Chris Soulsby

List of Publications by Year
in descending order

314 papers	15,243 citations	11651 70 h-index	33894 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. International Journal of River Basin Management, 2023, 21, 743-758.	2.7	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›â€N Dynamics: Spatially Distributed Modeling Over 30Âyr in a Lowland Mixed Land Use Catchment. Water Resources Research, 2022, 58, .	4.2	9
4	Functional Multiâ€Scale Integration of Agricultural Nitrogenâ€Budgets Into Catchment Water Quality Modeling. Geophysical Research Letters, 2022, 49, .	4.0	2
5	Visualizing catchmentâ€scale spatioâ€temporal dynamics of storageâ€fluxâ€age interactions using a tracerâ€aided ecohydrological model. Hydrological Processes, 2022, 36, .	2.6	0
6	Critical Zone Response Times and Water Age Relationships Under Variable Catchment Wetness States: Insights Using a Tracerâ€Aided Ecohydrological Model. Water Resources Research, 2022, 58, .	4.2	5
7	Estimates of water partitioning in complex urban landscapes with isotopeâ€aided ecohydrological modelling. Hydrological Processes, 2022, 36, .	2.6	7
8	Using water age to explore hydrological processes in contrasting environments. Hydrological Processes, 2022, 36, .	2.6	0
9	Xylem water in riparian willow trees (<i>Salix alba</i>) reveals shallow sources of root water uptake by in situ monitoring of stable water isotopes. Hydrology and Earth System Sciences, 2022, 26, 2073-2092.	4.9	13
10	Modelling temporal variability of in situ soil water and vegetation isotopes reveals ecohydrological couplings in a riparian willow plot. Biogeosciences, 2022, 19, 2465-2485.	3.3	11
11	Assessing land use influences on isotopic variability and stream water ages in urbanising rural catchments. Isotopes in Environmental and Health Studies, 2022, 58, 277-300.	1.0	4
12	Seasonal variations in soilâ€“plant interactions in contrasting urban green spaces: Insights from water stable isotopes. Journal of Hydrology, 2022, 612, 127998.	5.4	12
13	Tracer-aided identification of hydrological and biogeochemical controls on in-stream water quality in a riparian wetland. Water Research, 2022, 222, 118860.	11.3	5
14	Linking nitrate dynamics to water age in underground conduit flows in a karst catchment. Journal of Hydrology, 2021, 596, 125699.	5.4	10
15	Using soil water isotopes to infer the influence of contrasting urban green space on ecohydrological partitioning. Hydrology and Earth System Sciences, 2021, 25, 927-943.	4.9	19
16	Catchment Functioning Under Prolonged Drought Stress: Tracerâ€Aided Ecohydrological Modeling in an Intensively Managed Agricultural Catchment. Water Resources Research, 2021, 57, e2020WR029094.	4.2	11
17	Quantifying the effects of land use and model scale on water partitioning and water ages using tracer-aided ecohydrological models. Hydrology and Earth System Sciences, 2021, 25, 2239-2259.	4.9	43
18	Using isotopes to understand landscapeâ€scale connectivity in a groundwaterâ€dominated, lowland catchment under drought conditions. Hydrological Processes, 2021, 35, e14197.	2.6	20

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19	Quantifying the effects of urban green space on water partitioning and ages using an isotope-based ecohydrological model. Hydrology and Earth System Sciences, 2021, 25, 3635-3652.	4.9	28
20	Effects of streamflow isotope sampling strategies on the calibration of a tracerâ€aided rainfallâ€runoff model. Hydrological Processes, 2021, 35, e14223.	2.6	13
21	A longerâ€term perspective on soil moisture, groundwater and stream flow response to the 2018 drought in an experimental catchment in the Scottish Highlands. Hydrological Processes, 2021, 35, e14206.	2.6	10
22	Modelling ecohydrological feedbacks in forest and grassland plots under a prolonged drought anomaly in Central Europe 2018â€“2020. Hydrological Processes, 2021, 35, e14325.	2.6	11
