

Marie Larocque

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,519
citations

361413

20
h-index

330143

37
g-index

70
all docs

70
docs citations

70
times ranked

1647
citing authors

#	ARTICLE	IF	CITATIONS
1	Contribution of correlation and spectral analyses to the regional study of a large karst aquifer (Charente, France). <i>Journal of Hydrology</i> , 1998, 205, 217-231.	5.4	323
2	Freedom Space for Rivers: A Sustainable Management Approach to Enhance River Resilience. <i>Environmental Management</i> , 2014, 54, 1056-1073.	2.7	140
3	Freedom space for rivers: An economically viable river management concept in a changing climate. <i>Geomorphology</i> , 2015, 251, 137-148.	2.6	83
4	Teleconnections and interannual variability in Canadian groundwater levels. <i>Journal of Hydrology</i> , 2011, 410, 178-188.	5.4	76
5	Methane Baseline Concentrations and Sources in Shallow Aquifers from the Shale Gas-Prone Region of the St. Lawrence Lowlands (Quebec, Canada). <i>Environmental Science & Technology</i> , 2015, 49, 4765-4771.	10.0	76
6	Investigating peat hydrological properties using field and laboratory methods: application to the Lanoraie peatland complex (southern Quebec, Canada). <i>Hydrological Processes</i> , 2008, 22, 1866-1875.	2.6	53
7	Determining the number of manual measurements required to improve peat thickness estimations by ground penetrating radar. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 377-383.	2.5	35
8	Estimating Flow Using Tracers and Hydraulics in Synthetic Heterogeneous Aquifers. <i>Ground Water</i> , 2009, 47, 786-796.	1.3	35
9	Groundwater recharge trends in Canada Geological Survey of Canada Contribution 20090009.. <i>Canadian Journal of Earth Sciences</i> , 2009, 46, 841-854.	1.3	35
10	Dynamics of a headwater system and peatland under current conditions and with climate change. <i>Hydrological Processes</i> , 2014, 28, 4808-4822.	2.6	33
11	A modeling study of heterogeneity and surface water-groundwater interactions in the Thomas Brook catchment, Annapolis Valley (Nova Scotia, Canada). <i>Hydrology and Earth System Sciences</i> , 2009, 13, 1583-1596.	4.9	32
12	²²² Rn activity in groundwater of the St. Lawrence Lowlands, Quebec, eastern Canada: relation with local geology and health hazard. <i>Journal of Environmental Radioactivity</i> , 2014, 136, 206-217.	1.7	30
13	Hydrological heterogeneity in agricultural riparian buffer strips. <i>Journal of Hydrology</i> , 2017, 546, 276-288.	5.4	30
14	Controls of groundwater floodwave propagation in a gravelly floodplain. <i>Journal of Hydrology</i> , 2014, 511, 423-431.	5.4	26
15	Linking groundwater quality to residence times and regional geology in the St. Lawrence Lowlands, southern Quebec, Canada. <i>Applied Geochemistry</i> , 2016, 65, 1-13.	3.0	26
16	A review of simulated climate change impacts on groundwater resources in Eastern Canada. <i>Canadian Water Resources Journal</i> , 2019, 44, 22-41.	1.2	26
17	Environmental factors explaining the vegetation patterns in a temperate peatland. <i>Comptes Rendus - Biologies</i> , 2009, 332, 720-731.	0.2	23
18	Quantification of peatland water storage capacity using the water table fluctuation method. <i>Hydrological Processes</i> , 2017, 31, 1184-1195.	2.6	23

