

# Chris Soulsby

## List of Publications by Year in descending order

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Version: 2024-02-01

314  
papers

15,243  
citations

11608

70  
h-index

33814

99  
g-index

321  
all docs

321  
docs citations

321  
times ranked

8149  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the role of location and scale of Nature Based Solutions for the enhancement of low flows. <i>International Journal of River Basin Management</i> , 2023, 21, 743-758.	1.5	6
2	The Rhine River basin. , 2022, , 333-391.		16
3	Disentangling the Influence of Landscape Characteristics, Hydroclimatic Variability and Land Management on Surface Water NO <sub>3</sub> Dynamics: Spatially Distributed Modeling Over 30yr in a Lowland Mixed Land Use Catchment. <i>Water Resources Research</i> , 2022, 58, .	1.7	9
4	Functional Multi-Scale Integration of Agricultural Nitrogen Budgets Into Catchment Water Quality Modeling. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	2
5	Visualizing catchment-scale spatio-temporal dynamics of storage-flux-age interactions using a tracer-aided ecohydrological model. <i>Hydrological Processes</i> , 2022, 36, .	1.1	0
6	Critical Zone Response Times and Water Age Relationships Under Variable Catchment Wetness States: Insights Using a Tracer-Aided Ecohydrological Model. <i>Water Resources Research</i> , 2022, 58, .	1.7	5
7	Estimates of water partitioning in complex urban landscapes with isotope-aided ecohydrological modelling. <i>Hydrological Processes</i> , 2022, 36, .	1.1	7
8	Using water age to explore hydrological processes in contrasting environments. <i>Hydrological Processes</i> , 2022, 36, .	1.1	0
9	Xylem water in riparian willow trees (&lt;i>Salix alba</i>) reveals shallow sources of root water uptake by in situ monitoring of stable water isotopes. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2073-2092.	1.9	13
10	Modelling temporal variability of in situ soil water and vegetation isotopes reveals ecohydrological couplings in a riparian willow plot. <i>Biogeosciences</i> , 2022, 19, 2465-2485.	1.3	11
11	Assessing land use influences on isotopic variability and stream water ages in urbanising rural catchments. <i>Isotopes in Environmental and Health Studies</i> , 2022, 58, 277-300.	0.5	4
12	Seasonal variations in soil-plant interactions in contrasting urban green spaces: Insights from water stable isotopes. <i>Journal of Hydrology</i> , 2022, 612, 127998.	2.3	12
13	Tracer-aided identification of hydrological and biogeochemical controls on in-stream water quality in a riparian wetland. <i>Water Research</i> , 2022, 222, 118860.	5.3	5
14	Linking nitrate dynamics to water age in underground conduit flows in a karst catchment. <i>Journal of Hydrology</i> , 2021, 596, 125699.	2.3	10
15	Using soil water isotopes to infer the influence of contrasting urban green space on ecohydrological partitioning. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 927-943.	1.9	19
16	Catchment Functioning Under Prolonged Drought Stress: Tracer-Aided Ecohydrological Modeling in an Intensively Managed Agricultural Catchment. <i>Water Resources Research</i> , 2021, 57, e2020WR029094.	1.7	11
17	Quantifying the effects of land use and model scale on water partitioning and water ages using tracer-aided ecohydrological models. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2239-2259.	1.9	43
18	Using isotopes to understand landscape-scale connectivity in a groundwater-dominated, lowland catchment under drought conditions. <i>Hydrological Processes</i> , 2021, 35, e14197.	1.1	20

