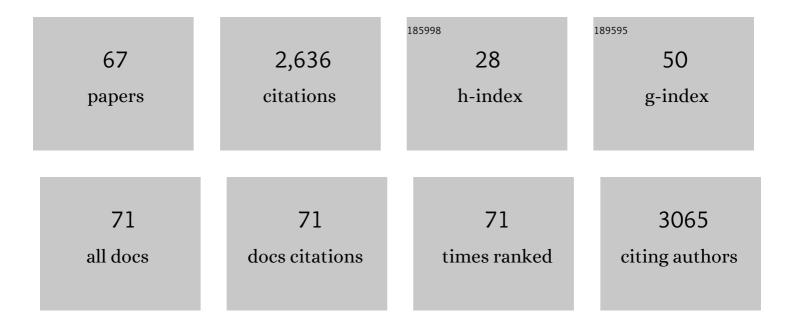
James M Buttle

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	lsotope hydrograph separations and rapid delivery of pre-event water from drainage basins. Progress in Physical Geography, 1994, 18, 16-41.	1.4	424
2	Tracerâ€based assessment of flow paths, storage and runoff generation in northern catchments: a review. Hydrological Processes, 2015, 29, 3475-3490.	1.1	145
3	Hydrologic coupling of slopes, riparian zones and streams: an example from the Canadian Shield. Journal of Hydrology, 2004, 287, 161-177.	2.3	137
4	Crossâ€regional prediction of longâ€term trajectory of stream water DOC response to climate change. Geophysical Research Letters, 2012, 39, .	1.5	127
5	Interâ€comparison of hydroâ€climatic regimes across northern catchments: synchronicity, resistance and resilience. Hydrological Processes, 2010, 24, 3591-3602.	1.1	103
6	Flood processes in Canada: Regional and special aspects. Canadian Water Resources Journal, 2016, 41, 7-30.	0.5	97
7	Long-term trends in dissolved organic carbon concentration: a cautionary note. Biogeochemistry, 2008, 87, 71-81.	1.7	85
8	Measuring and Modeling Stable Isotopes of Mobile and Bulk Soil Water. Vadose Zone Journal, 2018, 17, 1-18.	1.3	84
9	Mapping first-order controls on streamflow from drainage basins: the T3 template. Hydrological Processes, 2006, 20, 3415-3422.	1.1	82
10	Impacts of clearcut harvesting on snow accumulation and melt in a northern hardwood forest. Journal of Hydrology, 2003, 271, 197-212.	2.3	79
11	An Overview of Temporary Stream Hydrology in Canada. Canadian Water Resources Journal, 2012, 37, 279-310.	0.5	75
12	Save northern high-latitude catchments. Nature Geoscience, 2017, 10, 324-325.	5.4	71
13	Spatial variability of saturated hydraulic conductivity in shallow macroporous soils in a forested basin. Journal of Hydrology, 1997, 203, 127-142.	2.3	68
14	Examination of the potential relationship between droughts, sulphate and dissolved organic carbon at a wetlandâ€draining stream. Global Change Biology, 2008, 14, 938-948.	4.2	59
15	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.	1.7	59
16	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.	1.1	57
17	Comparison of threshold hydrologic response across northern catchments. Hydrological Processes, 2015, 29, 3575-3591.	1.1	55
18	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.	1.1	52

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19	Stable isotopes of water reveal differences in plant – soil water relationships across northern environments. Hydrological Processes, 2021, 35, e14023.	1.1	51
20	The Processes, Patterns and Impacts of Low Flows Across Canada. Canadian Water Resources Journal, 2008, 33, 107-124.	0.5	50
21	Hydrologic dynamics and linkages in a wetland-dominated basin. Journal of Hydrology, 2006, 319, 15-35.	2.3	45
22	Semi-distributed water balance dynamics in a small boreal forest basin. Journal of Hydrology, 1999, 226, 66-87.	2.3	41
23	Infiltration and soil water mixing on forested and harvested slopes during spring snowmelt, Turkey Lakes Watershed, central Ontario. Journal of Hydrology, 2005, 306, 1-20.	2.3	40
24	Persistence of Water within Perched Basins of the Peace-Athabasca Delta, Northern Canada. Wetlands Ecology and Management, 2006, 14, 221-243.	0.7	39
