

# John Pomeroy

## List of Publications by Year in descending order

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Version: 2024-02-01

254  
papers

15,211  
citations

14614

66  
h-index

24915

109  
g-index

326  
all docs

326  
docs citations

326  
times ranked

8321  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diagnosing changes in glacier hydrology from physical principles using a hydrological model with snow redistribution, sublimation, firnification and energy balance ablation algorithms. <i>Journal of Hydrology</i> , 2022, 608, 127545.	2.3	19
2	The sensitivity of snow hydrology to changes in air temperature and precipitation in three North American headwater basins. <i>Journal of Hydrology</i> , 2022, 606, 127460.	2.3	16
3	Fire and Ice: The Impact of Wildfire-Affected Albedo and Irradiance on Glacier Melt. <i>Earth's Future</i> , 2022, 10, .	2.4	15
4	Advances in modelling large river basins in cold regions with Modélisation Environnementale Communautaire-Surface and Hydrology (MESH), the Canadian hydrological land surface scheme. <i>Hydrological Processes</i> , 2022, 36, .	1.1	14
5	Assessing hydrological sensitivity of grassland basins in the Canadian Prairies to climate using a basin classification-based virtual modelling approach. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 1801-1819.	1.9	5
6	Recent hydrological response of glaciers in the Canadian Rockies to changing climate and glacier configuration. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2605-2616.	1.9	8
7	Large-area high spatial resolution albedo retrievals from remote sensing for use in assessing the impact of wildfire soot deposition on high mountain snow and ice melt. <i>Remote Sensing of Environment</i> , 2022, 278, 113101.	4.6	3
8	Scientific and Human Errors in a Snow Model Intercomparison. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E61-E79.	1.7	38
9	The Role of Basin Geometry in Mountain Snowpack Responses to Climate Change. <i>Frontiers in Water</i> , 2021, 3, .	1.0	4
10	Multi-scale snowdrift-permitting modelling of mountain snowpack. <i>Cryosphere</i> , 2021, 15, 743-769.	1.5	29
11	Quantifying the effects of Prairie depressional storage complexes on drainage basin connectivity. <i>Journal of Hydrology</i> , 2021, 593, 125846.	2.3	25
12	Icefield Breezes: Mesoscale Diurnal Circulation in the Atmospheric Boundary Layer Over an Outlet of the Columbia Icefield, Canadian Rockies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034225.	1.2	7
13	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.	3.7	6
14	Summary and synthesis of Changing Cold Regions Network (CCRN) research in the interior of western Canada - Part 2: Future change in cryosphere, vegetation, and hydrology. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1849-1882.	1.9	20
15	Subalpine forest water use behaviour and evapotranspiration during two hydrologically contrasting growing seasons in the Canadian Rockies. <i>Hydrological Processes</i> , 2021, 35, e14158.	1.1	9
16	The spatial extent of hydrological and landscape changes across the mountains and prairies of Canada in the Mackenzie and Nelson River basins based on data from a warm-season time window. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2513-2541.	1.9	3
17	Hydrometeorological, glaciological and geospatial research data from the Peyto Glacier Research Basin in the Canadian Rockies. <i>Earth System Science Data</i> , 2021, 13, 2875-2894.	3.7	8
18	Changes in the frequency of global high mountain rain-on-snow events due to climate warming. <i>Environmental Research Letters</i> , 2021, 16, 094021.	2.2	19