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19	Quantifying the effects of urban green space on water partitioning and ages using an isotope-based ecohydrological model. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3635-3652.	1.9	28
20	Effects of streamflow isotope sampling strategies on the calibration of a tracer-aided rainfall-runoff model. <i>Hydrological Processes</i> , 2021, 35, e14223.	1.1	13
21	A longer-term perspective on soil moisture, groundwater and stream flow response to the 2018 drought in an experimental catchment in the Scottish Highlands. <i>Hydrological Processes</i> , 2021, 35, e14206.	1.1	10
22	Modelling ecohydrological feedbacks in forest and grassland plots under a prolonged drought anomaly in Central Europe 2018-2020. <i>Hydrological Processes</i> , 2021, 35, e14325.	1.1	11
23	Structural changes to forests during regeneration affect water flux partitioning, water ages and hydrological connectivity: Insights from tracer-aided ecohydrological modelling. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 4861-4886.	1.9	12
24	Spatio-temporal variations in stable isotopes in peri-urban catchments: A preliminary assessment of potential and challenges in assessing streamflow sources. <i>Journal of Hydrology</i> , 2021, 600, 126685.	2.3	10
25	Isotope hydrology and water sources in a heavily urbanized stream. <i>Hydrological Processes</i> , 2021, 35, e14377.	1.1	12
26	Combining static and portable Cosmic ray neutron sensor data to assess catchment scale heterogeneity in soil water storage and their integrated role in catchment runoff response. <i>Journal of Hydrology</i> , 2021, 601, 126659.	2.3	4
27	Using StorAge Selection (SAS) functions to understand flow paths and age distributions in contrasting karst groundwater systems. <i>Journal of Hydrology</i> , 2021, 602, 126785.	2.3	12
28	Hydroclimatic variability and riparian wetland restoration control the hydrology and nutrient fluxes in a lowland agricultural catchment. <i>Journal of Hydrology</i> , 2021, 603, 126904.	2.3	11
29	Stable isotopes of water reveal differences in plant-soil water relationships across northern environments. <i>Hydrological Processes</i> , 2021, 35, e14023.	1.1	51
30	Riparian wetland rehabilitation and beaver re-colonization impacts on hydrological processes and water quality in a lowland agricultural catchment. <i>Science of the Total Environment</i> , 2020, 699, 134302.	3.9	54
31	Using isotopes to understand the evolution of water ages in disturbed mixed land-use catchments. <i>Hydrological Processes</i> , 2020, 34, 972-990.	1.1	17
32	An agent-based model that simulates the spatio-temporal dynamics of sources and transfer mechanisms contributing faecal indicator organisms to streams. Part 1: Background and model description. <i>Journal of Environmental Management</i> , 2020, 270, 110903.	3.8	5
33	Contrasting storage-flux-age interactions revealed by catchment inter-comparison using a tracer-aided runoff model. <i>Journal of Hydrology</i> , 2020, 590, 125226.	2.3	7
34	Water-energy-ecosystem nexus in small run-of-river hydropower: Optimal design and policy. <i>Applied Energy</i> , 2020, 280, 115936.	5.1	15
35	Critical Zone Storage Controls on the Water Ages of Ecohydrological Outputs. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088897.	1.5	31
36	Lessons from the 2018 drought for management of local water supplies in upland areas: A tracer-based assessment. <i>Hydrological Processes</i> , 2020, 34, 4190-4210.	1.1	16