25	Scaling and physiographic controls on streamflow behaviour on the Precambrian Shield, south-central Ontario. Journal of Hydrology, 2009, 374, 360-372.	2.3	37
26	Water ages in the critical zone of long-term experimental sites in northern latitudes. Hydrology and Earth System Sciences, 2018, 22, 3965-3981.	1.9	37
27	Change in winter climate will affect dissolved organic carbon and water fluxes in midâ€ŧoâ€high latitude catchments. Hydrological Processes, 2013, 27, 700-709.	1.1	35
28	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.	3.9	32
29	Measurement and modeling of canopy water partitioning in a reforested landscape: The Ganaraska Forest, southern Ontario, Canada. Journal of Hydrology, 2012, 466-467, 103-114.	2.3	28
30	Dynamic storage: a potential metric of inter-basin differences in storage properties. Hydrological Processes, 2016, 30, 4644-4653.	1.1	25
31	Hydrologic response to and recovery from differing silvicultural systems in a deciduous forest landscape with seasonal snow cover. Journal of Hydrology, 2018, 557, 805-825.	2.3	25
32	The Effects of Forest Harvesting on Forest Hydrology and Biogeochemistry. Ecological Studies, 2011, , 659-677.	0.4	22
33	Mediating stream baseflow response to climate change: The role of basin storage. Hydrological Processes, 2018, 32, 363-378.	1.1	21
34	Urban biogeochemistry of trace elements: What can the sediments of stormwater ponds tell us?. Urban Ecosystems, 2015, 18, 763-775.	1.1	20
35	Prediction of Streamflow Regime and Annual Runoff for Ungauged Basins Using a Distributed Monthly Water Balance Model ¹ . Journal of the American Water Resources Association, 2012, 48, 32-42.	1.0	18
36	Stemflow and soil water recharge during rainfall in a red pine chronosequence on the Oak Ridges Moraine, southern Ontario, Canada. Journal of Hydrology, 2014, 517, 777-790.	2.3	18

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37	Quickflow response to forest harvesting and recovery in a northern hardwood forest landscape. Hydrological Processes, 2019, 33, 47-65.	1.1	16
38	Travel times for snowmeltâ€dominated headwater catchments: Influences of wetlands and forest harvesting, and linkages to stream water quality. Hydrological Processes, 2020, 34, 2154-2175.	1.1	15
39	Evaluation of a Simple Method to Classify the Thermal Characteristics of Streams Using a Nomogram of Daily Maximum Air and Water Temperatures. North American Journal of Fisheries Management, 2009, 29, 1605-1619.	0.5	14
40	Hydrological footprints of urban developments in the Lake Simcoe watershed, Canada: a combined paired atchment and change detection modelling approach. Hydrological Processes, 2015, 29, 1829-1843.	1.1	14
41	HYDROLOGICAL RESPONSE TO REFORESTATION IN THE GANARASKA RIVER BASIN, SOUTHERN ONTARIO. Canadian Geographer / Geographie Canadien, 1994, 38, 240-253.	1.0	13
42	Spatiotemporal patterns of baseflow metrics for basins draining the Oak Ridges Moraine, southern Ontario, Canada. Canadian Water Resources Journal, 2015, 40, 3-22.	0.5	12
43	Testing a spatially distributed tracerâ€nided runoff model in a snowâ€influenced catchment: Effects of multicriteria calibration on streamwater ages. Hydrological Processes, 2018, 32, 3089-3107.	1.1	12
44	Co-evolution of xylem water and soil water stable isotopic composition in a northern mixed forest biome. Hydrology and Earth System Sciences, 2021, 25, 2169-2186.	1.9	11