23	Structural changes to forests during regeneration affect water flux partitioning, water ages and hydrological connectivity: Insights from tracer-aided ecohydrological modelling. Hydrology and Earth System Sciences, 2021, 25, 4861-4886.	4.9	12
24	Spatio-temporal variations in stable isotopes in peri-urban catchments: A preliminary assessment of potential and challenges in assessing streamflow sources. Journal of Hydrology, 2021, 600, 126685.	5.4	10
25	Isotope hydrology and water sources in a heavily urbanized stream. Hydrological Processes, 2021, 35, e14377.	2.6	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. Journal of Hydrology, 2021, 601, 126659.	5.4	4
27	Using StorAge Selection (SAS) functions to understand flow paths and age distributions in contrasting karst groundwater systems. Journal of Hydrology, 2021, 602, 126785.	5.4	12
28	Hydroclimatic variability and riparian wetland restoration control the hydrology and nutrient fluxes in a lowland agricultural catchment. Journal of Hydrology, 2021, 603, 126904.	5.4	11
29	Stable isotopes of water reveal differences in plant â€“ soil water relationships across northern environments. Hydrological Processes, 2021, 35, e14023.	2.6	51
30	Riparian wetland rehabilitation and beaver re-colonization impacts on hydrological processes and water quality in a lowland agricultural catchment. Science of the Total Environment, 2020, 699, 134302.	8.0	54
31	Using isotopes to understand the evolution of water ages in disturbed mixed landâ€use catchments. Hydrological Processes, 2020, 34, 972-990.	2.6	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. Journal of Environmental Management, 2020, 270, 110903.	7.8	5
33	Contrasting storage-flux-age interactions revealed by catchment inter-comparison using a tracer-aided runoff model. Journal of Hydrology, 2020, 590, 125226.	5.4	7
34	Water-energy-ecosystem nexus in small run-of-river hydropower: Optimal design and policy. Applied Energy, 2020, 280, 115936.	10.1	15
35	Critical Zone Storage Controls on the Water Ages of Ecohydrological Outputs. Geophysical Research Letters, 2020, 47, e2020GL088897.	4.0	31
36	Lessons from the 2018 drought for management of local water supplies in upland areas: A tracerâ€based assessment. Hydrological Processes, 2020, 34, 4190-4210.	2.6	16

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37	Modelling nonâ€stationary water ages in a tropical rainforest: A preliminary spatially distributed assessment. Hydrological Processes, 2020, 34, 4776-4793.	2.6	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. Journal of Environmental Management, 2020, 270, 110905.	7.8	5
39	Using hysteretic behaviour and hydrograph classification to identify hydrological function across the â€œhillslopeâ€“depressionâ€“streamâ€•continuum in a karst catchment. Hydrological Processes, 2020, 34, 3464-3480.	2.6	8
40	Isotopeâ€aided modelling of ecohydrologic fluxes and water ages under mixed land use in Central Europe: The 2018 drought and its recovery. Hydrological Processes, 2020, 34, 3406-3425.	2.6	33
41	Characterizing the variability of transit time distributions and young water fractions in karst catchments using flux tracking. Hydrological Processes, 2020, 34, 3156-3174.	2.6	16
42	Coupled hydrological and biogeochemical modelling of nitrogen transport in the karst critical zone. Science of the Total Environment, 2020, 732, 138902.	8.0	31
43	Quantifying the relative importance of stock level, river temperature and discharge on the abundance of juvenile Atlantic salmon (<scp>Salmo salar</scp>). Ecohydrology, 2020, 13, e2231.	2.4	9
44	Urban water systems under climate stress: An isotopic perspective from Berlin, Germany. Hydrological Processes, 2020, 34, 3758-3776.	2.6	30
45	Headwaters drive streamflow and lowland tracer export in a largeâ€scale humid tropical catchment. Hydrological Processes, 2020, 34, 3824-3841.	2.6	13
46	Opportunities and challenges in using catchment-scale storage estimates from cosmic ray neutron sensors for rainfall-runoff modelling. Journal of Hydrology, 2020, 586, 124878.	5.4	27