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37	Modelling non-stationary water ages in a tropical rainforest: A preliminary spatially distributed assessment. <i>Hydrological Processes</i> , 2020, 34, 4776-4793.	1.1	12
38	An agent-based model that simulates the spatio-temporal dynamics of sources and transfer mechanisms contributing faecal indicator organisms to streams. Part 2: Application to a small agricultural catchment. <i>Journal of Environmental Management</i> , 2020, 270, 110905.	3.8	5
39	Using hysteretic behaviour and hydrograph classification to identify hydrological function across the "hillslope" depression-stream continuum in a karst catchment. <i>Hydrological Processes</i> , 2020, 34, 3464-3480.	1.1	8
40	Isotope-aided modelling of ecohydrologic fluxes and water ages under mixed land use in Central Europe: The 2018 drought and its recovery. <i>Hydrological Processes</i> , 2020, 34, 3406-3425.	1.1	33
41	Characterizing the variability of transit time distributions and young water fractions in karst catchments using flux tracking. <i>Hydrological Processes</i> , 2020, 34, 3156-3174.	1.1	16
42	Coupled hydrological and biogeochemical modelling of nitrogen transport in the karst critical zone. <i>Science of the Total Environment</i> , 2020, 732, 138902.	3.9	31
43	Quantifying the relative importance of stock level, river temperature and discharge on the abundance of juvenile Atlantic salmon ( <i>Salmo salar</i> ). <i>Ecohydrology</i> , 2020, 13, e2231.	1.1	9
44	Urban water systems under climate stress: An isotopic perspective from Berlin, Germany. <i>Hydrological Processes</i> , 2020, 34, 3758-3776.	1.1	30
45	Headwaters drive streamflow and lowland tracer export in a large-scale humid tropical catchment. <i>Hydrological Processes</i> , 2020, 34, 3824-3841.	1.1	13
46	Opportunities and challenges in using catchment-scale storage estimates from cosmic ray neutron sensors for rainfall-runoff modelling. <i>Journal of Hydrology</i> , 2020, 586, 124878.	2.3	27
47	Using isotopes to incorporate tree water storage and mixing dynamics into a distributed ecohydrologic modelling framework. <i>Ecohydrology</i> , 2020, 13, e2201.	1.1	51
48	Improving the Jarvis-type model with modified temperature and radiation functions for sap flow simulations. <i>Journal of Hydrology</i> , 2020, 587, 124981.	2.3	21
49	Using storage selection functions to assess mixing patterns and water ages of soil water, evaporation and transpiration. <i>Advances in Water Resources</i> , 2020, 141, 103586.	1.7	8
50	Using water stable isotopes to understand evaporation, moisture stress, and re-wetting in catchment forest and grassland soils of the summer drought of 2018. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3737-3752.	1.9	40
51	Assessing the influence of soil freeze-thaw cycles on catchment water storage flux-age interactions using a tracer-aided ecohydrological model. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3319-3334.	1.9	22
52	Assessing the seasonal effect of flow regimes on availability of Atlantic salmon fry habitat in an upland Scottish stream. <i>Science of the Total Environment</i> , 2019, 696, 133857.	3.9	4
53	Deciphering key processes controlling rainfall isotopic variability during extreme tropical cyclones. <i>Nature Communications</i> , 2019, 10, 4321.	5.8	52
54	Assessing runoff generation in riparian wetlands: monitoring groundwater-surface water dynamics at the micro-catchment scale. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 116.	1.3	12

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55	Spatially distributed tracer-aided runoff modelling and dynamics of storage and water ages in a permafrost-influenced catchment. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2507-2523.	1.9	22
56	Hysteretic response of sap flow in Scots pine ( <i>Pinus sylvestris</i> ) to meteorological forcing in a humid low-energy headwater catchment. <i>Ecohydrology</i> , 2019, 12, e2125.	1.1	24
57	Ecohydrological modelling with $ECH_2O$ to quantify forest and grassland effects on water partitioning and flux ages. <i>Hydrological Processes</i> , 2019, 33, 2174-2191.	1.1	40
58	How Hydrologic Connectivity Regulates Water Quality in River Corridors. <i>Journal of the American Water Resources Association</i> , 2019, 55, 369-381.	1.0	75
59	To what extent does hydrological connectivity control dynamics of faecal indicator organisms in streams? Initial hypothesis testing using a tracer-aided model. <i>Journal of Hydrology</i> , 2019, 570, 423-435.	2.3	12
60	A simple topography-driven and calibration-free runoff generation module. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 787-809.	1.9	37
61	Hydrology at Aberdeen – thinking about water locally and globally. <i>Scottish Geographical Journal</i> , 2019, 135, 267-286.	0.4	1
62	Integration of juvenile habitat quality and river connectivity models to understand and prioritise the management of barriers for Atlantic salmon populations across spatial scales. <i>Science of the Total Environment</i> , 2019, 655, 557-566.	3.9	20
63	Climate-phenology-hydrology interactions in northern high latitudes: Assessing the value of remote sensing data in catchment ecohydrological studies. <i>Science of the Total Environment</i> , 2019, 656, 19-28.	3.9	32
64	Storage dynamics, hydrological connectivity and flux ages in a karst catchment: conceptual modelling using stable isotopes. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 51-71.	1.9	51
65	What can we learn from multi-data calibration of a process-based ecohydrological model?. <i>Environmental Modelling and Software</i> , 2018, 101, 301-316.	1.9	48
66	Using repeat electrical resistivity surveys to assess heterogeneity in soil moisture dynamics under contrasting vegetation types. <i>Journal of Hydrology</i> , 2018, 559, 684-697.	2.3	33
67	Using stable water isotopes to identify spatio-temporal controls on groundwater recharge in two contrasting East African aquifer systems. <i>Hydrological Sciences Journal</i> , 2018, 63, 862-877.	1.2	37
68	Permafrost and lakes control river isotope composition across a boreal Arctic transect in the Western Siberian lowlands. <i>Environmental Research Letters</i> , 2018, 13, 034028.	2.2	32
69	Modelling the effects of land cover and climate change on soil water partitioning in a boreal headwater catchment. <i>Journal of Hydrology</i> , 2018, 558, 520-531.	2.3	32
70	Role of riparian wetlands and hydrological connectivity in the dynamics of stream thermal regimes. <i>Hydrology Research</i> , 2018, 49, 634-647.	1.1	4
71	How can streamflow and climate-landscape data be used to estimate baseflow mean response time?. <i>Journal of Hydrology</i> , 2018, 557, 916-930.	2.3	8
72	Integrating process-based flow and temperature models to assess riparian forests and temperature amelioration in salmon streams. <i>Hydrological Processes</i> , 2018, 32, 776-791.	1.1	19

