

James M Buttle

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

2,636
citations

185998

28
h-index

189595

50
g-index

71
all docs

71
docs citations

71
times ranked

3065
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term stream chemistry response to harvesting in a northern hardwood forest watershed experiencing environmental change. <i>Forest Ecology and Management</i> , 2022, 519, 120345.	1.4	6
2	Co-evolution of xylem water and soil water stable isotopic composition in a northern mixed forest biome. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2169-2186.	1.9	11
3	K.J. Gregory and the Devon instrumented catchments. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 2523-2526.	1.2	2
4	Stable isotopes of water reveal differences in plant " soil water relationships across northern environments. <i>Hydrological Processes</i> , 2021, 35, e14023.	1.1	51
5	Controls on depression-focused recharge during spring snowmelt on the Oak Ridges Moraine, southern Ontario, Canada. <i>Catena</i> , 2020, 184, 104241.	2.2	0
6	Importance of rainfall partitioning in a northern mixed forest canopy for soil water isotopic signatures in ecohydrological studies. <i>Hydrological Processes</i> , 2020, 34, 284-302.	1.1	7
7	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
8	Clarifying misconceptions regarding the relationship between Hewlett and Hibbert's transitory flow process and ecohydrological separation. <i>Hydrological Processes</i> , 2020, 34, 5686-5689.	1.1	2
9	Travel times for snowmelt-dominated headwater catchments: Influences of wetlands and forest harvesting, and linkages to stream water quality. <i>Hydrological Processes</i> , 2020, 34, 2154-2175.	1.1	15
10	Assessing basin storage: Comparison of hydrometric and tracer-based indices of dynamic and total storage. <i>Hydrological Processes</i> , 2020, 34, 2012-2031.	1.1	4
11	Preface for Jake Peters' special issue. <i>Hydrological Processes</i> , 2020, 34, 1680-1681.	1.1	0
12	Development of an inexpensive automated streamflow monitoring system. <i>Hydrological Processes</i> , 2020, 34, 3021-3023.	1.1	7
13	Investigating snowpack across scale in the northern Great Lakes "St. Lawrence forest region of Central Ontario, Canada. <i>Hydrological Processes</i> , 2019, 33, 3310-3329.	1.1	3
14	Evaluating seasonal and regional calibration of temperature-based methods for estimating potential evaporation in Ontario. <i>Canadian Water Resources Journal</i> , 2019, 44, 2-21.	0.5	1
15	Quickflow response to forest harvesting and recovery in a northern hardwood forest landscape. <i>Hydrological Processes</i> , 2019, 33, 47-65.	1.1	16
16	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
17	Hydrologic response to and recovery from differing silvicultural systems in a deciduous forest landscape with seasonal snow cover. <i>Journal of Hydrology</i> , 2018, 557, 805-825.	2.3	25
18	Mediating stream baseflow response to climate change: The role of basin storage. <i>Hydrological Processes</i> , 2018, 32, 363-378.	1.1	21

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19	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
20	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
21	Measuring and Modeling Stable Isotopes of Mobile and Bulk Soil Water. <i>Vadose Zone Journal</i> , 2018, 17, 1-18.	1.3	84
22	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
23	Land cover controls on depression-focused recharge on the Oak Ridges Moraine, southern Ontario, Canada. <i>Hydrological Processes</i> , 2018, 32, 1909-1926.	1.1	10
24	Save northern high-latitude catchments. <i>Nature Geoscience</i> , 2017, 10, 324-325.	5.4	71
25	<i>HPEye</i> . <i>Hydrological Processes</i> , 2016, 30, 2509-2509.	1.1	0
26	Dynamic storage: a potential metric of inter-basin differences in storage properties. <i>Hydrological Processes</i> , 2016, 30, 4644-4653.	1.1	25
27	Flood processes in Canada: Regional and special aspects. <i>Canadian Water Resources Journal</i> , 2016, 41, 7-30.	0.5	97
28	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
29	Comparison of threshold hydrologic response across northern catchments. <i>Hydrological Processes</i> , 2015, 29, 3575-3591.	1.1	55
30	Hydrological footprints of urban developments in the Lake Simcoe watershed, Canada: a combined paired-catchment and change detection modelling approach. <i>Hydrological Processes</i> , 2015, 29, 1829-1843.	1.1	14
31	<i>HPToday</i> : retrospective and prospective. <i>Hydrological Processes</i> , 2015, 29, 3441-3442.	1.1	1
32	Spatiotemporal patterns of baseflow metrics for basins draining the Oak Ridges Moraine, southern Ontario, Canada. <i>Canadian Water Resources Journal</i> , 2015, 40, 3-22.	0.5	12
33	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
34	Urban biogeochemistry of trace elements: What can the sediments of stormwater ponds tell us?. <i>Urban Ecosystems</i> , 2015, 18, 763-775.	1.1	20
35	Analysis of hydrological seasonality across northern catchments using monthly precipitation-runoff polygon metrics. <i>Hydrological Sciences Journal</i> , 2014, 59, 56-72.	1.2	4
36	Stemflow and soil water recharge during rainfall in a red pine chronosequence on the Oak Ridges Moraine, southern Ontario, Canada. <i>Journal of Hydrology</i> , 2014, 517, 777-790.	2.3	18