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19	WDPM: the Wetland DEM Ponding Model. Journal of Open Source Software, 2021, 6, 2276.	2.0	0
20	Sensitivity analysis of hydrological processes to perturbed climate in a southern boreal forest basin. Journal of Hydrology, 2021, 601, 126706.	2.3	6
21	Simulating site-scale permafrost hydrology: Sensitivity to modelling decisions and air temperature. Journal of Hydrology, 2021, 602, 126771.	2.3	5
22	Advances in the simulation of nutrient dynamics in cold climate agricultural basins: Developing new nitrogen and phosphorus modules for the Cold Regions Hydrological Modelling Platform. Journal of Hydrology, 2021, 603, 126901.	2.3	7
23	The Perils of Regridding: Examples using a Global Precipitation Dataset. Journal of Applied Meteorology and Climatology, 2021, , .	0.6	13
24	Synthesis of science: findings on Canadian Prairie wetland drainage. Canadian Water Resources Journal, 2021, 46, 229-241.	0.5	15
25	A streamflow-oriented ranking-based methodological framework to combine multiple precipitation datasets across large river basins. Journal of Hydrology, 2021, , 127174.	2.3	5
26	Seasonal ground ice impacts on spring ecohydrological conditions in a western boreal plains peatland. Hydrological Processes, 2020, 34, 765-779.	1.1	10
27	Spatial patterns of temporal changes in Canadian Prairie streamflow using an alternative trend assessment approach. Journal of Hydrology, 2020, 582, 124541.	2.3	10
28	Preferential elution of ionic solutes in melting snowpacks: Improving process understanding through field observations and modeling in the Rocky Mountains. Science of the Total Environment, 2020, 710, 136273.	3.9	5
29	Modelling nutrient dynamics in cold agricultural catchments: A review. Environmental Modelling and Software, 2020, 124, 104586.	1.9	17
30	The Nutrient App: Developing a smartphone application for on-site instantaneous community-based NO <sub>3</sub> and PO <sub>4</sub> monitoring. Environmental Modelling and Software, 2020, 133, 104829.	1.9	4
31	Predicting Variable Contributing Areas, Hydrological Connectivity, and Solute Transport Pathways for a Canadian Prairie Basin. Water Resources Research, 2020, 56, e2020WR027984.	1.7	18
32	Simulation of Preferential Flow in Snow With a Non-Equilibrium Richards Model and Evaluation Against Laboratory Data. Water Resources Research, 2020, 56, e2020WR027466.	1.7	4
33	A <sup>18</sup> O and <sup>2</sup> H stable water isotope analysis of subalpine forest water sources under seasonal and hydrological stress in the Canadian Rocky Mountains. Hydrological Processes, 2020, 34, 5642-5658.	1.1	10
34	Assessing the factors governing the ability to predict late-spring flooding in cold-region mountain basins. Hydrology and Earth System Sciences, 2020, 24, 2141-2165.	1.9	26
35	The Canadian Hydrological Model (CHM) v1.0: a multi-scale, multi-extent, variable-complexity hydrological model – design and overview. Geoscientific Model Development, 2020, 13, 225-247.	1.3	28
36	Diagnosis of future changes in hydrology for a Canadian Rockies headwater basin. Hydrology and Earth System Sciences, 2020, 24, 2731-2754.	1.9	25

