

Stephen Dery

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

4,235
citations

126907

33
h-index

128289

60
g-index

123
all docs

123
docs citations

123
times ranked

4285
citing authors

#	ARTICLE	IF	CITATIONS
1	A pan-arctic evaluation of changes in river discharge during the latter half of the 20th century. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	305
2	Recent Northern Hemisphere snow cover extent trends and implications for the snow–albedo feedback. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	298
3	The role of snow cover in the warming of arctic permafrost. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	236
4	Decreasing river discharge in northern Canada. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	214
5	Characteristics and Trends of River Discharge into Hudson, James, and Ungava Bays, 1964–2000. <i>Journal of Climate</i> , 2005, 18, 2540-2557.	3.2	201
6	Observational evidence of an intensifying hydrological cycle in northern Canada. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	148
7	Large-scale mass balance effects of blowing snow and surface sublimation. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 8-1-ACL 8-17.	3.3	119
8	Detection of runoff timing changes in pluvial, nival, and glacial rivers of western Canada. <i>Water Resources Research</i> , 2009, 45, .	4.2	117
9	Interannual variability and interdecadal trends in Hudson Bay streamflow. <i>Journal of Marine Systems</i> , 2011, 88, 341-351.	2.1	106
10	Recent trends and variability in river discharge across northern Canada. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4801-4818.	4.9	99
11	An approach to using snow areal depletion curves inferred from MODIS and its application to land surface modelling in Alaska. <i>Hydrological Processes</i> , 2005, 19, 2755-2774.	2.6	92
12	A Bulk Blowing Snow Model. <i>Boundary-Layer Meteorology</i> , 1999, 93, 237-251.	2.3	87
13	Simulation Of Blowing Snow In The Canadian Arctic Using A Double-Moment Model. <i>Boundary-Layer Meteorology</i> , 2001, 99, 297-316.	2.3	86
14	Teleconnection between the Arctic Oscillation and Hudson Bay river discharge. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	84
15	Drifting snow climate of the Greenland ice sheet: a study with a regional climate model. <i>Cryosphere</i> , 2012, 6, 891-899.	3.9	69
16	An Intercomparison Among Four Models Of Blowing Snow. <i>Boundary-Layer Meteorology</i> , 2000, 97, 109-135.	2.3	66
17	The impact of a catastrophic mine tailings impoundment spill into one of North America's largest fjord lakes: Quesnel Lake, British Columbia, Canada. <i>Geophysical Research Letters</i> , 2015, 42, 3347-3355.	4.0	58
18	Topographic control of snow distribution in an alpine watershed of western Canada inferred from spatially-filtered MODIS snow products. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 319-326.	4.9	56

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19	Planning for climate change adaptation: lessons learned from a community-based workshop. <i>Environmental Science and Policy</i> , 2012, 17, 82-93.	4.9	53
20	Polar amplification and elevation-dependence in trends of Northern Hemisphere snow cover extent, 1971â€“2014. <i>Environmental Research Letters</i> , 2015, 10, 044010.	5.2	53
21	A century of hydrological variability and trends in the Fraser River Basin. <i>Environmental Research Letters</i> , 2012, 7, 024019.	5.2	51
22	Incorporating climate change adaptation into local plans. <i>Journal of Environmental Planning and Management</i> , 2014, 57, 984-1002.	4.5	51
23	Observed twentieth century land surface air temperature and precipitation covariability. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	48
24	A climatology of adverse winterâ€“type weather events. <i>Journal of Geophysical Research</i> , 1999, 104, 16657-16672.	3.3	44
25	SOME ASPECTS OF THE INTERACTION OF BLOWING SNOW WITH THE ATMOSPHERIC BOUNDARY LAYER. <i>Hydrological Processes</i> , 1996, 10, 1345-1358.	2.6	42
26	Modeling the Effects of Wind Redistribution on the Snow Mass Budget of Polar Sea Ice*. <i>Journal of Physical Oceanography</i> , 2004, 34, 258-271.	1.7	42
27	Future Climate Change Impacts on Snow and Water Resources of the Fraser River Basin, British Columbia. <i>Journal of Hydrometeorology</i> , 2017, 18, 473-496.	1.9	42
28	Partitioning the contributions of glacier melt and precipitation to the 1971â€“2010 runoff increases in a headwater basin of the Tarim River. <i>Journal of Hydrology</i> , 2020, 583, 124579.	5.4	40
29	Testing snow water equivalent retrieval algorithms for passive microwave remote sensing in an alpine watershed of western Canada. <i>Canadian Journal of Remote Sensing</i> , 2010, 36, S74-S86.	2.4	39
30	Connectivity between Eurasian snow cover extent and Canadian snow water equivalent and river discharge. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	36
31	Interrelationships between MODIS/Terra remotely sensed snow cover and the hydrometeorology of the Quesnel River Basin, British Columbia, Canada. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 1439-1452.	4.9	35
32	Impacts of a Rapidly Declining Mountain Snowpack on Streamflow Timing in Canadaâ€™s Fraser River Basin. <i>Scientific Reports</i> , 2016, 6, 19299.	3.3	35
33	Modeling Snow-Cover Heterogeneity over Complex Arctic Terrain for Regional and Global Climate Models*. <i>Journal of Hydrometeorology</i> , 2004, 5, 33-48.	1.9	34
34	Relative sensitivity of the Atlantic meridional overturning circulation to river discharge into Hudson Bay and the Arctic Ocean. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	34
35	On the Changing Contribution of Snow to the Hydrology of the Fraser River Basin, Canada. <i>Journal of Hydrometeorology</i> , 2014, 15, 1344-1365.	1.9	34
36	Hydroâ€“meteorological drivers and sources of suspended sediment flux in the proâ€“glacial zone of the retreating Castle Creek Glacier, Cariboo Mountains, British Columbia, Canada. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 1542-1559.	2.5	34