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73	Using spatial-stream-network models and long-term data to understand and predict dynamics of faecal contamination in a mixed land-use catchment. <i>Science of the Total Environment</i> , 2018, 612, 840-852.	3.9	29
74	Using stable isotopes to assess surface water source dynamics and hydrological connectivity in a high-latitude wetland and permafrost influenced landscape. <i>Journal of Hydrology</i> , 2018, 556, 279-293.	2.3	116
75	Enrichment of $\delta^{18}O$ -iso $\delta^{18}O$ : water isotopes and age tracking in a process-based, distributed ecohydrological model. <i>Geoscientific Model Development</i> , 2018, 11, 3045-3069.	1.3	88
76	Testing a spatially distributed tracer-aided runoff model in a snow-influenced catchment: Effects of multicriteria calibration on streamwater ages. <i>Hydrological Processes</i> , 2018, 32, 3089-3107.	1.1	12
77	A general analytical approach for assessing the effects of hydroclimatic variability on fish habitat. <i>Journal of Hydrology</i> , 2018, 566, 520-530.	2.3	9
78	Conceptualizing catchment storage dynamics and nonlinearities. <i>Hydrological Processes</i> , 2018, 32, 3299-3303.	1.1	12
79	Water ages in the critical zone of long-term experimental sites in northern latitudes. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3965-3981.	1.9	37
80	High riverine CO <sub>2</sub> emissions at the permafrost boundary of Western Siberia. <i>Nature Geoscience</i> , 2018, 11, 825-829.	5.4	64
81	Using stable isotopes to estimate travel times in a data-sparse Arctic catchment: Challenges and possible solutions. <i>Hydrological Processes</i> , 2018, 32, 1936-1952.	1.1	34
82	Incorporating estimates of capture probability and river network covariance in novel habitat abundance models: Assessing the effects of conservation stocking on catchment-scale production of juvenile Atlantic salmon ( <i>Salmo salar</i> ) from a long-term electrofishing dataset. <i>Ecological Indicators</i> , 2018, 93, 302-315.	2.6	13
83	Spatio-temporal diel DOC cycles in a wet, low energy, northern catchment: Highlighting and questioning the sub-daily rhythms of catchment functioning. <i>Journal of Hydrology</i> , 2018, 563, 962-974.	2.3	7
84	Measuring and Modeling Stable Isotopes of Mobile and Bulk Soil Water. <i>Vadose Zone Journal</i> , 2018, 17, 1-18.	1.3	84
85	Characterization of surface water isotope spatial patterns of Scotland. <i>Journal of Geochemical Exploration</i> , 2018, 194, 71-80.	1.5	20
86	Groundwater dynamics at the hillslope-riparian interface in a year with extreme winter rainfall. <i>Journal of Hydrology</i> , 2018, 564, 509-528.	2.3	24
87	On the Use of Storage Selection Functions to Assess Time-Variant Travel Times in Lakes. <i>Water Resources Research</i> , 2018, 54, 5163-5185.	1.7	12
88	Characterizing the heterogeneity of karst critical zone and its hydrological function: An integrated approach. <i>Hydrological Processes</i> , 2018, 32, 2932-2946.	1.1	58
89	Storage, mixing, and fluxes of water in the critical zone across northern environments inferred by stable isotopes of soil water. <i>Hydrological Processes</i> , 2018, 32, 1720-1737.	1.1	52
90	Spatially distributed tracer-aided modelling to explore water and isotope transport, storage and mixing in a pristine, humid tropical catchment. <i>Hydrological Processes</i> , 2018, 32, 3206-3224.	1.1	27

