

# Louis Duchesne

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

2,387  
citations

201674

27  
h-index

214800

47  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2260  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adding Tree Rings to North America's National Forest Inventories: An Essential Tool to Guide Drawdown of Atmospheric CO <sub>2</sub> . <i>BioScience</i> , 2022, 72, 233-246.	4.9	18
2	Tree transpiration well simulated by the Canadian Land Surface Scheme (CLASS) but not during drought. <i>Journal of Hydrology</i> , 2022, 604, 127196.	5.4	2
3	Smartforests Canada: A Network of Monitoring Plots for Forest Management Under Environmental Change. <i>Managing Forest Ecosystems</i> , 2022, , 521-543.	0.9	6
4	Pre-commercial thinning could mitigate drought stress of black spruce stands. <i>Forest Ecology and Management</i> , 2022, 517, 120278.	3.2	1
5	Characterizing Seasonal Radial Growth Dynamics of Balsam Fir in a Cold Environment Using Continuous Dendrometric Data: A Case Study in a 12-Year Soil Warming Experiment. <i>Sensors</i> , 2022, 22, 5155.	3.8	2
6	Evaluation of simulated soil moisture and temperature for a Canadian boreal forest. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109078.	4.8	4
7	Effect of tapping for syrup production on sugar maple tree growth in the Quebec Appalachians. <i>Trees - Structure and Function</i> , 2021, 35, 1-13.	1.9	4
8	Effects of climate and atmospheric deposition on a boreal lake chemistry: A synthesis of 36 years of monitoring data. <i>Science of the Total Environment</i> , 2021, 758, 143639.	8.0	16
9	Is the annual maximum leaf area index an important driver of water fluxes simulated by a land surface model in temperate forests?. <i>Canadian Journal of Forest Research</i> , 2021, 51, 595-603.	1.7	3
10	Long-Term Soil Fertility and Site Productivity in Stem-Only and Whole-Tree Harvested Stands in Boreal Forest of Quebec (Canada). <i>Forests</i> , 2021, 12, 583.	2.1	6
11	Digital mapping of soil texture in ecoforest polygons in Quebec, Canada. <i>PeerJ</i> , 2021, 9, e11685.	2.0	3
12	The "sweeter spot" for maple syrup production proposed by is not that sweet. <i>Forest Ecology and Management</i> , 2020, 458, 117662.	3.2	2
13	Vapour pressure deficit and solar radiation are the major drivers of transpiration of balsam fir and black spruce tree species in humid boreal regions, even during a short-term drought. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108063.	4.8	53
14	Liming improves sap characteristics of sugar maple over the long term. <i>Forest Ecology and Management</i> , 2020, 464, 118044.	3.2	7
15	Evidence of secondary sulfate production in the mineral soil of a temperate forested catchment in southern Qubec, Canada. <i>Applied Geochemistry</i> , 2019, 100, 279-286.	3.0	6
16	Large apparent growth increases in boreal forests inferred from tree-rings are an artefact of sampling biases. <i>Scientific Reports</i> , 2019, 9, 6832.	3.3	38
17	Boreal tree growth exhibits decadal-scale ecological memory to drought and insect defoliation, but no negative response to their interaction. <i>Journal of Ecology</i> , 2019, 107, 1288-1301.	4.0	49
18	Drought timing and local climate determine the sensitivity of eastern temperate forests to drought. <i>Global Change Biology</i> , 2018, 24, 2339-2351.	9.5	168

