

Jan Seibert

List of Publications by Year in descending order

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Version: 2024-02-01

226
papers

17,855
citations

14655

66
h-index

17105

122
g-index

305
all docs

305
docs citations

305
times ranked

13079
citing authors

#	ARTICLE	IF	CITATIONS
1	Bias correction of regional climate model simulations for hydrological climate-change impact studies: Review and evaluation of different methods. <i>Journal of Hydrology</i> , 2012, 456-457, 12-29.	5.4	1,315
2	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	624
3	The role of topography on catchment-scale water residence time. <i>Water Resources Research</i> , 2005, 41, .	4.2	571
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.	4.2	476
5	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	2.6	474
6	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	369
7	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	306
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	300
9	Regionalisation of parameters for a conceptual rainfall-runoff model. <i>Agricultural and Forest Meteorology</i> , 1999, 98-99, 279-293.	4.8	298
10	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	288
11	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	282
12	How old is streamwater? Open questions in catchment transit time conceptualization, modelling and analysis. <i>Hydrological Processes</i> , 2010, 24, 1745-1754.	2.6	276
13	A new triangular multiple flow direction algorithm for computing upslope areas from gridded digital elevation models. <i>Water Resources Research</i> , 2007, 43, .	4.2	275
14	Topographical influences on soil properties in boreal forests. <i>Geoderma</i> , 2007, 141, 139-148.	5.1	251
15	<i>Aqua Incognita</i> : the unknown headwaters. <i>Hydrological Processes</i> , 2008, 22, 1239-1242.	2.6	246
16	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	226
17	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.	5.4	223
18	How does landscape structure influence catchment transit time across different geomorphic provinces?. <i>Hydrological Processes</i> , 2009, 23, 945-953.	2.6	207

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19	Calibration of hydrological models using flow-duration curves. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 2205-2227.	4.9	203
20	The role of catchment scale and landscape characteristics for runoff generation of boreal streams. <i>Journal of Hydrology</i> , 2007, 344, 198-209.	5.4	202
21	Estimation of Parameter Uncertainty in the HBV Model. <i>Hydrology Research</i> , 1997, 28, 247-262.	2.7	201
22	Effects of DEM resolution on the calculation of topographical indices: TWI and its components. <i>Journal of Hydrology</i> , 2007, 347, 79-89.	5.4	201
23	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	197
24	Gauging the ungauged basin: how many discharge measurements are needed?. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 883-892.	4.9	196
25	Robust changes and sources of uncertainty in the projected hydrological regimes of Swiss catchments. <i>Water Resources Research</i> , 2014, 50, 7541-7562.	4.2	182
26	A new topographic index to quantify downslope controls on local drainage. <i>Water Resources Research</i> , 2004, 40, .	4.2	177
27	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	177
28	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, .	4.2	176
29	Scale effects on headwater catchment runoff timing, flow sources, and groundwater-streamflow relations. <i>Water Resources Research</i> , 2004, 40, .	4.2	176
30	Plant Species Numbers Predicted by a Topography-based Groundwater Flow Index. <i>Ecosystems</i> , 2005, 8, 430-441.	3.4	160
31	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	160
32	Distributed assessment of contributing area and riparian buffering along stream networks. <i>Water Resources Research</i> , 2003, 39, .	4.2	147
33	On the relationships between catchment scale and streamwater mean residence time. <i>Hydrological Processes</i> , 2003, 17, 175-181.	2.6	144
34	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.	10.0	138
35	Reliability of Model Predictions Outside Calibration Conditions. <i>Hydrology Research</i> , 2003, 34, 477-492.	2.7	135
36	Groundwater dynamics along a hillslope: A test of the steady state hypothesis. <i>Water Resources Research</i> , 2003, 39, .	4.2	133

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37	Does model performance improve with complexity? A case study with three hydrological models. <i>Journal of Hydrology</i> , 2015, 523, 147-159.	5.4	132
38	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	129
39	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	128
40	Cross-regional prediction of long-term trajectory of stream water DOC response to climate change. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	127
41	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.	3.3	121
42	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	115
43	Evaluating model performance: towards a non-parametric variant of the Kling-Gupta efficiency. <i>Hydrological Sciences Journal</i> , 2018, 63, 1941-1953.	2.6	113
44	On the need for benchmarks in hydrological modelling. <i>Hydrological Processes</i> , 2001, 15, 1063-1064.	2.6	112
45	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.	4.2	109
46	Modeling spatial patterns of saturated areas: An evaluation of different terrain indices. <i>Water Resources Research</i> , 2004, 40, .	4.2	107
47	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	106
48	On the value of glacier mass balances for hydrological model calibration. <i>Journal of Hydrology</i> , 2010, 385, 238-246.	5.4	105
49	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	104
50	Inter-comparison of hydro-climatic regimes across northern catchments: synchronicity, resistance and resilience. <i>Hydrological Processes</i> , 2010, 24, 3591-3602.	2.6	103
51	Catchment water storage variation with elevation. <i>Hydrological Processes</i> , 2017, 31, 2000-2015.	2.6	103
52	Accelerating advances in continental domain hydrologic modeling. <i>Water Resources Research</i> , 2015, 51, 10078-10091.	4.2	102
53	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	101
54	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	94