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37	Assimilating snow observations to snow interception process simulations. <i>Hydrological Processes</i> , 2020, 34, 2229-2246.	1.1	9
38	A Finite Volume Blowing Snow Model for Use With Variable Resolution Meshes. <i>Water Resources Research</i> , 2020, 56, e2019WR025307.	1.7	29
39	Processes governing snow ablation in alpine terrain – detailed measurements from the Canadian Rockies. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 143-157.	1.9	16
40	Decoupling of warming mountain snowpacks from hydrological regimes. <i>Environmental Research Letters</i> , 2020, 15, 114006.	2.2	31
41	Freeze–Thaw Changes of Seasonally Frozen Ground on the Tibetan Plateau from 1960 to 2014. <i>Journal of Climate</i> , 2020, 33, 9427-9446.	1.2	45
42	Assessment of Extremes in Global Precipitation Products: How Reliable Are They?. <i>Journal of Hydrometeorology</i> , 2020, 21, 2855-2873.	0.7	28
43	High-resolution meteorological forcing data for hydrological modelling and climate change impact analysis in the Mackenzie River Basin. <i>Earth System Science Data</i> , 2020, 12, 629-645.	3.7	22
44	Signal processing for in situ detection of effective heat pulse probe spacing radius as the basis of a self-calibrating heat pulse probe. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2020, 9, 293-315.	0.6	2
45	Improving sub-canopy snow depth mapping with unmanned aerial vehicles: lidar versus structure-from-motion techniques. <i>Cryosphere</i> , 2020, 14, 1919-1935.	1.5	51
46	Warm-air entrainment and advection during alpine blowing snow events. <i>Cryosphere</i> , 2020, 14, 2795-2807.	1.5	2
47	Snow cover duration trends observed at sites and predicted by multiple models. <i>Cryosphere</i> , 2020, 14, 4687-4698.	1.5	14
48	Prairie water: a global water futures project to enhance the resilience of prairie communities through sustainable water management. <i>Canadian Water Resources Journal</i> , 2019, 44, 115-126.	0.5	12
49	Modelling the effects of permafrost loss on discharge from a wetland-dominated, discontinuous permafrost basin. <i>Hydrological Processes</i> , 2019, 33, 2607-2626.	1.1	9
50	Hydrological Responses of Headwater Basins to Monthly Perturbed Climate in the North American Cordillera. <i>Journal of Hydrometeorology</i> , 2019, 20, 863-882.	0.7	21
51	Preferential meltwater flowpaths as a driver of preferential elution of chemicals from melting snowpacks. <i>Science of the Total Environment</i> , 2019, 662, 110-120.	3.9	8
52	Detecting intercepted snow on mountain needleleaf forest canopies using satellite remote sensing. <i>Remote Sensing of Environment</i> , 2019, 231, 111222.	4.6	16
53	Implications of stubble management on snow hydrology and meltwater partitioning. <i>Canadian Water Resources Journal</i> , 2019, 44, 193-204.	0.5	12
54	Using an inverse modelling approach with equifinality control to investigate the dominant controls on snowmelt nutrient export. <i>Hydrological Processes</i> , 2019, 33, 2958-2977.	1.1	6

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55	A simple model for local-scale sensible and latent heat advection contributions to snowmelt. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1-17.	1.9	16
56	Are the effects of vegetation and soil changes as important as climate change impacts on hydrological processes?. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4933-4954.	1.9	33
57	Spatial variability of mean daily estimates of actual evaporation from remotely sensed imagery and surface reference data. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4891-4907.	1.9	3
58	Evaluation of SNODAS Snow Water Equivalent in Western Canada and Assimilation Into a Cold Region Hydrological Model. <i>Water Resources Research</i> , 2019, 55, 11166-11187.	1.7	17
59	Impact of Future Climate and Vegetation on the Hydrology of an Arctic Headwater Basin at the Tundra–Taiga Transition. <i>Journal of Hydrometeorology</i> , 2019, 20, 197-215.	0.7	23
60	Simulation of Capillary Pressure Overshoot in Snow Combining Trapping of the Wetting Phase With a Nonequilibrium Richards Equation Model. <i>Water Resources Research</i> , 2019, 55, 236-248.	1.7	13
61	Hydrometeorological data from Marmot Creek Research Basin, Canadian Rockies. <i>Earth System Science Data</i> , 2019, 11, 455-471.	3.7	11
62	A long-term hydrometeorological dataset (1993–2014) of a northern mountain basin: Wolf Creek Research Basin, Yukon Territory, Canada. <i>Earth System Science Data</i> , 2019, 11, 89-100.	3.7	18
63	The Effect of Coherent Structures in the Atmospheric Surface Layer on Blowing-Snow Transport. <i>Boundary-Layer Meteorology</i> , 2018, 167, 211.	1.2	7
64	Scale Interactions in Turbulence for Mountain Blowing Snow. <i>Journal of Hydrometeorology</i> , 2018, 19, 305-320.	0.7	10
65	Wetlands, Flood Control and Ecosystem Services in the Smith Creek Drainage Basin: A Case Study in Saskatchewan, Canada. <i>Ecological Economics</i> , 2018, 147, 36-47.	2.9	69
66	Water and energy fluxes over northern prairies as affected by chinook winds and winter precipitation. <i>Agricultural and Forest Meteorology</i> , 2018, 248, 372-385.	1.9	32
67	Challenges in Modeling Turbulent Heat Fluxes to Snowpacks in Forest Clearings. <i>Journal of Hydrometeorology</i> , 2018, 19, 1599-1616.	0.7	20
68	ESM-SnowMIP: assessing snow models and quantifying snow-related climate feedbacks. <i>Geoscientific Model Development</i> , 2018, 11, 5027-5049.	1.3	119
69	A numerical model for the simulation of snowpack solute dynamics to capture runoff ionic pulses during snowmelt: The PULSE model. <i>Advances in Water Resources</i> , 2018, 122, 37-48.	1.7	15
70	Precipitation characteristics and associated weather conditions on the eastern slopes of the Canadian Rockies during March–April 2015. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4491-4512.	1.9	12
71	Globally scalable alpine snow metrics. <i>Remote Sensing of Environment</i> , 2018, 213, 61-72.	4.6	33
72	Modeling the Snowpack Energy Balance during Melt under Exposed Crop Stubble. <i>Journal of Hydrometeorology</i> , 2018, 19, 1191-1214.	0.7	13