47	Using isotopes to incorporate tree water storage and mixing dynamics into a distributed ecohydrologic modelling framework. Ecohydrology, 2020, 13, e2201.	2.4	51
48	Improving the Jarvis-type model with modified temperature and radiation functions for sap flow simulations. Journal of Hydrology, 2020, 587, 124981.	5.4	21
49	Using storage selection functions to assess mixing patterns and water ages of soil water, evaporation and transpiration. Advances in Water Resources, 2020, 141, 103586.	3.8	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. Hydrology and Earth System Sciences, 2020, 24, 3737-3752.	4.9	40
51	Assessing the influence of soil freezeâ€“thaw cycles on catchment water storageâ€“fluxâ€“age interactions using a tracer-aided ecohydrological model. Hydrology and Earth System Sciences, 2019, 23, 3319-3334.	4.9	22
52	Assessing the seasonal effect of flow regimes on availability of Atlantic salmon fry habitat in an upland Scottish stream. Science of the Total Environment, 2019, 696, 133857.	8.0	4
53	Deciphering key processes controlling rainfall isotopic variability during extreme tropical cyclones. Nature Communications, 2019, 10, 4321.	12.8	52
54	Assessing runoff generation in riparian wetlands: monitoring groundwaterâ€“surface water dynamics at the micro-catchment scale. Environmental Monitoring and Assessment, 2019, 191, 116.	2.7	12

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55	Spatially distributed tracer-aided runoff modelling and dynamics of storage and water ages in a permafrost-influenced catchment. Hydrology and Earth System Sciences, 2019, 23, 2507-2523.	4.9	22
56	Hysteretic response of sap flow in Scots pine (<scp>Pinus sylvestris</scp>) to meteorological forcing in a humid lowâ€energy headwater catchment. Ecohydrology, 2019, 12, e2125.	2.4	24
57	Ecohydrological modelling with <scp>EcH₂Oâ€iso</scp> to quantify forest and grassland effects on water partitioning and flux ages. Hydrological Processes, 2019, 33, 2174-2191.	2.6	40
58	How Hydrologic Connectivity Regulates Water Quality in River Corridors. Journal of the American Water Resources Association, 2019, 55, 369-381.	2.4	75
59	To what extent does hydrological connectivity control dynamics of faecal indicator organisms in streams? Initial hypothesis testing using a tracer-aided model. Journal of Hydrology, 2019, 570, 423-435.	5.4	12
60	A simple topography-driven and calibration-free runoff generation module. Hydrology and Earth System Sciences, 2019, 23, 787-809.	4.9	37
61	Hydrology at Aberdeen â€“ thinking about water locally and globally. Scottish Geographical Journal, 2019, 135, 267-286.	1.1	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. Science of the Total Environment, 2019, 655, 557-566.	8.0	20
63	Climate-phenology-hydrology interactions in northern high latitudes: Assessing the value of remote sensing data in catchment ecohydrological studies. Science of the Total Environment, 2019, 656, 19-28.	8.0	32
64	Storage dynamics, hydrological connectivity and flux ages in a karst catchment: conceptual modelling using stable isotopes. Hydrology and Earth System Sciences, 2019, 23, 51-71.	4.9	51
65	What can we learn from multi-data calibration of a process-based ecohydrological model?. Environmental Modelling and Software, 2018, 101, 301-316.	4.5	48
66	Using repeat electrical resistivity surveys to assess heterogeneity in soil moisture dynamics under contrasting vegetation types. Journal of Hydrology, 2018, 559, 684-697.	5.4	33
67	Using stable water isotopes to identify spatio-temporal controls on groundwater recharge in two contrasting East African aquifer systems. Hydrological Sciences Journal, 2018, 63, 862-877.	2.6	37
68	Permafrost and lakes control river isotope composition across a boreal Arctic transect in the Western Siberian lowlands. Environmental Research Letters, 2018, 13, 034028.	5.2	32
69	Modelling the effects of land cover and climate change on soil water partitioning in a boreal headwater catchment. Journal of Hydrology, 2018, 558, 520-531.	5.4	32