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91	Integrated surface-subsurface model to investigate the role of groundwater in headwater catchment runoff generation: A minimalist approach to parameterisation. <i>Journal of Hydrology</i> , 2017, 547, 664-677.	2.3	60
92	Metrics to assess how longitudinal channel network connectivity and in-stream Atlantic salmon habitats are impacted by hydropower regulation. <i>Hydrological Processes</i> , 2017, 31, 2132-2142.	1.1	21
93	A probabilistic approach to quantifying hydrologic thresholds regulating migration of adult Atlantic salmon into spawning streams. <i>Water Resources Research</i> , 2017, 53, 2264-2277.	1.7	15
94	Using SAS functions and high-resolution isotope data to unravel travel time distributions in headwater catchments. <i>Water Resources Research</i> , 2017, 53, 1864-1878.	1.7	102
95	Spatial and temporal patterns of soil water storage and vegetation water use in humid northern catchments. <i>Science of the Total Environment</i> , 2017, 595, 486-493.	3.9	72
96	Save northern high-latitude catchments. <i>Nature Geoscience</i> , 2017, 10, 324-325.	5.4	71
97	Hydraulic modelling of the spatial and temporal variability in Atlantic salmon parr habitat availability in an upland stream. <i>Science of the Total Environment</i> , 2017, 601-602, 1046-1059.	3.9	24
98	Taming the flood-How far can we go with trees?. <i>Hydrological Processes</i> , 2017, 31, 3122-3126.	1.1	47
99	The essential value of long-term experimental data for hydrology and water management. <i>Water Resources Research</i> , 2017, 53, 2598-2604.	1.7	102
100	Assessing the environmental controls on Scots pine transpiration and the implications for water partitioning in a boreal headwater catchment. <i>Agricultural and Forest Meteorology</i> , 2017, 240-241, 58-66.	1.9	66
101	Scaling effects of riparian peatlands on stable isotopes in runoff and DOC mobilisation. <i>Journal of Hydrology</i> , 2017, 549, 220-235.	2.3	28
102	Testing the maximum entropy production approach for estimating evapotranspiration from closed canopy shrubland in a low-energy humid environment. <i>Hydrological Processes</i> , 2017, 31, 4613-4621.	1.1	19
103	Spatio-temporal effects of river regulation on habitat quality for Atlantic salmon fry. <i>Ecological Indicators</i> , 2017, 83, 292-302.	2.6	9
104	Influence of forest and shrub canopies on precipitation partitioning and isotopic signatures. <i>Hydrological Processes</i> , 2017, 31, 4282-4296.	1.1	32
105	Groundwater isoscapes in a montane headwater catchment show dominance of well-mixed storage. <i>Hydrological Processes</i> , 2017, 31, 3504-3519.	1.1	27
106	Modeling the isotopic evolution of snowpack and snowmelt: Testing a spatially distributed parsimonious approach. <i>Water Resources Research</i> , 2017, 53, 5813-5830.	1.7	49
107	No influence of CO <sub>2</sub> on stable isotope analyses of soil waters with off-axis integrated cavity output spectroscopy (OA-ICOS). <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 430-436.	0.7	15
108	Catchment-scale conceptual modelling of water and solute transport in the dual flow system of the karst critical zone. <i>Hydrological Processes</i> , 2017, 31, 3421-3436.	1.1	44