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73	Multi-objective unstructured triangular mesh generation for use in hydrological and land surface models. <i>Computers and Geosciences</i> , 2018, 119, 49-67.	2.0	18
74	Recent changes to the hydrological cycle of an Arctic basin at the tundra-taiga transition. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3993-4014.	1.9	21
75	Estimation of Needleleaf Canopy and Trunk Temperatures and Longwave Contribution to Melting Snow. <i>Journal of Hydrometeorology</i> , 2017, 18, 555-572.	0.7	32
76	Hydrological responses to climatic variability in a cold agricultural region. <i>Hydrological Processes</i> , 2017, 31, 854-870.	1.1	30
77	A modelling framework to simulate field-scale nitrate response and transport during snowmelt: The WINTRA model. <i>Hydrological Processes</i> , 2017, 31, 4250-4268.	1.1	28
78	Local-scale Advection of Sensible and Latent Heat During Snowmelt. <i>Geophysical Research Letters</i> , 2017, 44, 9769-9777.	1.5	33
79	Diagnosis of the hydrology of a small Arctic basin at the tundra-taiga transition using a physically based hydrological model. <i>Journal of Hydrology</i> , 2017, 550, 685-703.	2.3	52
80	Influence of snowpack and melt energy heterogeneity on snow cover depletion and snowmelt runoff simulation in a cold mountain environment. <i>Journal of Hydrology</i> , 2017, 553, 199-213.	2.3	52
81	Modelling capillary hysteresis effects on preferential flow through melting and cold layered snowpacks. <i>Advances in Water Resources</i> , 2017, 107, 250-264.	1.7	31
82	Assessing the quality of the streamflow record for a long-term reference hydrometric station: Bow River at Banff. <i>Canadian Water Resources Journal</i> , 2017, 42, 391-415.	0.5	7
83	Different sensitivities of snowpacks to warming in Mediterranean climate mountain areas. <i>Environmental Research Letters</i> , 2017, 12, 074006.	2.2	73
84	Simulating cold-region hydrology in an intensively drained agricultural watershed in Manitoba, Canada, using the Cold Regions Hydrological Model. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3483-3506.	1.9	24
85	An assessment of two automated snow water equivalent instruments during the WMO Solid Precipitation Intercomparison Experiment. <i>Cryosphere</i> , 2017, 11, 101-116.	1.5	44
86	Bias corrections of precipitation measurements across experimental sites in different ecoclimatic regions of western Canada. <i>Cryosphere</i> , 2016, 10, 2347-2360.	1.5	55
87	Accuracy of snow depth estimation in mountain and prairie environments by an unmanned aerial vehicle. <i>Cryosphere</i> , 2016, 10, 2559-2571.	1.5	86
88	Marmot Creek Experimental Watershed Study. <i>Forestry Chronicle</i> , 2016, 92, 32-36.	0.5	7
89	Near-surface snow particle dynamics from particle tracking velocimetry and turbulence measurements during alpine blowing-snow storms. <i>Cryosphere</i> , 2016, 10, 3043-3062.	1.5	20
90	The cold rain-on-snow event of June 2013 in the Canadian Rockies - characteristics and diagnosis. <i>Hydrological Processes</i> , 2016, 30, 2899-2914.	1.1	70