70	Role of riparian wetlands and hydrological connectivity in the dynamics of stream thermal regimes. Hydrology Research, 2018, 49, 634-647.	2.7	4
71	How can streamflow and climate-landscape data be used to estimate baseflow mean response time?. Journal of Hydrology, 2018, 557, 916-930.	5.4	8
72	Integrating processâ€based flow and temperature models to assess riparian forests and temperature amelioration in salmon streams. Hydrological Processes, 2018, 32, 776-791.	2.6	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. Science of the Total Environment, 2018, 612, 840-852.	8.0	29
74	Using stable isotopes to assess surface water source dynamics and hydrological connectivity in a high-latitude wetland and permafrost influenced landscape. Journal of Hydrology, 2018, 556, 279-293.	5.4	116
75	EcH₂O-isoÂ1.0: water isotopes and age tracking in a process-based, distributed ecohydrological model. Geoscientific Model Development, 2018, 11, 3045-3069.	3.6	88
76	Testing a spatially distributed tracerâ€aided runoff model in a snowâ€influenced catchment: Effects of multicriteria calibration on streamwater ages. Hydrological Processes, 2018, 32, 3089-3107.	2.6	12
77	A general analytical approach for assessing the effects of hydroclimatic variability on fish habitat. Journal of Hydrology, 2018, 566, 520-530.	5.4	9
78	Conceptualizing catchment storage dynamics and nonlinearities. Hydrological Processes, 2018, 32, 3299-3303.	2.6	12
79	Water ages in the critical zone of long-term experimental sites in northern latitudes. Hydrology and Earth System Sciences, 2018, 22, 3965-3981.	4.9	37
80	High riverine CO2 emissions at the permafrost boundary of Western Siberia. Nature Geoscience, 2018, 11, 825-829.	12.9	64
81	Using stable isotopes to estimate travel times in a dataâ€sparse Arctic catchment: Challenges and possible solutions. Hydrological Processes, 2018, 32, 1936-1952.	2.6	34
82	Incorporating estimates of capture probability and river network covariance in novel habitat â€“ abundance models: Assessing the effects of conservation stocking on catchment-scale production of juvenile Atlantic salmon (Salmo salar) from a long-term electrofishing dataset. Ecological Indicators, 2018, 93, 302-315.	6.3	13
83	Spatio-temporal diel DOC cycles in a wet, low energy, northern catchment: Highlighting and questioning the sub-daily rhythms of catchment functioning. Journal of Hydrology, 2018, 563, 962-974.	5.4	7
84	Measuring and Modeling Stable Isotopes of Mobile and Bulk Soil Water. Vadose Zone Journal, 2018, 17, 1-18.	2.2	84
85	Characterization of surface water isotope spatial patterns of Scotland. Journal of Geochemical Exploration, 2018, 194, 71-80.	3.2	20
86	Groundwater dynamics at the hillslopeâ€“riparian interface in a year with extreme winter rainfall. Journal of Hydrology, 2018, 564, 509-528.	5.4	24
87	On the Use of StorAge Selection Functions to Assess Timeâ€Variant Travel Times in Lakes. Water Resources Research, 2018, 54, 5163-5185.	4.2	12
88	Characterizing the heterogeneity of karst critical zone and its hydrological function: An integrated approach. Hydrological Processes, 2018, 32, 2932-2946.	2.6	58
89	Storage, mixing, and fluxes of water in the critical zone across northern environments inferred by stable isotopes of soil water. Hydrological Processes, 2018, 32, 1720-1737.	2.6	52
90	Spatially distributed tracerâ€aided modelling to explore water and isotope transport, storage and mixing in a pristine, humid tropical catchment. Hydrological Processes, 2018, 32, 3206-3224.	2.6	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. Journal of Hydrology, 2017, 547, 664-677.	5.4	60
92	Metrics to assess how longitudinal channel network connectivity and inâ€stream Atlantic salmon habitats are impacted by hydropower regulation. Hydrological Processes, 2017, 31, 2132-2142.	2.6	21
93	A probabilistic approach to quantifying hydrologic thresholds regulating migration of adult Atlantic salmon into spawning streams. Water Resources Research, 2017, 53, 2264-2277.	4.2	15