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19	Using Water Stable Isotopes in the Unsaturated Zone to Quantify Recharge in Two Contrasted Infiltration Regimes. <i>Vadose Zone Journal</i> , 2018, 17, 1-13.	2.2	21
20	Examining the role of allogenuous and autogenous factors in the long-term dynamics of a temperate headwater peatland (southern Qu�bec, Canada). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 386, 336-348.	2.3	20
21	$3\text{H}/3\text{He}$, 14C and $(\text{U}/\text{Th})/\text{He}$ groundwater ages in the St. Lawrence Lowlands, Quebec, Eastern Canada. <i>Chemical Geology</i> , 2015, 413, 94-106.	3.3	20
22	Aquifer�peatland connectivity in southern Quebec (Canada). <i>Hydrological Processes</i> , 2015, 29, 2600-2612.	2.6	19
23	Calibration of a lumped karst system model and application to the Qachqouch karst spring (Lebanon) under climate change conditions. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4275-4290.	4.9	19
24	Insights from numerical modeling on the hydrodynamics of non-radial flow in faulted media. <i>Advances in Water Resources</i> , 2009, 32, 1170-1179.	3.8	18
25	Numerical modeling of the hydraulic signatures of horizontal and inclined faults. <i>Hydrogeology Journal</i> , 2012, 20, 337-350.	2.1	18
26	Potential Efficiency of Grassy or Shrub Willow Buffer Strips against Nutrient Runoff from Soybean and Corn Fields in Southern Quebec, Canada. <i>Journal of Environmental Quality</i> , 2019, 48, 352-361.	2.0	15
27	Simulation of long-term spatiotemporal variations in regional-scale groundwater recharge: contributions of a water budget approach in cold and humid climates. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 6567-6589.	4.9	15
28	Groundwater�surface water interactions in Canada. <i>Canadian Water Resources Journal</i> , 2016, 41, 451-454.	1.2	14
29	Processes controlling 234U and 238U isotope fractionation and helium in the groundwater of the St. Lawrence Lowlands, Quebec: The potential role of natural rock fracturing. <i>Applied Geochemistry</i> , 2016, 66, 198-209.	3.0	14
30	Benefits and limitations of using isotope-derived groundwater travel times and major ion chemistry to validate a regional groundwater flow model: example from the Centre-du-Qu�bec region, Canada. <i>Canadian Water Resources Journal</i> , 2018, 43, 195-213.	1.2	12
31	Results from the Quebec Groundwater Knowledge Acquisition Program. <i>Canadian Water Resources Journal</i> , 2018, 43, 69-74.	1.2	12
32	Climate Change Impacts on Groundwater Recharge in Cold and Humid Climates: Controlling Processes and Thresholds. <i>Climate</i> , 2022, 10, 6.	2.8	12
33	Anthropogenic and natural methane emissions from a shale gas exploration area of Quebec, Canada. <i>Science of the Total Environment</i> , 2016, 566-567, 1329-1338.	8.0	11
34	The potential of major ion chemistry to assess groundwater vulnerability of a regional aquifer in southern Quebec (Canada). <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	11
35	The role of hydrogeological setting in two Canadian peatlands investigated through 2D steady-state groundwater flow modelling. <i>Hydrological Sciences Journal</i> , 2017, 62, 2541-2557.	2.6	11
36	Mantle helium in Southern Quebec groundwater: A possible fossil record of the New England hotspot. <i>Earth and Planetary Science Letters</i> , 2020, 545, 116352.	4.4	11