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91	The June 2013 Alberta Catastrophic Flooding Event: Part 1 – Climatological aspects and hydrometeorological features. <i>Hydrological Processes</i> , 2016, 30, 4899-4916.	1.1	23
92	Changes to flood peaks of a mountain river: implications for analysis of the 2013 flood in the Upper Bow River, Canada. <i>Hydrological Processes</i> , 2016, 30, 4657-4673.	1.1	26
93	Description of current and future snow processes in a small basin in the Bavarian Alps. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	17
94	Impact of climate warming on snow processes in Ny-Ålesund, a polar maritime site at Svalbard. <i>Global and Planetary Change</i> , 2016, 146, 10-21.	1.6	40
95	Aerodynamic and Radiative Controls on the Snow Surface Temperature. <i>Journal of Hydrometeorology</i> , 2016, 17, 2175-2189.	0.7	11
96	Impact of antecedent conditions on simulations of a flood in a mountain headwater basin. <i>Hydrological Processes</i> , 2016, 30, 2754-2772.	1.1	35
97	The effects of the management of Lake Diefenbaker on downstream flooding. <i>Canadian Water Resources Journal</i> , 2016, 41, 261-272.	0.5	12
98	Flood processes in Canada: Regional and special aspects. <i>Canadian Water Resources Journal</i> , 2016, 41, 7-30.	0.5	97
99	The 2013 flood event in the South Saskatchewan and Elk River basins: Causes, assessment and damages. <i>Canadian Water Resources Journal</i> , 2016, 41, 105-117.	0.5	97
100	Water Budgets in Ecosystems. , 2016, , 88-132.		3
101	SAS2: the system for acoustic sensing of snow. <i>Hydrological Processes</i> , 2015, 29, 4032-4050.	1.1	16
102	Hydrological resilience of a Canadian Rockies headwaters basin subject to changing climate, extreme weather, and forest management. <i>Hydrological Processes</i> , 2015, 29, 3905-3924.	1.1	72
103	A radiative – conductive – convective approach to calculate thaw season ground surface temperatures for modelling frost table dynamics. <i>Hydrological Processes</i> , 2015, 29, 3954-3965.	1.1	23
104	Impact of windflow calculations on simulations of alpine snow accumulation, redistribution and ablation. <i>Hydrological Processes</i> , 2015, 29, 3983-3999.	1.1	41
105	Snowpack sensitivity to perturbed climate in a cool mid-latitude mountain catchment. <i>Hydrological Processes</i> , 2015, 29, 3925-3940.	1.1	38
106	Measurement of the physical properties of the snowpack. <i>Reviews of Geophysics</i> , 2015, 53, 481-544.	9.0	151
107	Hydrological regime changes in a Canadian Prairie basin. <i>Hydrological Processes</i> , 2015, 29, 3893-3904.	1.1	129
108	The transformation of frequency distributions of winter precipitation to spring streamflow probabilities in cold regions; case studies from the Canadian Prairies. <i>Journal of Hydrology</i> , 2015, 521, 395-409.	2.3	53