94	Using SAS functions and highâ€resolution isotope data to unravel travel time distributions in headwater catchments. Water Resources Research, 2017, 53, 1864-1878.	4.2	102
95	Spatial and temporal patterns of soil water storage and vegetation water use in humid northern catchments. Science of the Total Environment, 2017, 595, 486-493.	8.0	72
96	Save northern high-latitude catchments. Nature Geoscience, 2017, 10, 324-325.	12.9	71
97	Hydraulic modelling of the spatial and temporal variability in Atlantic salmon parr habitat availability in an upland stream. Science of the Total Environment, 2017, 601-602, 1046-1059.	8.0	24
98	Taming the flood-How far can we go with trees?. Hydrological Processes, 2017, 31, 3122-3126.	2.6	47
99	The essential value of longâ€term experimental data for hydrology and water management. Water Resources Research, 2017, 53, 2598-2604.	4.2	102
100	Assessing the environmental controls on Scots pine transpiration and the implications for water partitioning in a boreal headwater catchment. Agricultural and Forest Meteorology, 2017, 240-241, 58-66.	4.8	66
101	Scaling effects of riparian peatlands on stable isotopes in runoff and DOC mobilisation. Journal of Hydrology, 2017, 549, 220-235.	5.4	28
102	Testing the maximum entropy production approach for estimating evapotranspiration from closed canopy shrubland in a lowâ€energy humid environment. Hydrological Processes, 2017, 31, 4613-4621.	2.6	19
103	Spatio-temporal effects of river regulation on habitat quality for Atlantic salmon fry. Ecological Indicators, 2017, 83, 292-302.	6.3	9
104	Influence of forest and shrub canopies on precipitation partitioning and isotopic signatures. Hydrological Processes, 2017, 31, 4282-4296.	2.6	32
105	Groundwater isoscapes in a montane headwater catchment show dominance of wellâ€mixed storage. Hydrological Processes, 2017, 31, 3504-3519.	2.6	27
106	Modeling the isotopic evolution of snowpack and snowmelt: Testing a spatially distributed parsimonious approach. Water Resources Research, 2017, 53, 5813-5830.	4.2	49
107	No influence of CO₂ on stable isotope analyses of soil waters with offâ€axis integrated cavity output spectroscopy (OAâ€ICOS). Rapid Communications in Mass Spectrometry, 2017, 31, 430-436.	1.5	15
108	Catchmentâ€scale conceptual modelling of water and solute transport in the dual flow system of the karst critical zone. Hydrological Processes, 2017, 31, 3421-3436.	2.6	44

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109	Using synoptic tracer surveys to assess runoff sources in an Andean headwater catchment in central Chile. Environmental Monitoring and Assessment, 2017, 189, 440.	2.7	23
110	Using highâ€resolution isotope data and alternative calibration strategies for a tracerâ€aided runoff model in a nested catchment. Hydrological Processes, 2017, 31, 3962-3978.	2.6	17
111	Evaporation fractionation in a peatland drainage network affects stream water isotope composition. Water Resources Research, 2017, 53, 851-866.	4.2	92
112	Using isotopes to constrain water flux and age estimates in snow-influenced catchments using the STARR (Spatially distributed Tracer-Aided Rainfallâ€“Runoff) model. Hydrology and Earth System Sciences, 2017, 21, 5089-5110.	4.9	69
113	Soil water stable isotopes reveal evaporation dynamics at the soilâ€“plantâ€“atmosphere interface of the critical zone. Hydrology and Earth System Sciences, 2017, 21, 3839-3858.	4.9	119
114	Characterizing the age distribution of catchment evaporative losses. Hydrological Processes, 2016, 30, 1308-1312.	2.6	25
115	Linking tracers, water age and conceptual models to identify dominant runoff processes in a sparsely monitored humid tropical catchment. Hydrological Processes, 2016, 30, 4477-4493.	2.6	24
116	Spatial organization of groundwater dynamics and streamflow response from different hydropedological units in a montane catchment. Hydrological Processes, 2016, 30, 3735-3753.	2.6	42
