

Yonas B Dibike

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

2,550
citations

25
h-index

50
g-index

59
ext. papers

2,903
ext. citations

4
avg, IF

5.28
L-index

#	Paper	IF	Citations
55	Model Induction with Support Vector Machines: Introduction and Applications. <i>Journal of Computing in Civil Engineering</i> , 2001 , 15, 208-216	5	369
54	Hydrologic impact of climate change in the Saguenay watershed: comparison of downscaling methods and hydrologic models. <i>Journal of Hydrology</i> , 2005 , 307, 145-163	6	353
53	Uncertainty analysis of statistical downscaling methods. <i>Journal of Hydrology</i> , 2006 , 319, 357-382	6	244
52	Arctic terrestrial hydrology: A synthesis of processes, regional effects, and research challenges. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 621-649	3.7	207
51	Downscaling Precipitation and Temperature with Temporal Neural Networks. <i>Journal of Hydrometeorology</i> , 2005 , 6, 483-496	3.7	119
50	Temporal neural networks for downscaling climate variability and extremes. <i>Neural Networks</i> , 2006 , 19, 135-44	9.1	113
49	Uncertainty analysis of statistically downscaled temperature and precipitation regimes in Northern Canada. <i>Theoretical and Applied Climatology</i> , 2008 , 91, 149-170	3	82
48	Climate-induced alteration of hydrologic indicators in the Athabasca River Basin, Alberta, Canada. <i>Journal of Hydrology</i> , 2017 , 544, 327-342	6	69
47	Modelling of climate-induced hydrologic changes in the Lake Winnipeg watershed. <i>Journal of Great Lakes Research</i> , 2012 , 38, 83-94	3	69
46	Inter-comparison of high-resolution gridded climate data sets and their implication on hydrological model simulation over the Athabasca Watershed, Canada. <i>Hydrological Processes</i> , 2014 , 28, 4250-4271	3.3	66
45	On the encapsulation of numerical-hydraulic models in artificial neural network. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1999 , 37, 147-161	1.9	64
44	Modeling the Arctic freshwater system and its integration in the global system: Lessons learned and future challenges. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 540-566	3.7	59
43	Uncertainty analysis of statistical downscaling methods using Canadian Global Climate Model predictors. <i>Hydrological Processes</i> , 2006 , 20, 3085-3104	3.3	52
42	Modeling Climate Change Impacts on Hydrology and Nutrient Loading in the Upper Assiniboine Catchment1. <i>Journal of the American Water Resources Association</i> , 2012 , 48, 74-89	2.1	47
41	Validation of hydrological models for climate scenario simulation: the case of Saguenay watershed in Quebec. <i>Hydrological Processes</i> , 2007 , 21, 3123-3135	3.3	43
40	Temperature change signals in northern Canada: convergence of statistical downscaling results using two driving GCMs. <i>International Journal of Climatology</i> , 2007 , 27, 1623-1641	3.5	43
39	Automatic calibration of groundwater models using global optimization techniques. <i>Hydrological Sciences Journal</i> , 1999 , 44, 879-894	3.5	42

38	Simulation of North American lake-ice cover characteristics under contemporary and future climate conditions. <i>International Journal of Climatology</i> , 2012 , 32, 695-709	3.5	39
37	Response of Northern Hemisphere lake-ice cover and lake-water thermal structure patterns to a changing climate. <i>Hydrological Processes</i> , 2011 , 25, n/a-n/a	3.3	37
36	Assessing the Effect of Climate Change on River Flow Using General Circulation Models and Hydrological Modelling [Application to the Chaudière River, Québec, Canada. <i>Canadian Water Resources Journal</i> , 2008 , 33, 73-94	1.7	34
35	Implications of future climate on water availability in the western Canadian river basins. <i>International Journal of Climatology</i> , 2017 , 37, 3247-3263	3.5	33
34	Comparative evaluation of the effects of climate and land-cover changes on hydrologic responses of the Muskeg River, Alberta, Canada. <i>Journal of Hydrology: Regional Studies</i> , 2016 , 8, 198-221	3.6	30
33	Modelling the Effects of Historical and Future Land Cover Changes on the Hydrology of an Amazonian Basin. <i>Water (Switzerland)</i> , 2018 , 10, 932	3	27
32	Recent Trends in Freshwater Influx to the Arctic Ocean from Four Major Arctic-Draining Rivers. <i>Water (Switzerland)</i> , 2020 , 12, 1189	3	26
31	Modelling the Athabasca watershed snow response to a changing climate. <i>Journal of Hydrology: Regional Studies</i> , 2018 , 15, 134-148	3.6	25
30	Changing spring air-temperature gradients along large northern rivers: Implications for severity of river-ice floods. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	25
29	Assessing the Need for Downscaling RCM Data for Hydrologic Impact Study. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011 , 16, 534-539	1.8	23
28	Application of artificial neural networks to the simulation of a two dimensional flow. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1999 , 37, 435-446	1.9	20
27	Applications of artificial neural networks to the generation of wave equations from hydraulic data. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1999 , 37, 81-97	1.9	18
26	A numerical framework for modelling sediment and chemical constituents transport in the Lower Athabasca River. <i>Journal of Soils and Sediments</i> , 2017 , 17, 1140-1159	3.4	17
25	Observed trends and future projections of precipitation and air temperature in the Lake Winnipeg watershed. <i>Journal of Great Lakes Research</i> , 2012 , 38, 72-82	3	16
24	Effects of projected climate on the hydrodynamic and sediment transport regime of the lower Athabasca River in Alberta, Canada. <i>River Research and Applications</i> , 2018 , 34, 417-429	2.3	15
23	An integrated numerical framework for water quality modelling in cold-region rivers: A case of the lower Athabasca River. <i>Science of the Total Environment</i> , 2016 , 569-570, 634-646	10.2	15
22	Modelling the potential effects of Oil-Sands tailings pond breach on the water and sediment quality of the Lower Athabasca River. <i>Science of the Total Environment</i> , 2018 , 642, 1263-1281	10.2	12
21	Ecological effects and causal synthesis of oil sands activity impacts on river ecosystems: water synthesis review. <i>Environmental Reviews</i> , 2021 , 29, 315-327	4.5	11