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55	Multi-criterial validation of TOPMODEL in a mountainous catchment. <i>Hydrological Processes</i> , 1999, 13, 1603-1620.	2.6	93
56	Floodâ€”type classification in mountainous catchments using crisp and fuzzy decision trees. <i>Water Resources Research</i> , 2015, 51, 7959-7976.	4.2	88
57	A test of TOPMODEL'a ability to predict spatially distributed groundwater levels. <i>Hydrological Processes</i> , 1997, 11, 1131-1144.	2.6	87
58	Simulating interactions between saturated and unsaturated storage in a conceptual runoff model. <i>Hydrological Processes</i> , 2003, 17, 379-390.	2.6	87
59	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
60	Upper and lower benchmarks in hydrological modelling. <i>Hydrological Processes</i> , 2018, 32, 1120-1125.	2.6	85
61	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.	5.4	84
62	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.	5.4	82
63	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	80
64	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
65	A drought index accounting for snow. <i>Water Resources Research</i> , 2014, 50, 7861-7872.	4.2	78
66	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.	2.7	73
67	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.	4.2	72
68	Stable oxygen and hydrogen isotopes in sub-Arctic lake waters from northern Sweden. <i>Journal of Hydrology</i> , 2009, 376, 143-151.	5.4	70
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	69
70	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	67
71	Conceptualization in catchment modelling: simply learning?. <i>Hydrological Processes</i> , 2008, 22, 2389-2393.	2.6	65
72	Flood type specific construction of synthetic design hydrographs. <i>Water Resources Research</i> , 2017, 53, 1390-1406.	4.2	65

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73	Toward catchment hydro-geochemical theories. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1495.	6.5	65
74	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	64
75	Bivariate return periods and their importance for flood peak and volume estimation. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 819-833.	6.5	63
76	Snow redistribution for the hydrological modeling of alpine catchments. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1232.	6.5	63
77	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	63
78	Virtual Staff Gauges for Crowd-Based Stream Level Observations. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	63
79	Controls on snowmelt water mean transit times in northern boreal catchments. <i>Hydrological Processes</i> , 2010, 24, 1672-1684.	2.6	62
80	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, .	4.2	62
81	Hillslope-riparian-stream connectivity and flow directions at the Panola Mountain Research Watershed. <i>Hydrological Processes</i> , 2015, 29, 3556-3574.	2.6	62
82	Gauging the Ungauged Basin: Relative Value of Soft and Hard Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	1.9	60
83	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.	4.2	60
84	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	60
85	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.	4.2	59
86	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.	1.5	58
87	Landscape controls on spatiotemporal discharge variability in a boreal catchment. <i>Water Resources Research</i> , 2016, 52, 6541-6556.	4.2	58
88	Specific discharge variability in a boreal landscape. <i>Water Resources Research</i> , 2012, 48, .	4.2	56
89	Catchments on the cusp? Structural and functional change in northern ecohydrology. <i>Hydrological Processes</i> , 2013, 27, 766-774.	2.6	55
90	Comparison of threshold hydrologic response across northern catchments. <i>Hydrological Processes</i> , 2015, 29, 3575-3591.	2.6	55

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91	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	54
92	Forest Harvest Increases Runoff Most during Low Flows in Two Boreal Streams. <i>Ambio</i> , 2009, 38, 357-363.	5.5	53
93	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.	5.4	52
94	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.	5.4	52
95	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.	4.2	52
96	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	50
97	Spatial heterogeneity of the spring flood acid pulse in a boreal stream network. <i>Science of the Total Environment</i> , 2008, 407, 708-722.	8.0	48
98	Impact of social preparedness on flood early warning systems. <i>Water Resources Research</i> , 2017, 53, 522-534.	4.2	47
99	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
100	Bias correction for hydrological impact studies "beyond the daily perspective. <i>Hydrological Processes</i> , 2014, 28, 4823-4828.	2.6	46
101	Model Calibration Criteria for Estimating Ecological Flow Characteristics. <i>Water (Switzerland)</i> , 2015, 7, 2358-2381.	2.7	44
102	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	44
103	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	44
104	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
105	Contributing sources to baseflow in pre-Alpine headwaters using spatial snapshot sampling. <i>Hydrological Processes</i> , 2015, 29, 5321-5336.	2.6	43
106	Pre-event water contributions to runoff events of different magnitude in pre-alpine headwaters. <i>Hydrology Research</i> , 2017, 48, 28-47.	2.7	43
107	Variability of groundwater levels and total organic carbon in the riparian zone of a boreal catchment. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	42
108	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