45	Land cover controls on depressionâ€focused recharge on the Oak Ridges Moraine, southern Ontario, Canada. Hydrological Processes, 2018, 32, 1909-1926.	1.1	10
46	Hydroclimatic and hydrochemical controls on Plecoptera diversity and distribution in northern freshwater ecosystems. Hydrobiologia, 2012, 693, 39-53.	1.0	8
47	Importance of rainfall partitioning in a northern mixed forest canopy for soil water isotopic signatures in ecohydrological studies. Hydrological Processes, 2020, 34, 284-302.	1.1	7
48	Contrasting storage-flux-age interactions revealed by catchment inter-comparison using a tracer-aided runoff model. Journal of Hydrology, 2020, 590, 125226.	2.3	7
49	Development of an inexpensive automated streamflow monitoring system. Hydrological Processes, 2020, 34, 3021-3023.	1.1	7
50	Long-term stream chemistry response to harvesting in a northern hardwood forest watershed experiencing environmental change. Forest Ecology and Management, 2022, 519, 120345.	1.4	6
51	Comparison of measured and estimated unsaturated hydraulic conductivities during snowmelt. Journal of Hydrology, 1991, 123, 243-259.	2.3	5
52	Anatomy of an Extreme Event: The July 14–15, 2004 Peterborough Rainstorm. Canadian Water Resources Journal, 2007, 32, 59-74.	0.5	5
53	Analysis of hydrological seasonality across northern catchments using monthly precipitation–runoff polygon metrics. Hydrological Sciences Journal, 2014, 59, 56-72.	1.2	4
54	Assessing basin storage: Comparison of hydrometric―and tracerâ€based indices of dynamic and total storage. Hydrological Processes, 2020, 34, 2012-2031.	1.1	4

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55	Channel Changes Following Headwater Reforestation: The Ganaraska River, Ontario, Canada. Geografiska Annaler, Series A: Physical Geography, 1995, 77, 107-118.	0.6	3
56	Investigating snowpack across scale in the northern Great Lakes–St. Lawrence forest region of Central Ontario, Canada. Hydrological Processes, 2019, 33, 3310-3329.	1.1	3
57	Recent advances in Canadian hydrology Special issue. Hydrological Processes, 2000, 14, 1537-1537.	1.1	2
58	Precipitation data quality and longâ€ŧerm water balances within the Moose River Basin, eastâ€central Canada. Atmosphere - Ocean, 2001, 39, 55-69.	0.6	2
59	Clarifying misconceptions regarding the relationship between Hewlett and Hibbert's translatory flow process and ecohydrological separation. Hydrological Processes, 2020, 34, 5686-5689.	1.1	2
60	K.J. Gregory and the Devon instrumented catchments. Earth Surface Processes and Landforms, 2021, 46, 2523-2526.	1.2	2
61	Channel Changes following Headwater Reforestation: The Ganaraska River, Ontario, Canada. Geografiska Annaler, Series A: Physical Geography, 1995, 77, 107.	0.6	2
62	Canadian Geophysical Union - Hydrology Section. Hydrological Processes, 2006, 20, 3587-3588.	1.1	1
63	<i>HPToday</i> : retrospective and prospective. Hydrological Processes, 2015, 29, 3441-3442.	1.1	1
64	Evaluating seasonal and regional calibration of temperature-based methods for estimating potential evaporation in Ontario. Canadian Water Resources Journal, 2019, 44, 2-21.	0.5	1
65	<i>HPEye</i> . Hydrological Processes, 2016, 30, 2509-2509.	1.1	0
66	Controls on depression-focused recharge during spring snowmelt on the Oak Ridges Moraine, southern Ontario, Canada. Catena, 2020, 184, 104241.	2.2	0
67	Preface for Jake Peters' special issue. Hydrological Processes, 2020, 34, 1680-1681.	1.1	0