20	Two-dimensional numerical modelling of sediment and chemical constituent transport within the lower reaches of the Athabasca River. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 2286-2303 ^{5.1}	10
19	Western Canadian freshwater availability: current and future vulnerabilities. <i>Environmental Reviews</i> , 2020 , 28, 528-545	4.5 10
18	Numerical modelling of oil-sands tailings dam breach runout and overland flow. <i>Science of the Total Environment</i> , 2020 , 703, 134568	10.2 9
17	Effects of univariate and multivariate statistical downscaling methods on climatic and hydrologic indicators for Alberta, Canada. <i>Journal of Hydrology</i> , 2020 , 588, 125065	6 8
16	A Canadian River Ice Database from the National Hydrometric Program Archives. <i>Earth System Science Data</i> , 2020 , 12, 1835-1860	10.5 7
15	Modeling the effects of land cover change on sediment concentrations in a gold-mined Amazonian basin. <i>Regional Environmental Change</i> , 2019 , 19, 1801-1813	4.3 6
14	Neural Networks and Fuzzy Systems in Model Based Control of the Overwaard Polder. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2005 , 131, 135-145	2.8 6
13	Projected Changes in the Frequency of Peak Flows along the Athabasca River: Sensitivity of Results to Statistical Methods of Analysis. <i>Climate</i> , 2019 , 7, 88	3.1 5
12	Runoff Projection from an Alpine Watershed in Western Canada: Application of a Snowmelt Runoff Model. <i>Water (Switzerland)</i> , 2021 , 13, 1199	3 5
11	Application of dynamic contributing area for modelling the hydrologic response of the Assiniboine River Basin to a changing climate. <i>Journal of Great Lakes Research</i> , 2021 , 47, 663-676	3 5
10	Developing generic hydrodynamic models using artificial neural networks. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2002 , 40, 183-190	1.9 3
9	Snowpack response in the Assiniboine-Red River basin associated with projected global warming of 1.0°C to 3.0°C. <i>Journal of Great Lakes Research</i> , 2021 , 47, 677-689	3 3
8	Climatic Controls on Mean and Extreme Streamflow Changes Across the Permafrost Region of Canada. <i>Water (Switzerland)</i> , 2021 , 13, 626	3 3
7	TDNN with logical values for hydrologic modeling in a cold and snowy climate. <i>Journal of Hydroinformatics</i> , 2008 , 10, 289-300	2.6 2
6	Cold Region Hydrologic Models and Applications 2021 , 763-794	2
5	Effects of Climatic Drivers and Teleconnections on Late 20th Century Trends in Spring Freshet of Four Major Arctic-Draining Rivers. <i>Water (Switzerland)</i> , 2021 , 13, 179	3 1
4	Assessing and predicting the severity of mid-winter breakups based on Canada-wide river ice data. <i>Journal of Hydrology</i> , 2022 , 607, 127550	6 0
3	Assessing Climatic Drivers of Spring Mean and Annual Maximum Flows in Western Canadian River Basins. <i>Water (Switzerland)</i> , 2021 , 13, 1617	3 0

- 2 Machine-learning approach for predicting the occurrence and timing of mid-winter ice breakups on canadian rivers. *Environmental Modelling and Software*, **2022**, 152, 105402 5.2 0
- 1 Pipe Failure Prediction with Consideration of Climate Change **2019**, 1-15