#	ARTICLE	IF	CITATIONS
109	Physically Based Mountain Hydrological Modeling Using Reanalysis Data in Patagonia. <i>Journal of Hydrometeorology</i> , 2015, 16, 172-193.	0.7	55
110	Variability in shortwave irradiance caused by forest gaps: Measurements, modelling, and implications for snow energetics. <i>Agricultural and Forest Meteorology</i> , 2015, 207, 69-82.	1.9	62
111	Research network to track alpine water. <i>Nature</i> , 2015, 521, 32-32.	13.7	25
112	Variability in evaporation across the Canadian Prairie region during drought and non-drought periods. <i>Journal of Hydrology</i> , 2015, 521, 182-195.	2.3	26
113	Modelled sensitivity of the snow regime to topography, shrub fraction and shrub height. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2375-2392.	1.9	35
114	Sensitivity of model parameterizations for simulated latent heat flux at the snow surface for complex mountain sites. <i>Hydrological Processes</i> , 2014, 28, 868-881.	1.1	24
115	The effect of slope aspect on the response of snowpack to climate warming in the Pyrenees. <i>Theoretical and Applied Climatology</i> , 2014, 117, 207-219.	1.3	53
116	Simulating cold regions hydrological processes using a modular model in the west of China. <i>Journal of Hydrology</i> , 2014, 509, 13-24.	2.3	72
117	Hydrological model uncertainty due to precipitation phase partitioning methods. <i>Hydrological Processes</i> , 2014, 28, 4311-4327.	1.1	49
118	Hydrological sensitivity of a northern mountain basin to climate change. <i>Hydrological Processes</i> , 2014, 28, 4191-4208.	1.1	69
119	A shrub bending model to calculate the albedo of shrub-tundra. <i>Hydrological Processes</i> , 2014, 28, 341-351.	1.1	31
120	Response of snow processes to climate change: spatial variability in a small basin in the Spanish Pyrenees. <i>Hydrological Processes</i> , 2013, 27, 2637-2650.	1.1	87
121	An evaluation of methods for determining during-storm precipitation phase and the rain/snow transition elevation at the surface in a mountain basin. <i>Advances in Water Resources</i> , 2013, 55, 98-110.	1.7	136
122	Modeling increases in snowmelt yield and desynchronization resulting from forest gap thinning treatments in a northern mountain headwater basin. <i>Water Resources Research</i> , 2013, 49, 936-949.	1.7	62
123	A decade of Predictions in Ungauged Basins (PUB) – a review. <i>Hydrological Sciences Journal</i> , 2013, 58, 1198-1255.	1.2	821
124	A review of the Prediction in Ungauged Basins (PUB) decade in Canada. <i>Canadian Water Resources Journal</i> , 2013, 38, 253-262.	0.5	11
125	Storage dynamics simulations in prairie wetland hydrology models: evaluation and parameterization. <i>Hydrological Processes</i> , 2013, 27, 1875-1889.	1.1	95
126	Estimating precipitation phase using a psychrometric energy balance method. <i>Hydrological Processes</i> , 2013, 27, 1901-1914.	1.1	118



