

Robert Leconte

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6002049/publications.pdf>

Version: 2024-02-01

69
papers

2,948
citations

218677
26
h-index

168389
53
g-index

69
all docs

69
docs citations

69
times ranked

3032
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncertainty of downscaling method in quantifying the impact of climate change on hydrology. Journal of Hydrology, 2011, 401, 190-202.	5.4	546
2	Uncertainty of the impact of climate change on the hydrology of a nordic watershed. Journal of Hydrology, 2008, 358, 70-83.	5.4	322
3	Overall uncertainty study of the hydrological impacts of climate change for a Canadian watershed. Water Resources Research, 2011, 47, .	4.2	309
4	Uncertainty of hydrological modelling in climate change impact studies in a Canadian, snow-dominated river basin. Journal of Hydrology, 2011, 409, 626-636.	5.4	177
5	Adaptation to Climate Change in the Management of a Canadian Water-Resources System Exploited for Hydropower. Water Resources Management, 2009, 23, 2965-2986.	3.9	137
6	A daily stochastic weather generator for preserving low-frequency of climate variability. Journal of Hydrology, 2010, 388, 480-490.	5.4	127
7	Estimation of the summer-fall PMP and PMF of a northern watershed under a changed climate. Water Resources Research, 2013, 49, 3852-3862.	4.2	69
8	The impact of climate change on seasonal floods of a southern Quebec River Basin. Hydrological Processes, 2001, 15, 3167-3179.	2.6	65
9	Impacts and Uncertainty of Climate Change on Water Resource Management of the Peribonka River System (Canada). Journal of Water Resources Planning and Management - ASCE, 2010, 136, 376-385.	2.6	63
10	Stochastic multi-site generation of daily weather data. Stochastic Environmental Research and Risk Assessment, 2009, 23, 837-849.	4.0	45
11	Behaviour and Performance of a Water Resource System in QuÃ©bec (Canada) Under Adapted Operating Policies in a Climate Change Context. Water Resources Management, 2010, 24, 1333-1352.	3.9	45
12	A novel method to estimate the maximization ratio of the <scp>P</scp>robable <scp>M</scp>aximum <scp>P</scp>recipitation (<scp>P</scp>MP) using regional climate model output. Water Resources Research, 2016, 52, 7347-7365.	4.2	45
13	Mapping near-surface soil moisture with RADARSAT-1 synthetic aperture radar data. Water Resources Research, 2004, 40, .	4.2	44
14	Coupling statistical and dynamical methods for spatial downscaling of precipitation. Climatic Change, 2012, 114, 509-526.	3.6	41
15	Comparison of Stochastic Optimization Algorithms for Hydropower Reservoir Operation with Ensemble Streamflow Prediction. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	2.6	40
16	Effects of flow regulation on hydrologic patterns of a large, inland delta. River Research and Applications, 2001, 17, 51-65.	0.8	39
17	Stochastic Multisite Generation of Daily Precipitation Data Using Spatial Autocorrelation. Journal of Hydrometeorology, 2007, 8, 396-412.	1.9	37
18	Flood monitoring over the Mackenzie River Basin using passive microwave data. Remote Sensing of Environment, 2005, 98, 344-355.	11.0	36