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109	Using synoptic tracer surveys to assess runoff sources in an Andean headwater catchment in central Chile. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 440.	1.3	23
110	Using high-resolution isotope data and alternative calibration strategies for a tracer-aided runoff model in a nested catchment. <i>Hydrological Processes</i> , 2017, 31, 3962-3978.	1.1	17
111	Evaporation fractionation in a peatland drainage network affects stream water isotope composition. <i>Water Resources Research</i> , 2017, 53, 851-866.	1.7	92
112	Using isotopes to constrain water flux and age estimates in snow-influenced catchments using the STARR (Spatially distributed Tracer-Aided Rainfall-Runoff) model. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5089-5110.	1.9	69
113	Soil water stable isotopes reveal evaporation dynamics at the soil-plant-atmosphere interface of the critical zone. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3839-3858.	1.9	119
114	Characterizing the age distribution of catchment evaporative losses. <i>Hydrological Processes</i> , 2016, 30, 1308-1312.	1.1	25
115	Linking tracers, water age and conceptual models to identify dominant runoff processes in a sparsely monitored humid tropical catchment. <i>Hydrological Processes</i> , 2016, 30, 4477-4493.	1.1	24
116	Spatial organization of groundwater dynamics and streamflow response from different hydrogeological units in a montane catchment. <i>Hydrological Processes</i> , 2016, 30, 3735-3753.	1.1	42
117	Key drivers controlling stable isotope variations in daily precipitation of Costa Rica: Caribbean Sea versus Eastern Pacific Ocean moisture sources. <i>Quaternary Science Reviews</i> , 2016, 131, 250-261.	1.4	68
118	Water sources and mixing in riparian wetlands revealed by tracers and geospatial analysis. <i>Water Resources Research</i> , 2016, 52, 456-470.	1.7	37
119	Hydroclimatic controls on non-stationary stream water ages in humid tropical catchments. <i>Journal of Hydrology</i> , 2016, 542, 231-240.	2.3	19
120	Visualization of spatial patterns of connectivity and runoff ages derived from a tracer-aided model. <i>Hydrological Processes</i> , 2016, 30, 4893-4895.	1.1	9
121	Modelling storage-driven connectivity between landscapes and riverscapes: towards a simple framework for long-term ecohydrological assessment. <i>Hydrological Processes</i> , 2016, 30, 2482-2497.	1.1	21
122	Using high resolution tracer data to constrain water storage, flux and age estimates in a spatially distributed rainfall-runoff model. <i>Hydrological Processes</i> , 2016, 30, 4761-4778.	1.1	69
123	Linking high-frequency DOC dynamics to the age of connected water sources. <i>Water Resources Research</i> , 2016, 52, 5232-5247.	1.7	62
124	Using geophysical surveys to test tracer-based storage estimates in headwater catchments. <i>Hydrological Processes</i> , 2016, 30, 4434-4445.	1.1	33
125	Hydroclimatic influences on non-stationary transit time distributions in a boreal headwater catchment. <i>Journal of Hydrology</i> , 2016, 543, 7-16.	2.3	25
126	Heat-based hyporheic flux calculations in heterogeneous salmon spawning gravels. <i>Aquatic Sciences</i> , 2016, 78, 203-213.	0.6	18



