

Robert Leconte

List of Publications by Year in descending order

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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	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. <i>Remote Sensing</i> , 2022, 14, 776.	4.0	4
2	Short-Term Hydrological Forecast Using Artificial Neural Network Models with Different Combinations and Spatial Representations of Hydrometeorological Inputs. <i>Water (Switzerland)</i> , 2022, 14, 552.	2.7	5
3	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. <i>Hydrology</i> , 2021, 8, 36.	3.0	6
4	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
5	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
6	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
7	Assessing the capabilities of the Surface Water and Ocean Topography (SWOT) mission for large lake water surface elevation monitoring under different wind conditions. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 5985-6000.	4.9	6
8	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
9	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
10	Parameter-state ensemble thinning for short-term hydrological prediction. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 741-762.	4.9	4
11	A methodological framework to assess PMP and PMF in snow-dominated watersheds under changing climate conditions "A case study of three watersheds in Québec (Canada)". <i>Journal of Hydrology</i> , 2018, 561, 796-809.	5.4	16
12	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
13	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
14	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
15	Modelling the impacts of global change on concentrations of Escherichia coli in an urban river. <i>Advances in Water Resources</i> , 2017, 108, 450-460.	3.8	22
16	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
17	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
18	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

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19	Using Remotely Sensed MODIS Snow Product for the Management of Reservoirs in a Mountainous Canadian Watershed. <i>Water Resources Management</i> , 2016, 30, 2735-2747.	3.9	4
20	A novel method to estimate the maximization ratio of the P-probable M-maximum P-precipitation (P-MP) using regional climate model output. <i>Water Resources Research</i> , 2016, 52, 7347-7365.	4.2	45
21	What is Missing from the Prescription of Hydrology for Land Surface Schemes?. <i>Journal of Hydrometeorology</i> , 2016, 17, 2013-2039.	1.9	25
22	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
23	Comparison of Stochastic Optimization Algorithms for Hydropower Reservoir Operation with Ensemble Streamflow Prediction. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	40
24	Évaluation du régime hydrologique du bassin versant de la rivière Manicouagan, au Québec, dans le contexte des changements climatiques. <i>Canadian Journal of Civil Engineering</i> , 2015, 42, 98-106.	1.3	2
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	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
27	Assessing regression-based statistical approaches for downscaling precipitation over North America. <i>Hydrological Processes</i> , 2014, 28, 3482-3504.	2.6	34
28	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
29	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
30	Impacts and Adaptation to Climate Change Using a Reservoir Management Tool to a Northern Watershed: Application to Lièvre River Watershed, Quebec, Canada. <i>Water Resources Management</i> , 2014, 28, 3667-3680.	3.9	12
31	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
32	Structural and Non-Structural Climate Change Adaptation Strategies for the Péribonka Water Resource System. <i>Water Resources Management</i> , 2013, 27, 2075-2087.	3.9	33
33	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
34	Changements climatiques et production hydroélectrique canadienne: où en sommes-nous?. <i>Canadian Water Resources Journal</i> , 2013, 38, 196-209.	1.2	4
35	Estimation of the summer-fall PMP and PMF of a northern watershed under a changed climate. <i>Water Resources Research</i> , 2013, 49, 3852-3862.	4.2	69
36	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

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37	Coupling statistical and dynamical methods for spatial downscaling of precipitation. Climatic Change, 2012, 114, 509-526.	3.6	41
38	Overall uncertainty study of the hydrological impacts of climate change for a Canadian watershed. Water Resources Research, 2011, 47, .	4.2	309
39	Effectiveness of Multi-Site Weather Generator for Hydrological Modeling1. Journal of the American Water Resources Association, 2011, 47, 303-314.	2.4	34
40	Climate Change and Floodplain Delineation in Two Southern Quebec River Basins1. Journal of the American Water Resources Association, 2011, 47, 785-799.	2.4	11
41	Uncertainty of downscaling method in quantifying the impact of climate change on hydrology. Journal of Hydrology, 2011, 401, 190-202.	5.4	546
42	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
43	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
44	A daily stochastic weather generator for preserving low-frequency of climate variability. Journal of Hydrology, 2010, 388, 480-490.	5.4	127
45	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
46	Quick Profiler (QuIP): a friendly tool to extract roughness statistical parameters using a needle profiler. Canadian Journal of Remote Sensing, 2010, 36, 391-396.	2.4	22
47	Stochastic multi-site generation of daily weather data. Stochastic Environmental Research and Risk Assessment, 2009, 23, 837-849.	4.0	45
48	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
49	Uncertainty of the impact of climate change on the hydrology of a nordic watershed. Journal of Hydrology, 2008, 358, 70-83.	5.4	322
50	An Improved Stochastic Weather Generator for Hydrological Impact Studies. Canadian Water Resources Journal, 2008, 33, 233-256.	1.2	29
51	Physical characterization of air inclusions in river ice. Cold Regions Science and Technology, 2007, 49, 179-194.	3.5	21
52	Impacts of climate change on the frequency and severity of floods in the ChÃ¢teauquay River basin, Canada. Canadian Journal of Civil Engineering, 2007, 34, 1048-1060.	1.3	27
53	Stochastic Multisite Generation of Daily Precipitation Data Using Spatial Autocorrelation. Journal of Hydrometeorology, 2007, 8, 396-412.	1.9	37
54	On the Use of Multi Site Generated Meteorological Input Data for Realistic Hydrological Modeling in the Context of Climate Change Impact Studies. , 2006, , .		3

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55	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
56	Flood monitoring over the Mackenzie River Basin using passive microwave data. Remote Sensing of Environment, 2005, 98, 344-355.	11.0	36
57	Modélisation de l'évapotranspiration régionale 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
58	Mapping near-surface soil moisture with RADARSAT-1 synthetic aperture radar data. Water Resources Research, 2004, 40, .	4.2	44
59	HISTORICAL EVOLUTION OF FLOODING DAMAGE ON A USA/QUEBEC RIVER BASIN. Journal of the American Water Resources Association, 2003, 39, 1385-1396.	2.4	12
60	Restoring Ice-jam Floodwater to a Drying Delta Ecosystem. Water International, 2002, 27, 58-69.	1.0	35
61	The impact of climate change on seasonal floods of a southern Quebec River Basin. Hydrological Processes, 2001, 15, 3167-3179.	2.6	65
62	Effects of flow regulation on hydrologic patterns of a large, inland delta. River Research and Applications, 2001, 17, 51-65.	0.8	39
63	Soil Moisture Profile Model for Two-Layered Soil Based on Sharp Wetting Front Approach. Journal of Hydrologic Engineering - ASCE, 2001, 6, 141-149.	1.9	23
64	A review of Canadian remote sensing applications in hydrology, 1995-1999. Hydrological Processes, 2000, 14, 1641-1666.	2.6	25
65	Exploring the Behaviour of Microwaves in a Snowpack Using Modelling Techniques. Canadian Journal of Remote Sensing, 1996, 22, 23-35.	2.4	6
66	AN APPLICATION OF INVESTMENT TIMING ANALYSIS: DUAL WATER SYSTEMS. Journal of the American Water Resources Association, 1988, 24, 247-253.	2.4	0
67	Estimating Costs Model of Dual Water Supply Systems. Journal of Water Resources Planning and Management - ASCE, 1988, 114, 547-564.	2.6	1
68	Economic efficiency and investment timing for dual water systems. Water Resources Research, 1987, 23, 1807-1815.	4.2	3
69	Retrieval of Lake Ice Characteristics from SAR Imagery. Canadian Journal of Remote Sensing, 0, , 1-21.	2.4	1