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37	An agricultural drought index to incorporate the irrigation process and reservoir operations: A case study in the Tarim River Basin. <i>Global and Planetary Change</i> , 2016, 143, 10-20.	3.5	31
38	River Freshwater Flux to the Arctic Ocean. , 2021, , 703-738.		30
39	Sensitivity of the thermohaline circulation to Arctic Ocean runoff. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	29
40	Evaluating uncertainties in modelling the snow hydrology of the Fraser River Basin, British Columbia, Canada. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1827-1847.	4.9	29
41	Modelling the impacts of climate change on riverine thermal regimes in western Canadaâ€™s largest Pacific watershed. <i>Scientific Reports</i> , 2019, 9, 11398.	3.3	29
42	Relationships between Recent Pan-Arctic Snow Cover and Hydroclimate Trends. <i>Journal of Climate</i> , 2013, 26, 2048-2064.	3.2	28
43	Hydroclimatic variability and predictability: a survey of recent research. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3777-3798.	4.9	28
44	Flooding in the Nechako River Basin of Canada: A random forest modeling approach to flood analysis in a regulated reservoir system. <i>Canadian Water Resources Journal</i> , 2016, 41, 250-260.	1.2	27
45	Canadian snow and sea ice: assessment of snow, sea ice, and related climate processes in Canada's Earth system model and climate-prediction system. <i>Cryosphere</i> , 2018, 12, 1137-1156.	3.9	27
46	Atmospheric Rivers Increase Future Flood Risk in Western Canada's Largest Pacific River. <i>Geophysical Research Letters</i> , 2019, 46, 1651-1661.	4.0	27
47	Learning with practitioners: climate change adaptation priorities in a Canadian community. <i>Climatic Change</i> , 2013, 118, 321-337.	3.6	26
48	Impacts of 1.5 and 2.0Â°C Warming on Pan-Arctic River Discharge Into the Hudson Bay Complex Through 2070. <i>Geophysical Research Letters</i> , 2018, 45, 7561-7570.	4.0	26
49	The Water Budget of the Kuparuk River Basin, Alaska*. <i>Journal of Hydrometeorology</i> , 2005, 6, 633-655.	1.9	24
50	Evaluation of different methods to model near-surface turbulent fluxes for a mountain glacier in the Cariboo Mountains, BC, Canada. <i>Cryosphere</i> , 2017, 11, 2897-2918.	3.9	24
51	Variability and trends of landfalling atmospheric rivers along the Pacific Coast of northwestern North America. <i>International Journal of Climatology</i> , 2020, 40, 544-558.	3.5	24
52	Contribution of Atmospheric Rivers to Annual, Seasonal, and Extreme Precipitation Across British Columbia and Southeastern Alaska. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031823.	3.3	24
53	Streamflow input to Lake Athabasca, Canada. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1681-1691.	4.9	23
54	Climate change adaptation strategies for transportation infrastructure in Prince George, Canada. <i>Regional Environmental Change</i> , 2016, 16, 1109-1120.	2.9	23