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37	Simulation of Distributed Base Flow Contributions to Streamflow Using a Hillslope-Based Catchment Model Coupled to a Regional-Scale Groundwater Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, 907-917.	1.9	10
38	How do hydrogeological setting and meteorological conditions influence water table depth and fluctuations in ombrotrophic peatlands?. <i>Journal of Hydrology X</i> , 2019, 4, 100032.	1.6	10
39	Dynamique de lâ€™écoulement souterrain et vulnérabilité dâ€™un aquifère du piémont appalachien (Québec). <i>Journal of Hydrology</i> , 2019, 4, 100032.	0.2	10
40	Dynamics of groundwater floodwaves and groundwater flood events in an alluvial aquifer. <i>Canadian Water Resources Journal</i> , 2016, 41, 469-483.	1.2	9
41	Recent Vegetation Dynamics and Hydrological Changes in Bogs Located in an Agricultural Landscape. <i>Wetlands</i> , 2016, 36, 159-168.	1.5	9
42	Role of the geomorphic setting in controlling groundwater-surface water exchanges in riverine wetlands: A case study from two southern Québec rivers (Canada). <i>Canadian Water Resources Journal</i> , 2016, 41, 528-542.	1.2	9
43	Quantifying peat hydrodynamic properties and their influence on water table depths in peatlands of southern Quebec (Canada). <i>Ecohydrology</i> , 2018, 11, e1976.	2.4	9
44	Fracturing-induced release of radiogenic ⁴ He and ²³⁴ U into groundwater during the last deglaciation: An alternative source to crustal helium fluxes in periglacial aquifers. <i>Water Resources Research</i> , 2017, 53, 5677-5689.	4.2	8
45	Long-term trends in groundwater recharge and discharge in a fractured bedrock aquifer - past and future conditions. <i>Canadian Water Resources Journal</i> , 2016, 41, 500-514.	1.2	7
46	A Comparison of Two Stochastic Inverse Methods in a Field-Scale Application. <i>Ground Water</i> , 2003, 41, 15-23.	1.3	6
47	Exploring ²²² Rn as a tool for tracing groundwater inflows from eskers and moraines into slope peatlands of the Amos region of Quebec, Canada. <i>Journal of Environmental Radioactivity</i> , 2016, 164, 344-353.	1.7	6
48	A graphical approach for documenting peatland hydrodiversity and orienting land management strategies. <i>Hydrological Processes</i> , 2018, 32, 873-890.	2.6	6
49	Modeling cross-scale relationships between climate, hydrology, and individual animals: generating scenarios for stream salamanders. <i>Frontiers in Environmental Science</i> , 2015, 3, .	3.3	5
50	Groundwater age investigation of eskers in the Amos region, Quebec, Canada. <i>Journal of Hydrology</i> , 2015, 524, 1-14.	5.4	5
51	Regional assessment of concentrations and sources of pharmaceutically active compounds, pesticides, nitrate, and E. coli in post-glacial aquifer environments (Canada). <i>Science of the Total Environment</i> , 2017, 579, 557-568.	8.0	5
52	Écarts vécotaux indicatrices des changements d'eau entre tourbières et aquifères. <i>Le Naturaliste Canadien</i> , 2010, 138, 4-12.	0.2	4
53	Late Glacial and Holocene vegetation history in the northern foothills of the Adirondack Mountains. <i>Ecoscience</i> , 2015, 22, 59-70.	1.4	4
54	Perturbations des tourbières de la région de Bécancour, Centre-du-Québec, entre 1966 et 2010. <i>Le Naturaliste Canadien</i> , 2010, 137, 8-15.	0.2	3

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55	Examining the challenges of simulating surface water–groundwater interactions in a post-glacial environment. <i>Canadian Water Resources Journal</i> , 2018, 43, 262-280.	1.2	3
56	Vadose zone modeling to identify controls on groundwater recharge in an unconfined granular aquifer in a cold and humid environment with different meteorological data sources. <i>Hydrogeology Journal</i> , 2022, 30, 653-672.	2.1	3
57	High-resolution spatiotemporal analysis of hydrologic connectivity in the historical floodplain of straightened lowland agricultural streams. <i>River Research and Applications</i> , 2022, 38, 1061-1079.	1.7	2
58	Resilience of lake-edge wetlands to water level changes in a southern boreal lake. <i>Wetlands Ecology and Management</i> , 2021, 29, 867-881.	1.5	1
59	Regional-Scale Distribution of Helium Isotopes in Aquifers: How Informative Are They as Groundwater Tracers and Chronometers?. <i>Water (Switzerland)</i> , 2022, 14, 1940.	2.7	1
60	Modèle conceptuel de circulation hydrogéologique au niveau de l'aquifère plioquaternaire de Settât (Maroc) : Étude hydrogéochimique. <i>Revue Des Sciences De L'Eau</i> , 0, 31, 401-414.	0.2	0