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127	Multi-variable evaluation of hydrological model predictions for a headwater basin in the Canadian Rocky Mountains. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1635-1659.	1.9	92
128	Statistical modelling of the snow depth distribution in open alpine terrain. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3005-3021.	1.9	100
129	Effects of classification approaches on CRHM model performance. <i>Remote Sensing Letters</i> , 2012, 3, 39-47.	0.6	5
130	Spatial Snow Depth Assessment Using LiDAR Transect Samples and Public GIS Data Layers in the Elbow River Watershed, Alberta. <i>Canadian Water Resources Journal</i> , 2012, 37, 69-87.	0.5	29
131	Effects of shelterbelts on snow distribution and sublimation. <i>Agroforestry Systems</i> , 2012, 86, 335-344.	0.9	19
132	Problems Closing the Energy Balance over a Homogeneous Snow Cover during Midwinter. <i>Journal of Hydrometeorology</i> , 2012, 13, 557-572.	0.7	54
133	Characteristics of the Near-Surface Boundary Layer within a Mountain Valley during Winter. <i>Journal of Applied Meteorology and Climatology</i> , 2012, 51, 583-597.	0.6	44
134	Sensitivity of snowmelt hydrology in Marmot Creek, Alberta, to forest cover disturbance. <i>Hydrological Processes</i> , 2012, 26, 1891-1904.	1.1	113
135	Implications of mountain shading on calculating energy for snowmelt using unstructured triangular meshes. <i>Hydrological Processes</i> , 2012, 26, 1767-1778.	1.1	52
136	Changes in the hydrological character of rainfall on the Canadian prairies. <i>Hydrological Processes</i> , 2012, 26, 1752-1766.	1.1	84
137	Estimating surface sublimation losses from snowpacks in a mountain catchment using eddy covariance and turbulent transfer calculations. <i>Hydrological Processes</i> , 2012, 26, 3699-3711.	1.1	64
138	Effects of needleleaf forest cover on radiation and snowmelt dynamics in the Canadian Rocky Mountains. <i>Canadian Journal of Forest Research</i> , 2011, 41, 608-620.	0.8	73
139	Multiple Effects of Changes in Arctic Snow Cover. <i>Ambio</i> , 2011, 40, 32-45.	2.8	169
140	Connectivity and runoff dynamics in heterogeneous basins. <i>Hydrological Processes</i> , 2011, 25, 3061-3075.	1.1	92
141	Memory effects of depressional storage in Northern Prairie hydrology. <i>Hydrological Processes</i> , 2011, 25, 3890-3898.	1.1	96
142	Reconstructing sixty year (1950-2009) daily soil moisture over the Canadian Prairies using the Variable Infiltration Capacity model. <i>Canadian Water Resources Journal</i> , 2011, 36, 83-102.	0.5	21
143	The Drought Research Initiative: A Comprehensive Examination of Drought over the Canadian Prairies. <i>Atmosphere - Ocean</i> , 2011, 49, 298-302.	0.6	15
144	Synthesis of incoming shortwave radiation for hydrological simulation. <i>Hydrology Research</i> , 2011, 42, 433-446.	1.1	25

#	ARTICLE	IF	CITATIONS
145	Drought Research Initiative Special Section on Evapotranspiration. Canadian Water Resources Journal, 2010, 35, 155-156.	0.5	0
146	Eastern Snow Conference. Hydrological Processes, 2010, 24, n/a-n/a.	1.1	0
147	Intercomparison of hydroclimatic regimes across northern catchments: synchronicity, resistance and resilience. Hydrological Processes, 2010, 24, 3591-3602.	1.1	103
148	A triple-moment blowing snow-atmospheric model and its application in computing the seasonal wintertime snow mass budget. Hydrology and Earth System Sciences, 2010, 14, 1063-1079.	1.9	17
149	Hydrological effects of the temporal variability of the multiscaling of snowfall on the Canadian prairies. Hydrology and Earth System Sciences, 2010, 14, 1195-1203.	1.9	10
150	Simulation of the snowmelt runoff contributing area in a small alpine basin. Hydrology and Earth System Sciences, 2010, 14, 1205-1219.	1.9	77
151	Measurements and modelling of snowmelt and turbulent heat fluxes over shrub tundra. Hydrology and Earth System Sciences, 2010, 14, 1331-1340.	1.9	37
152	Laboratory evidence for enhanced infiltration of ion load during snowmelt. Hydrology and Earth System Sciences, 2010, 14, 1365-1374.	1.9	8
153	Prediction of snowmelt derived streamflow in a wetland dominated prairie basin. Hydrology and Earth System Sciences, 2010, 14, 991-1006.	1.9	111
154	Comparison of algorithms and parameterisations for infiltration into organic-covered permafrost soils. Hydrology and Earth System Sciences, 2010, 14, 729-750.	1.9	56
155	Simulation of snow accumulation and melt in needleleaf forest environments. Hydrology and Earth System Sciences, 2010, 14, 925-940.	1.9	109
156	On the importance of sublimation to an alpine snow mass balance in the Canadian Rocky Mountains. Hydrology and Earth System Sciences, 2010, 14, 1401-1415.	1.9	114
157	Estimating Evaporation in a Prairie Landscape under Drought Conditions. Canadian Water Resources Journal, 2010, 35, 173-186.	0.5	23
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