#	ARTICLE	IF	CITATIONS
19	Restoring Ice-jam Floodwater to a Drying Delta Ecosystem. <i>Water International</i> , 2002, 27, 58-69.	1.0	35
20	Effectiveness of Multi-Site Weather Generator for Hydrological Modeling ¹ . <i>Journal of the American Water Resources Association</i> , 2011, 47, 303-314.	2.4	34
21	Assessing regression-based statistical approaches for downscaling precipitation over North America. <i>Hydrological Processes</i> , 2014, 28, 3482-3504.	2.6	34
22	Structural and Non-Structural Climate Change Adaptation Strategies for the P�ribonka Water Resource System. <i>Water Resources Management</i> , 2013, 27, 2075-2087.	3.9	33
23	Analysis of the hydrological response of a distributed physically-based model using post-assimilation (EnKF) diagnostics of streamflow and in situ soil moisture observations. <i>Journal of Hydrology</i> , 2014, 514, 192-201.	5.4	30
24	An Improved Stochastic Weather Generator for Hydrological Impact Studies. <i>Canadian Water Resources Journal</i> , 2008, 33, 233-256.	1.2	29
25	Impacts of global change on the concentrations and dilution of combined sewer overflows in a drinking water source. <i>Science of the Total Environment</i> , 2015, 508, 462-476.	8.0	29
26	Impacts of climate change on the frequency and severity of floods in the Ch�teauquay River basin, Canada. <i>Canadian Journal of Civil Engineering</i> , 2007, 34, 1048-1060.	1.3	27
27	Optimal Hydropower Generation Under Climate Change Conditions for a Northern Water Resources System. <i>Water Resources Management</i> , 2014, 28, 4631-4644.	3.9	27
28	Monitoring snow wetness in an Alpine Basin using combined C-band SAR and MODIS data. <i>Remote Sensing of Environment</i> , 2016, 183, 304-317.	11.0	26
29	A review of Canadian remote sensing applications in hydrology, 1995-1999. <i>Hydrological Processes</i> , 2000, 14, 1641-1666.	2.6	25
30	What is Missing from the Prescription of Hydrology for Land Surface Schemes?. <i>Journal of Hydrometeorology</i> , 2016, 17, 2013-2039.	1.9	25
31	Soil Moisture Profile Model for Two-Layered Soil Based on Sharp Wetting Front Approach. <i>Journal of Hydrologic Engineering - ASCE</i> , 2001, 6, 141-149.	1.9	23
32	Role of hydrologic information in stochastic dynamic programming: a case study of the Kemano hydropower system in British Columbia. <i>Canadian Journal of Civil Engineering</i> , 2014, 41, 839-844.	1.3	23
33	Quick Profiler (QuiP): a friendly tool to extract roughness statistical parameters using a needle profiler. <i>Canadian Journal of Remote Sensing</i> , 2010, 36, 391-396.	2.4	22
34	Modelling the impacts of global change on concentrations of <i>Escherichia coli</i> in an urban river. <i>Advances in Water Resources</i> , 2017, 108, 450-460.	3.8	22
35	Physical characterization of air inclusions in river ice. <i>Cold Regions Science and Technology</i> , 2007, 49, 179-194.	3.5	21
36	Combined assimilation of streamflow and snow water equivalent for mid-term ensemble streamflow forecasts in snow-dominated regions. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4375-4389.	4.9	21

#	ARTICLE	IF	CITATIONS
37	Assessing River Low-Flow Uncertainties Related to Hydrological Model Calibration and Structure under Climate Change Conditions. <i>Climate</i> , 2017, 5, 19.	2.8	20
38	Verification of ECMWF System 4 for seasonal hydrological forecasting in a northern climate. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5747-5762.	4.9	20
39	Hydrological monitoring of high-latitude shallow water bodies from high-resolution space-borne D-InSAR. <i>Remote Sensing of Environment</i> , 2020, 236, 111444.	11.0	19
40	Catchment-Scale Integrated Surface Water-Groundwater Hydrologic Modelling Using Conceptual and Physically Based Models: A Model Comparison Study. <i>Water (Switzerland)</i> , 2020, 12, 363.	2.7	18
41	A methodological framework to assess PMP and PMF in snow-dominated watersheds under changing climate conditions – A case study of three watersheds in Qu�bec (Canada). <i>Journal of Hydrology</i> , 2018, 561, 796-809.	5.4	16
42	Hydropower plant adaptation strategies for climate change impacts on hydrological regime. <i>Canadian Journal of Civil Engineering</i> , 2017, 44, 962-970.	1.3	14
43	Multi-day anchor ice cycles and bedload transport in a gravel-bed stream. <i>Journal of Hydrology</i> , 2014, 519, 364-375.	5.4	13
44	Long-Term Planning of Water Systems in the Context of Climate Non-Stationarity with Deterministic and Stochastic Optimization. <i>Water Resources Management</i> , 2018, 32, 1725-1739.	3.9	13
45	Modelling of shallow water table dynamics using conceptual and physically based integrated surface-water-groundwater hydrologic models. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2245-2260.	4.9	13
46	HISTORICAL EVOLUTION OF FLOODING DAMAGE ON A USA/QUEBEC RIVER BASIN. <i>Journal of the American Water Resources Association</i> , 2003, 39, 1385-1396.	2.4	12
47	Impacts and Adaptation to Climate Change Using a Reservoir Management Tool to a Northern Watershed: Application to Li�vre River Watershed, Quebec, Canada. <i>Water Resources Management</i> , 2014, 28, 3667-3680.	3.9	12
48	Climate Change and Floodplain Delineation in Two Southern Quebec River Basins1. <i>Journal of the American Water Resources Association</i> , 2011, 47, 785-799.	2.4	11
49	The impact of grain orientation and pebble surface roughness on the bond strength of simulated anchor ice. <i>Cold Regions Science and Technology</i> , 2013, 96, 36-44.	3.5	9
50	Evaluating Transition Probabilities for a Stochastic Dynamic Programming Model Used in Water System Optimization. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	2.6	9
51	Canada�s Contributions to the SWOT Mission – Terrestrial Hydrology(SWOT-CTH). <i>Canadian Journal of Remote Sensing</i> , 2019, 45, 116-138.	2.4	9
52	Uncertainties of Precipitable Water Calculations for PMP Estimates in Current and Future Climates. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, 04019066.	1.9	7
53	Exploring the Behaviour of Microwaves in a Snowpack Using Modelling Techniques. <i>Canadian Journal of Remote Sensing</i> , 1996, 22, 23-35.	2.4	6
54	Multi-Stage Inversion Method to Retrieve Soil Moisture from Passive Microwave Measurements over the Mackenzie River Basin. <i>Vadose Zone Journal</i> , 2013, 12, 1-12.	2.2	6