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55	Flow alteration impacts on Hudson Bay river discharge. <i>Hydrological Processes</i> , 2018, 32, 3576-3587.	2.6	23
56	Simulation of an Arctic Ground Blizzard Using a Coupled Blowing Snow Atmosphere Model. <i>Journal of Hydrometeorology</i> , 2001, 2, 579-598.	1.9	22
57	Reconstructing solid precipitation from snow depth measurements and a land surface model. <i>Water Resources Research</i> , 2005, 41, .	4.2	22
58	Reconstructing the Natural Streamflow of a Regulated River: A Case Study of La Grande Rivière, Québec, Canada. <i>Canadian Water Resources Journal</i> , 2010, 35, 301-316.	1.2	22
59	A spatio-temporal analysis of trends in Northern Hemisphere snow-dominated area and duration, 1971–2014. <i>Annals of Glaciology</i> , 2017, 58, 21-35.	1.4	21
60	Quantifying projected changes in runoff variability and flow regimes of the Fraser River Basin, British Columbia. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 811-828.	4.9	21
61	Sensitivity analysis and uncertainty assessment in water budgets simulated by the variable infiltration capacity model for Canadian subarctic watersheds. <i>Hydrological Processes</i> , 2020, 34, 2057-2075.	2.6	21
62	Some aspects of the hydroclimatology of the Quesnel River Basin, British Columbia, Canada. <i>Hydrological Processes</i> , 2009, 23, 1529-1536.	2.6	19
63	Determining contemporary and historical sediment sources in a large drainage basin impacted by cumulative effects: the regulated Nechako River, British Columbia, Canada. <i>Journal of Soils and Sediments</i> , 2019, 19, 3357-3373.	3.0	19
64	Climate change and water at Stelat'en First Nation, British Columbia, Canada: Insights from western science and traditional knowledge. <i>Canadian Geographer / Géographie Canadienne</i> , 2015, 59, 136-150.	1.5	18
65	Changing freshwater contributions to the Arctic. <i>Elementa</i> , 2021, 9, .	3.2	18
66	A Note On Surface Humidity Measurements In The Cold Canadian Environment. <i>Boundary-Layer Meteorology</i> , 2002, 102, 491-497.	2.3	17
67	Evaluating Passive Microwave Radiometry for the Dynamical Transition From Dry to Wet Snowpacks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 3-15.	6.3	17
68	Hydrological modeling of freshwater discharge into Hudson Bay using HYPE. <i>Elementa</i> , 2020, 8, .	3.2	17
69	Blowing Snow Fluxes in the Cariboo Mountains of British Columbia, Canada. <i>Arctic, Antarctic, and Alpine Research</i> , 2010, 42, 188-197.	1.1	16
70	Canadian Continental-Scale Hydrology under a Changing Climate: A Review. <i>Water (Switzerland)</i> , 2021, 13, 906.	2.7	16
71	Analysis of snow in the 20th and 21st century Geophysical Fluid Dynamics Laboratory coupled climate model simulations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	15
72	Impacts of variability and trends in runoff and water temperature on salmon migration in the Fraser River Basin, Canada. <i>Hydrological Sciences Journal</i> , 2015, 60, 523-533.	2.6	15