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37	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
38	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.	1.1	35
39	Cross-regional prediction of long-term trajectory of stream water DOC response to climate change. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	127
40	Measurement and modeling of canopy water partitioning in a reforested landscape: The Ganaraska Forest, southern Ontario, Canada. <i>Journal of Hydrology</i> , 2012, 466-467, 103-114.	2.3	28
41	An Overview of Temporary Stream Hydrology in Canada. <i>Canadian Water Resources Journal</i> , 2012, 37, 279-310.	0.5	75
42	Hydroclimatic and hydrochemical controls on Plecoptera diversity and distribution in northern freshwater ecosystems. <i>Hydrobiologia</i> , 2012, 693, 39-53.	1.0	8
43	Prediction of Streamflow Regime and Annual Runoff for Ungauged Basins Using a Distributed Monthly Water Balance Model ¹ . <i>Journal of the American Water Resources Association</i> , 2012, 48, 32-42.	1.0	18
44	The Effects of Forest Harvesting on Forest Hydrology and Biogeochemistry. <i>Ecological Studies</i> , 2011, , 659-677.	0.4	22
45	Inter-comparison of hydro-climatic regimes across northern catchments: synchronicity, resistance and resilience. <i>Hydrological Processes</i> , 2010, 24, 3591-3602.	1.1	103
46	Scaling and physiographic controls on streamflow behaviour on the Precambrian Shield, south-central Ontario. <i>Journal of Hydrology</i> , 2009, 374, 360-372.	2.3	37
47	Evaluation of a Simple Method to Classify the Thermal Characteristics of Streams Using a Nomogram of Daily Maximum Air and Water Temperatures. <i>North American Journal of Fisheries Management</i> , 2009, 29, 1605-1619.	0.5	14
48	Long-term trends in dissolved organic carbon concentration: a cautionary note. <i>Biogeochemistry</i> , 2008, 87, 71-81.	1.7	85
49	Examination of the potential relationship between droughts, sulphate and dissolved organic carbon at a wetland-draining stream. <i>Global Change Biology</i> , 2008, 14, 938-948.	4.2	59
50	The Processes, Patterns and Impacts of Low Flows Across Canada. <i>Canadian Water Resources Journal</i> , 2008, 33, 107-124.	0.5	50
51	Anatomy of an Extreme Event: The July 14-15, 2004 Peterborough Rainstorm. <i>Canadian Water Resources Journal</i> , 2007, 32, 59-74.	0.5	5
52	Hydrologic dynamics and linkages in a wetland-dominated basin. <i>Journal of Hydrology</i> , 2006, 319, 15-35.	2.3	45
53	Persistence of Water within Perched Basins of the Peace-Athabasca Delta, Northern Canada. <i>Wetlands Ecology and Management</i> , 2006, 14, 221-243.	0.7	39
54	Canadian Geophysical Union - Hydrology Section. <i>Hydrological Processes</i> , 2006, 20, 3587-3588.	1.1	1

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55	Mapping first-order controls on streamflow from drainage basins: the T3 template. <i>Hydrological Processes</i> , 2006, 20, 3415-3422.	1.1	82
56	Infiltration and soil water mixing on forested and harvested slopes during spring snowmelt, Turkey Lakes Watershed, central Ontario. <i>Journal of Hydrology</i> , 2005, 306, 1-20.	2.3	40
57	Hydrologic coupling of slopes, riparian zones and streams: an example from the Canadian Shield. <i>Journal of Hydrology</i> , 2004, 287, 161-177.	2.3	137
58	Impacts of clearcut harvesting on snow accumulation and melt in a northern hardwood forest. <i>Journal of Hydrology</i> , 2003, 271, 197-212.	2.3	79
59	Precipitation data quality and long-term water balances within the Moose River Basin, east-central Canada. <i>Atmosphere - Ocean</i> , 2001, 39, 55-69.	0.6	2
60	Recent advances in Canadian hydrology Special issue. <i>Hydrological Processes</i> , 2000, 14, 1537-1537.	1.1	2
61	Semi-distributed water balance dynamics in a small boreal forest basin. <i>Journal of Hydrology</i> , 1999, 226, 66-87.	2.3	41
62	Spatial variability of saturated hydraulic conductivity in shallow macroporous soils in a forested basin. <i>Journal of Hydrology</i> , 1997, 203, 127-142.	2.3	68
63	Channel Changes Following Headwater Reforestation: The Ganaraska River, Ontario, Canada. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1995, 77, 107-118.	0.6	3
64	Channel Changes following Headwater Reforestation: The Ganaraska River, Ontario, Canada. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1995, 77, 107.	0.6	2
65	Isotope hydrograph separations and rapid delivery of pre-event water from drainage basins. <i>Progress in Physical Geography</i> , 1994, 18, 16-41.	1.4	424
66	HYDROLOGICAL RESPONSE TO REFORESTATION IN THE GANARASKA RIVER BASIN, SOUTHERN ONTARIO. <i>Canadian Geographer / Geographie Canadien</i> , 1994, 38, 240-253.	1.0	13
67	Comparison of measured and estimated unsaturated hydraulic conductivities during snowmelt. <i>Journal of Hydrology</i> , 1991, 123, 243-259.	2.3	5