117	Key drivers controlling stable isotope variations in daily precipitation of Costa Rica: Caribbean Sea versus Eastern Pacific Ocean moisture sources. Quaternary Science Reviews, 2016, 131, 250-261.	3.0	68
118	Water sources and mixing in riparian wetlands revealed by tracers and geospatial analysis. Water Resources Research, 2016, 52, 456-470.	4.2	37
119	Hydroclimatic controls on non-stationary stream water ages in humid tropical catchments. Journal of Hydrology, 2016, 542, 231-240.	5.4	19
120	Visualization of spatial patterns of connectivity and runoff ages derived from a tracerâ€aided model. Hydrological Processes, 2016, 30, 4893-4895.	2.6	9
121	Modelling storageâ€driven connectivity between landscapes and riverscapes: towards a simple framework for longâ€term ecohydrological assessment. Hydrological Processes, 2016, 30, 2482-2497.	2.6	21
122	Using high resolution tracer data to constrain water storage, flux and age estimates in a spatially distributed rainfallâ€runoff model. Hydrological Processes, 2016, 30, 4761-4778.	2.6	69
123	Linking highâ€frequency DOC dynamics to the age of connected water sources. Water Resources Research, 2016, 52, 5232-5247.	4.2	62
124	Using geophysical surveys to test tracerâ€based storage estimates in headwater catchments. Hydrological Processes, 2016, 30, 4434-4445.	2.6	33
125	Hydroclimatic influences on non-stationary transit time distributions in a boreal headwater catchment. Journal of Hydrology, 2016, 543, 7-16.	5.4	25
126	Heat-based hyporheic flux calculations in heterogeneous salmon spawning gravels. Aquatic Sciences, 2016, 78, 203-213.	1.5	18

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127	Influence of groundwater chemistry on hyporheic invertebrate assemblages is revealed by fine-scale sampling. Fundamental and Applied Limnology, 2016, 187, 207-221.	0.7	5
128	Identifying runâ€off contributions during meltâ€induced runâ€off events in a glacierized alpine catchment. Hydrological Processes, 2016, 30, 343-364.	2.6	81
129	Stream water age distributions controlled by storage dynamics and nonlinear hydrologic connectivity: Modeling with high-resolution isotope data. Water Resources Research, 2015, 51, 7759-7776.	4.2	134
130	A coupled hydrologyâ€“biogeochemistry model to simulate dissolved organic carbon exports from a permafrostâ€influenced catchment. Hydrological Processes, 2015, 29, 5383-5396.	2.6	29
131	A preliminary assessment of water partitioning and ecohydrological coupling in northern headwaters using stable isotopes and conceptual runoff models. Hydrological Processes, 2015, 29, 5153-5173.	2.6	57
132	Connecting precipitation inputs and soil flow pathways to stream water in contrasting boreal catchments. Hydrological Processes, 2015, 29, 3546-3555.	2.6	74
133	Landscape influence on small-scale water temperature variations in a moorland catchment. Hydrological Processes, 2015, 29, 3098-3111.	2.6	15
134	Ecohydrological separation in wet, low energy northern environments? A preliminary assessment using different soil water extraction techniques. Hydrological Processes, 2015, 29, 5139-5152.	2.6	100
135	Scale-dependent groundwater contributions influence patterns of winter baseflow stream chemistry in boreal catchments. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 847-858.	3.0	66
136	Resistance and resilience to droughts: hydropedological controls on catchment storage and runâ€off response. Hydrological Processes, 2015, 29, 4579-4593.	2.6	33
137	Advancing tracerâ€aided rainfallâ€“runoff modelling: a review of progress, problems and unrealised potential. Hydrological Processes, 2015, 29, 5227-5240.	2.6	120
138	Spatial aggregation of timeâ€variant stream water ages in urbanizing catchments. Hydrological Processes, 2015, 29, 3038-3050.	2.6	27
139	Conceptual modelling to assess how the interplay of hydrological connectivity, catchment storage and tracer dynamics controls nonstationary water age estimates. Hydrological Processes, 2015, 29, 2956-2969.	2.6	95