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127	Influence of groundwater chemistry on hyporheic invertebrate assemblages is revealed by fine-scale sampling. <i>Fundamental and Applied Limnology</i> , 2016, 187, 207-221.	0.4	5
128	Identifying runoff contributions during melt-induced runoff events in a glacierized alpine catchment. <i>Hydrological Processes</i> , 2016, 30, 343-364.	1.1	81
129	Stream water age distributions controlled by storage dynamics and nonlinear hydrologic connectivity: Modeling with high-resolution isotope data. <i>Water Resources Research</i> , 2015, 51, 7759-7776.	1.7	134
130	A coupled hydrology-biogeochemistry model to simulate dissolved organic carbon exports from a permafrost-influenced catchment. <i>Hydrological Processes</i> , 2015, 29, 5383-5396.	1.1	29
131	A preliminary assessment of water partitioning and ecohydrological coupling in northern headwaters using stable isotopes and conceptual runoff models. <i>Hydrological Processes</i> , 2015, 29, 5153-5173.	1.1	57
132	Connecting precipitation inputs and soil flow pathways to stream water in contrasting boreal catchments. <i>Hydrological Processes</i> , 2015, 29, 3546-3555.	1.1	74
133	Landscape influence on small-scale water temperature variations in a moorland catchment. <i>Hydrological Processes</i> , 2015, 29, 3098-3111.	1.1	15
134	Ecohydrological separation in wet, low energy northern environments? A preliminary assessment using different soil water extraction techniques. <i>Hydrological Processes</i> , 2015, 29, 5139-5152.	1.1	100
135	Scale-dependent groundwater contributions influence patterns of winter baseflow stream chemistry in boreal catchments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 847-858.	1.3	66
136	Resistance and resilience to droughts: hydrogeological controls on catchment storage and runoff response. <i>Hydrological Processes</i> , 2015, 29, 4579-4593.	1.1	33
137	Advancing tracer-aided rainfall-runoff modelling: a review of progress, problems and unrealised potential. <i>Hydrological Processes</i> , 2015, 29, 5227-5240.	1.1	120
138	Spatial aggregation of time-variant stream water ages in urbanizing catchments. <i>Hydrological Processes</i> , 2015, 29, 3038-3050.	1.1	27
139	Conceptual modelling to assess how the interplay of hydrological connectivity, catchment storage and tracer dynamics controls nonstationary water age estimates. <i>Hydrological Processes</i> , 2015, 29, 2956-2969.	1.1	95
140	Tracer-based assessment of flow paths, storage and runoff generation in northern catchments: a review. <i>Hydrological Processes</i> , 2015, 29, 3475-3490.	1.1	145
141	The Isotope Hydrology of a Large River System Regulated for Hydropower. <i>River Research and Applications</i> , 2015, 31, 335-349.	0.7	21
142	Baseflow dynamics: Multi-tracer surveys to assess variable groundwater contributions to montane streams under low flows. <i>Journal of Hydrology</i> , 2015, 527, 1021-1033.	2.3	60
143	Modelling landscape controls on dissolved organic carbon sources and fluxes to streams. <i>Biogeochemistry</i> , 2015, 122, 361-374.	1.7	77
144	The relative role of soil type and tree cover on water storage and transmission in northern headwater catchments. <i>Hydrological Processes</i> , 2015, 29, 1844-1860.	1.1	87

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145	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.	0.7	18
146	Do catchment characteristics explain differences in coherence and trends in hydroclimatic behaviour in an upland region?. <i>Hydrology Research</i> , 2014, 45, 817-837.	1.1	0
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148	A comparison of wetness indices for the prediction of observed connected saturated areas under contrasting conditions. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 399-413.	1.2	62
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153	Projecting climate change impacts on stream flow regimes with tracer-aided runoff models - preliminary assessment of heterogeneity at the mesoscale. <i>Hydrological Processes</i> , 2014, 28, 545-558.	1.1	24
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157	INFLUENCE OF SCALE ON THERMAL CHARACTERISTICS IN A LARGE MONTANE RIVER BASIN. <i>River Research and Applications</i> , 2013, 29, 403-419.	0.7	47
158	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.	1.7	59
159	Spatial delineation of groundwaterâ€surface water interactions through intensive inâ€stream profiling. <i>Hydrological Processes</i> , 2013, 27, 628-634.	1.1	11
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162	Catchments on the cusp? Structural and functional change in northern ecohydrology. <i>Hydrological Processes</i> , 2013, 27, 766-774.	1.1	55

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164	Process realism: flow paths and storage. , 2013, , 53-69.		6
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167	Potential effects of climate change on streambed scour and risks to salmonid survival in snow-dominated mountain basins. <i>Hydrological Processes</i> , 2013, 27, 750-765.	1.1	70
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205	Spatial distribution of transit times in montane catchments: conceptualization tools for management. <i>Hydrological Processes</i> , 2010, 24, 3283-3288.	1.1	24
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