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109	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
110	Evolution of soil solution aluminum during transport along a forested boreal hillslope. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	38
111	Groundwater dynamics in a till hillslope: flow directions, gradients and delay. <i>Hydrological Processes</i> , 2011, 25, 1899-1909.	2.6	37
112	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.	5.4	37
113	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
114	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	36
115	Value of different precipitation data for flood prediction in an alpine catchment: A Bayesian approach. <i>Journal of Hydrology</i> , 2018, 556, 961-971.	5.4	36
116	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	35
117	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	35
118	Hydrological Modeling to Evaluate Climate Model Simulations and Their Bias Correction. <i>Journal of Hydrometeorology</i> , 2018, 19, 1321-1337.	1.9	35
119	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.	5.4	35
120	Information content of stream level class data for hydrological model calibration. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4895-4905.	4.9	34
121	Crowd-Based Observations of Riverine Macroplastic Pollution. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	34
122	Testing the Waters: Mobile Apps for Crowdsourced Streamflow Data. <i>Eos</i> , 2018, 99, .	0.1	34
123	New Approach to the Measurement of Interception Evaporation. <i>Journal of Atmospheric and Oceanic Technology</i> , 1997, 14, 1023-1035.	1.3	33
124	Sensing with boots and trousers – qualitative field observations of shallow soil moisture patterns. <i>Hydrological Processes</i> , 2012, 26, 4112-4120.	2.6	33
125	Predictability of low flow – An assessment with simulation experiments. <i>Journal of Hydrology</i> , 2014, 519, 1383-1393.	5.4	33
126	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	33

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127	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	33
128	Your work is my boundary condition!. <i>Journal of Hydrology</i> , 2019, 571, 235-243.	5.4	33
129	Irrigania – a web-based game about sharing water resources. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2523-2530.	4.9	31
130	The assumption of uniform specific discharge: unsafe at any time?. <i>Hydrological Processes</i> , 2016, 30, 3978-3988.	2.6	31
131	Magic components – why quantifying rain, snowmelt, and icemelt in river discharge is not easy. <i>Hydrological Processes</i> , 2018, 32, 160-166.	2.6	31
132	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	31
133	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
134	Effective precipitation duration for runoff peaks based on catchment modelling. <i>Journal of Hydrology</i> , 2018, 556, 510-522.	5.4	30
135	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
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.	4.2	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	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	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	Tracer Hydrology. , 2011, , 215-236.		28
143	How informative are stream level observations in different geographic regions?. <i>Hydrological Processes</i> , 2016, 30, 2498-2508.	2.6	28
144	Glacio – hydrological model calibration and evaluation. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1483.	6.5	28

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145	Quantifying sensitivity to droughts – an experimental modeling approach. Hydrology and Earth System Sciences, 2015, 19, 1371-1384.	4.9	27
146	Aqua temporaria incognita. Hydrological Processes, 2020, 34, 5704-5711.	2.6	27
147	Ensemble modelling of nitrogen fluxes: data fusion for a Swedish meso-scale catchment. Hydrology and Earth System Sciences, 2010, 14, 2383-2397.	4.9	26
148	Modelling rating curves using remotely sensed LiDAR data. Hydrological Processes, 2012, 26, 1427-1434.	2.6	26
149	The long-term hydrology of East Africa’s water tower: statistical change detection in the watersheds of the Abbay Basin. Regional Environmental Change, 2014, 14, 321-331.	2.9	26
150	Sub-daily runoff predictions using parameters calibrated on the basis of data with a daily temporal resolution. Journal of Hydrology, 2017, 550, 399-411.	5.4	26
151	Hydrological model calibration with uncertain discharge data. Hydrological Sciences Journal, 2022, 67, 2441-2456.	2.6	26
152	Nitrogen source apportionment modeling and the effect of land-use class related runoff contributions. Hydrology Research, 2007, 38, 317-331.	2.7	25
153	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.	2.6	24
154	Preface "Hydrology education in a changing world". Hydrology and Earth System Sciences, 2013, 17, 1393-1399.	4.9	24
155	Bivariate analysis of floods in climate impact assessments. Science of the Total Environment, 2018, 616-617, 1392-1403.	8.0	24
156	Reducing systematic errors in rainfall measurements using a new type of gauge. Agricultural and Forest Meteorology, 1999, 98-99, 341-348.	4.8	23
157	Assessing the degree of detail of temperature-based snow routines for runoff modelling in mountainous areas in central Europe. Hydrology and Earth System Sciences, 2020, 24, 4441-4461.	4.9	23
158	Calculating terrain indices along streams: A new method for separating stream sides. Water Resources Research, 2010, 46, .	4.2	22
159	Flood-type trend analysis for alpine catchments. Hydrological Sciences Journal, 2020, 65, 1281-1299.	2.6	22
160	Can a regionalized model parameterisation be improved with a limited number of runoff measurements?. Journal of Hydrology, 2015, 529, 49-61.	5.4	21
161	Hydrological change modeling: Challenges and opportunities. Hydrological Processes, 2016, 30, 4966-4971.	2.6	21
162	Value of uncertain streamflow observations for hydrological modelling. Hydrology and Earth System Sciences, 2018, 22, 5243-5257.	4.9	21

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163	Value of Crowdâ€Based Water Level Class Observations for Hydrological Model Calibration. <i>Water Resources Research</i> , 2020, 56, e2019WR026108.	4.2	21
164	Quality and timing of crowdâ€based water level class observations. <i>Hydrological Processes</i> , 2020, 34, 4365-4378.	2.6	21
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