140	Tracerâ€based assessment of flow paths, storage and runoff generation in northern catchments: a review. Hydrological Processes, 2015, 29, 3475-3490.	2.6	145
141	The Isotope Hydrology of a Large River System Regulated for Hydropower. River Research and Applications, 2015, 31, 335-349.	1.7	21
142	Baseflow dynamics: Multi-tracer surveys to assess variable groundwater contributions to montane streams under low flows. Journal of Hydrology, 2015, 527, 1021-1033.	5.4	60
143	Modelling landscape controls on dissolved organic carbon sources and fluxes to streams. Biogeochemistry, 2015, 122, 361-374.	3.5	77
144	The relative role of soil type and tree cover on water storage and transmission in northern headwater catchments. Hydrological Processes, 2015, 29, 1844-1860.	2.6	87

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145	Conceptual Modelling to Assess Hydrological Impacts and Evaluate Environmental Flow Scenarios in Montane River Systems Regulated for Hydropower. River Research and Applications, 2015, 31, 1066-1081.	1.7	18
146	Do catchment characteristics explain differences in coherence and trends in hydroclimatic behaviour in an upland region?. Hydrology Research, 2014, 45, 817-837.	2.7	0
147	ASSESSING THE CUMULATIVE IMPACTS OF HYDROPOWER REGULATION ON THE FLOW CHARACTERISTICS OF A LARGE ATLANTIC SALMON RIVER SYSTEM. River Research and Applications, 2014, 30, 456-475.	1.7	20
148	A comparison of wetness indices for the prediction of observed connected saturated areas under contrasting conditions. Earth Surface Processes and Landforms, 2014, 39, 399-413.	2.5	62
149	Controls on the distribution of channel reach morphology in selectively glaciated catchments. Geomorphology, 2014, 211, 121-133.	2.6	10
150	Application of a linear regression model to assess the influence of urbanised areas and grazing pastures on the microbiological quality of rural streams. Environmental Monitoring and Assessment, 2014, 186, 7141-7155.	2.7	18
151	Integrating parsimonious models of hydrological connectivity and soil biogeochemistry to simulate stream DOC dynamics. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1030-1047.	3.0	35
152	Developing a consistent processâ€based conceptualization of catchment functioning using measurements of internal state variables. Water Resources Research, 2014, 50, 3481-3501.	4.2	73
153	Projecting climate change impacts on stream flow regimes with tracer-aided runoff models - preliminary assessment of heterogeneity at the mesoscale. Hydrological Processes, 2014, 28, 545-558.	2.6	24
154	Influence of lowland aquifers and anthropogenic impacts on the isotope hydrology of contrasting mesoscale catchments. Hydrological Processes, 2014, 28, 793-808.	2.6	12
155	Storage dynamics in hydropedological units control hillslope connectivity, runoff generation, and the evolution of catchment transit time distributions. Water Resources Research, 2014, 50, 969-985.	4.2	216
156	Assessing urbanization impacts on catchment transit times. Geophysical Research Letters, 2014, 41, 442-448.	4.0	33
157	INFLUENCE OF SCALE ON THERMAL CHARACTERISTICS IN A LARGE MONTANE RIVER BASIN. River Research and Applications, 2013, 29, 403-419.	1.7	47
158	Use of color maps and wavelet coherence to discern seasonal and interannual climate influences on streamflow variability in northern catchments. Water Resources Research, 2013, 49, 6194-6207.	4.2	59
159	Spatial delineation of groundwaterâ€“surface water interactions through intensive inâ€stream profiling. Hydrological Processes, 2013, 27, 628-634.	2.6	11
160	Influence of contrasting riparian forest cover on stream temperature dynamics in salmonid spawning and nursery streams. Ecohydrology, 2013, 6, 380-392.	2.4	25
161	Modeling the dynamics of metabolism in montane streams using continuous dissolved oxygen measurements. Water Resources Research, 2013, 49, 5260-5275.	4.2	13
162	Catchments on the cusp? Structural and functional change in northern ecohydrology. Hydrological Processes, 2013, 27, 766-774.	2.6	55

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