#	ARTICLE	IF	CITATIONS
55	On the Choice of Metric to Calibrate Time-Invariant Ensemble Kalman Filter Hyper-Parameters for Discharge Data Assimilation and Its Impact on Discharge Forecast Modelling. Hydrology, 2021, 8, 36.	3.0	6
56	Assessing the capabilities of the Surface Water and Ocean Topography (SWOT) mission for large lake water surface elevation monitoring under different wind conditions. Hydrology and Earth System Sciences, 2020, 24, 5985-6000.	4.9	6
57	Monitoring Snow-Cover Depletion by Coupling Satellite Imagery with a Distributed Snowmelt Model. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 71-78.	2.6	5
58	Short-Term Hydrological Forecast Using Artificial Neural Network Models with Different Combinations and Spatial Representations of Hydrometeorological Inputs. Water (Switzerland), 2022, 14, 552.	2.7	5
59	Changements climatiques et production hydroélectrique canadienne: où en sommes-nous?. Canadian Water Resources Journal, 2013, 38, 196-209.	1.2	4
60	Using Remotely Sensed MODIS Snow Product for the Management of Reservoirs in a Mountainous Canadian Watershed. Water Resources Management, 2016, 30, 2735-2747.	3.9	4
61	Parameter-state ensemble thinning for short-term hydrological prediction. Hydrology and Earth System Sciences, 2019, 23, 741-762.	4.9	4
62	Enhancing Spatial Resolution of SMAP Soil Moisture Products through Spatial Downscaling over a Large Watershed: A Case Study for the Susquehanna River Basin in the Northeastern United States. Remote Sensing, 2022, 14, 776.	4.0	4
63	Economic efficiency and investment timing for dual water systems. Water Resources Research, 1987, 23, 1807-1815.	4.2	3
64	On the Use of Multi Site Generated Meteorological Input Data for Realistic Hydrological Modeling in the Context of Climate Change Impact Studies. , 2006, , .		3
65	Évaluation du régime hydrologique du bassin versant de la rivière Manicouagan, au Québec, dans le contexte des changements climatiques. Canadian Journal of Civil Engineering, 2015, 42, 98-106.	1.3	2
66	Estimating Costs Model of Dual Water Supply Systems. Journal of Water Resources Planning and Management - ASCE, 1988, 114, 547-564.	2.6	1
67	Retrieval of Lake Ice Characteristics from SAR Imagery. Canadian Journal of Remote Sensing, 0, , 1-21.	2.4	1
68	AN APPLICATION OF INVESTMENT TIMING ANALYSIS: DUAL WATER SYSTEMS. Journal of the American Water Resources Association, 1988, 24, 247-253.	2.4	0
69	Modélisation de l'évapotranspirationnelle à l'échelle régionale pour des bassins versants situés dans la forêt boréale. Canadian Journal of Civil Engineering, 2005, 32, 839-852.	1.3	0