of Bi"Directional Fluxes Between Groundwater and Surface Water in a Bucket"Type Hydrological Model. <i>Water Resources Research</i> , 2021, 57, e2020WR028835.	4.1	4
223	Comprehensive space"time hydrometeorological simulations for estimating very rare floods at multiple sites in a large river basin. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 2891-2920.	3.7	4
224	Bridge over changing waters"Citizen science for detecting the impacts of climate change on water. <i>PLOS Climate</i> , 2022, 1, e0000088.	3.2	4
225	Phase diagram of a general biaxial nematic model based on density of states computation. <i>Liquid Crystals</i> , 2018, 45, 2197-2213.	2.3	3
226	Effect of Observation Errors on the Timing of the Most Informative Isotope Samples for Event-Based Model Calibration. <i>Hydrology</i> , 2018, 5, 4.	3.0	3
227	Formation and decay of peat bogs in the vegetable belt of Switzerland. <i>Swiss Journal of Geosciences</i> , 2021, 114, .	1.3	3
228	What"TM's the Best Way to Responsibly Collect Ocean Data?. <i>Eos</i> , 2018, 99, .	0.1	2
229	Screening bacterial strains for production of maltotriose trehalose trehalohydrolase and maltotriose trehalose synthase. <i>Journal of Vietnamese Environment</i> , 2018, 9, 55-60.	0.2	2
230	The CH-IRP data set: a decade of fortnightly data on <math>H_2O</math> and <math>^{18}O</math> in streamflow and precipitation in Switzerland. <i>Earth System Science Data</i> , 2020, 12, 3057-3066.	8.8	2
231	Hydrological Impacts of Projected Climate Change on Northern Tunisian Headwater Catchments"An Ensemble Approach Addressing Uncertainties. <i>Climate Change Management</i> , 2022, , 499-519.	0.0	2
232	Contribution to the knowledge on distribution, abundance, and species richness of hoverflies (Diptera: Syrphidae) in Turkey. <i>International Journal of Tropical Insect Science</i> , 0, , 1.	1.1	2
233	Shallow-groundwater-level time series and a groundwater chemistry survey from a boreal headwater catchment, Krycklan, Sweden. <i>Earth System Science Data</i> , 2023, 15, 1779-1800.	8.8	2
234	Are temporary stream observations useful for calibrating a lumped hydrological model?. <i>Journal of Hydrology</i> , 2024, 632, 130686.	5.5	2

#	ARTICLE	IF	CITATIONS
235	Getting your money's worth: Testing the value of data for hydrological model calibration. Hydrological Processes, 2024, 38, .	2.6	2
236	Temporal and spatial variation in shallow groundwater gradients in a boreal headwater catchment. Journal of Hydrology, 2023, 626, 130301.	5.5	1
237	Numerical Calculation of Temperature and Microstructure for Induction Surface Hardening. Applied Mechanics and Materials, 0, 698, 251-257.	0.1	0
238	Comparing Option Pricing Methods in q. Wilmott Magazine, 2020, 2020, 58-69.	0.2	0
239	Somnolence and Periodic Limb Movements due to Treatment with Baclofen. Journal of Sleep Sciences, 0, , .	0.0	0
240	Coding tool research for next generation AOM coding standard. , 2022, , .		0
241	Automatic water-level class estimation from repeated crowd-based photos of streams. Hydrological Sciences Journal, 2023, 68, 1826-1840.	2.6	0
242	Local and network scale influence of peatlands on boreal catchment response to rainfall events. Hydrological Processes, 2023, 37, .	2.6	0
243	Assessment of the Value of Remotely Sensed Surface Water Extent Data for the Calibration of a Lumped Hydrological Model. Water Resources Research, 2023, 59, .	4.1	0
244	Spatiotemporal dynamics of soil moisture and stream states based on qualitative methods. Hydrological Processes, 2024, 38, .	2.6	0
245	Large-sample hydrology "a few camels or a whole caravan?". Hydrology and Earth System Sciences, 2024, 28, 4219-4237.	4.9	0