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73	Elevational Dependence of Air Temperature Variability and Trends in British Columbia's Cariboo Mountains, 1950–2010. <i>Atmosphere - Ocean</i> , 2016, 54, 153-170.	1.6	15
74	Climate change and resource development impacts in watersheds: Insights from the Nechako River Basin, Canada. <i>Canadian Geographer / Géographie Canadien</i> , 2017, 61, 196-211.	1.5	15
75	A strategy to represent impacts of subgrid-scale topography on snow evolution in the Canadian Land Surface Scheme. <i>Annals of Glaciology</i> , 2017, 58, 1-10.	1.4	15
76	Seasonal Turbidity Linked to Physical Dynamics in a Deep Lake Following the Catastrophic 2014 Mount Polley Mine Tailings Spill. <i>Water Resources Research</i> , 2020, 56, e2019WR025790.	4.2	15
77	The role of surface energy fluxes in pan-Arctic snow cover changes. <i>Environmental Research Letters</i> , 2011, 6, 035204.	5.2	14
78	Climatic influences on forest fire and mountain pine beetle outbreaks and resulting runoff effects in large watersheds in British Columbia, Canada. <i>Hydrological Processes</i> , 2020, 34, 4560-4575.	2.6	13
79	Intercomparison of Multiple Hydroclimatic Datasets across the Lower Nelson River Basin, Manitoba, Canada. <i>Atmosphere - Ocean</i> , 2019, 57, 262-278.	1.6	11
80	An evaluation of hydrometric monitoring across the Canadian pan-Arctic region, 1950–2008. <i>Hydrology Research</i> , 2011, 42, 479-490.	2.7	10
81	Snow distribution from SSM/I and its relationships to the hydroclimatology of the Mackenzie River Basin, Canada. <i>Advances in Water Resources</i> , 2010, 33, 667-677.	3.8	9
82	Cumulative Effects of Uncertainty on Simulated Streamflow in a Hydrologic Modeling Environment. <i>Elementa</i> , 2021, 9, .	3.2	9
83	Net Snowpack Accumulation and Ablation Characteristics in the Inland Temperate Rainforest of the Upper Fraser River Basin, Canada. <i>Hydrology</i> , 2014, 1, 1-19.	3.0	8
84	Variability and trends in runoff in the rivers of British Columbia's Coast and Insular Mountains. <i>Hydrological Processes</i> , 2017, 31, 3269-3282.	2.6	8
85	Shifting Spatial and Temporal Patterns in the Onset of Seasonally Snow-Dominated Conditions in the Northern Hemisphere, 1972–2017. <i>Journal of Climate</i> , 2019, 32, 4981-5001.	3.2	8
86	An alternative method for in-flight absolute radiometric calibration of thermal infrared channels of Chinese geostationary meteorological satellites. <i>International Journal of Remote Sensing</i> , 2010, 31, 791-803.	2.9	7
87	Vanishing weekly hydropeaking cycles in American and Canadian rivers. <i>Nature Communications</i> , 2021, 12, 7154.	12.8	7
88	Use of Ensemble-Based Gridded Precipitation Products for Assessing Input Data Uncertainty Prior to Hydrologic Modeling. <i>Water (Switzerland)</i> , 2020, 12, 2751.	2.7	6
89	Meteorological observations collected during the Storms and Precipitation Across the continental Divide Experiment (SPADE), April–June 2019. <i>Earth System Science Data</i> , 2021, 13, 1233-1249.	9.9	6
90	Linking Atmospheric Rivers to Annual and Extreme River Runoff in British Columbia and Southeastern Alaska. <i>Journal of Hydrometeorology</i> , 2020, 21, 2457-2472.	1.9	6

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91	Scenarios of climate change and natural resource development: Complexity and uncertainty in the Nechako Watershed. <i>Canadian Geographer / Geographie Canadien</i> , 2020, 64, 475-488.	1.5	5
92	Cumulative forest disturbances decrease runoff in two boreal forested watersheds of the northern interior of British Columbia, Canada. <i>Journal of Hydrology</i> , 2022, 605, 127362.	5.4	5
93	Intercomparison of atmospheric forcing datasets and two <scp>PBL</scp> schemes for precipitation modelling over a coastal valley in northern British Columbia, Canada. <i>Meteorological Applications</i> , 2022, 29, .	2.1	5
94	The Cariboo Alpine Mesonet: sub-hourly hydrometeorological observations of British Columbia's Cariboo Mountains and surrounding area since 2006. <i>Earth System Science Data</i> , 2018, 10, 1655-1672.	9.9	4
95	A synoptic climatology of potential seiche-inducing winds in a large intermontane lake: Quesnel Lake, British Columbia, Canada. <i>International Journal of Climatology</i> , 2020, 40, 5973-5986.	3.5	3
96	Reply to D. L. Peters' Comment on "Streamflow input to Lake Athabasca, Canada" by Rasouli et al. (2013). <i>Hydrology and Earth System Sciences</i> , 2015, 19, 1287-1292.	4.9	2
97	Suspended sediment dynamics in the proglacial zone of the rapidly retreating Castle Creek Glacier, British Columbia, Canada. , 0, , 313-325.		2
98	The Climatological Context of Trends in the Onset of Northern Hemisphere Seasonal Snow Cover, 1972-2017. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032367.	3.3	2
99	Sub-hourly water temperature data collected across the Nechako Watershed, 2019-2021. <i>Data in Brief</i> , 2022, 43, 108425.	1.0	1
100	Recent Studies on the Climatology and Modeling of Blowing Snow in the Mackenzie River Basin. , 2008, , 241-257.		0