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19	Beneficial effects of climate warming on boreal tree growth may be transitory. <i>Nature Communications</i> , 2018, 9, 3213.	12.8	150
20	Response of northern hardwoods to experimental soil acidification and alkalisation after 20 years. <i>Forest Ecology and Management</i> , 2017, 400, 600-606.	3.2	15
21	Extracting coherent tree-ring climatic signals across spatial scales from extensive forest inventory data. <i>PLoS ONE</i> , 2017, 12, e0189444.	2.5	14
22	Can the Canadian drought code predict low soil moisture anomalies in the mineral soil? An analysis of 15 years of soil moisture data from three forest ecosystems in Eastern Canada. <i>Ecohydrology</i> , 2016, 9, 238-247.	2.4	8
23	Major losses of nutrients following a severe drought in a boreal forest. <i>Nature Plants</i> , 2016, 2, 16187.	9.3	24
24	Aboveground carbon in Quebec forests: stock quantification at the provincial scale and assessment of temperature, precipitation and edaphic properties effects on the potential stand-level stocking. <i>PeerJ</i> , 2016, 4, e1767.	2.0	10
25	Impacts of Climate Change on the Timing of the Production Season of Maple Syrup in Eastern Canada. <i>PLoS ONE</i> , 2015, 10, e0144844.	2.5	24
26	Response of canopy nitrogen uptake to a rapid decrease in bulk nitrate deposition in two eastern Canadian boreal forests. <i>Oecologia</i> , 2015, 177, 29-37.	2.0	57
27	Évolution du statut nutritif des sapinières à la Forêt Montmorency entre 1967 et 2011. <i>Le Naturaliste Canadien</i> , 2015, 139, 35-41.	0.2	1
28	Soil response to a 3-year increase in temperature and nitrogen deposition measured in a mature boreal forest using ion-exchange membranes. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 8191-8202.	2.7	24
29	Humus layer is the main locus of secondary SO <sub>4</sub> production in boreal forests. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 18-29.	3.9	12
30	Interannual and spatial variability of maple syrup yield as related to climatic factors. <i>PeerJ</i> , 2014, 2, e428.	2.0	16
31	A three-year increase in soil temperature and atmospheric N deposition has minor effects on the xylogenesis of mature balsam fir. <i>Trees - Structure and Function</i> , 2013, 27, 1525-1536.	1.9	11
32	Canopy disturbance and intertree competition: implications for tree growth and recruitment in two yellow birch-conifer stands in Quebec, Canada. <i>Journal of Forest Research</i> , 2013, 18, 168-178.	1.4	14
33	Etiology of a recent white spruce decline: role of potassium deficiency, past disturbances, and climate change. <i>Canadian Journal of Forest Research</i> , 2013, 43, 66-77.	1.7	14
34	Soil Thresholds Update for Diagnosing Foliar Calcium, Potassium, or Phosphorus Deficiency of Sugar Maple. <i>Communications in Soil Science and Plant Analysis</i> , 2013, 44, 2408-2427.	1.4	19
35	Partitioning the Effect of Release and Liming on Growth of Sugar Maple and American Beech Saplings. <i>Northern Journal of Applied Forestry</i> , 2013, 30, 28-36.	0.5	12
36	Increased soil temperature and atmospheric N deposition have no effect on the N status and growth of a mature balsam fir forest. <i>Biogeosciences</i> , 2013, 10, 4627-4639.	3.3	29

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37	The effect of seasonal drying on sulphate dynamics in streams across southeastern Canada and the northeastern USA. <i>Biogeochemistry</i> , 2012, 111, 393-409.	3.5	28
38	Base cation distribution and requirement of three common forest ecosystems in eastern Canada based on site-specific and general allometric equations. <i>Canadian Journal of Forest Research</i> , 2012, 42, 1796-1809.	1.7	9
39	Projections of Future Soil Temperature and Water Content for Three Southern Quebec Forested Sites. <i>Journal of Climate</i> , 2012, 25, 7690-7701.	3.2	96
40	Influence of climate on seasonal patterns of stem increment of balsam fir in a boreal forest of Qu�bec, Canada. <i>Agricultural and Forest Meteorology</i> , 2012, 162-163, 108-114.	4.8	78
41	Soil and sugar maple response 15years after dolomitic lime application. <i>Forest Ecology and Management</i> , 2012, 281, 130-139.	3.2	65
42	Isotopic compositions of S, N and C in soils and vegetation of three forest types in Qu�bec, Canada. <i>Applied Geochemistry</i> , 2011, 26, 2181-2190.	3.0	21
43	Modelling day-to-day stem diameter variation and annual growth of balsam fir ( <i>Abies balsamea</i> (L.) Mill.) in Quebec, Canada. <i>Journal of Applied Ecology</i> , 2011, 48, 107-114.	3.2	52
44	Comparisons of watershed sulfur budgets in southeast Canada and northeast US: new approaches and implications. <i>Biogeochemistry</i> , 2011, 103, 181-207.	3.5	75
45	Reply to comment by Messier et al. on "Present-day expansion of American beech in northeastern hardwood forests: Does soil base status matter?" <i>Canadian Journal of Forest Research</i> , 2011, 41, 654-659.	1.7	1
46	Nutrient transfer by leaf litterfall during a sugar maple decline episode at Lake Clair watershed, Qu�bec, Canada. <i>Plant Ecology</i> , 2010, 208, 213-221.	1.6	7
47	Effects of a spruce budworm outbreak on element export below the rooting zone: a case study for a balsam fir forest. <i>Annals of Forest Science</i> , 2009, 66, 707-707.	2.0	28
48	Modelling the effect of climate on maple syrup production in Qu�bec, Canada. <i>Forest Ecology and Management</i> , 2009, 258, 2683-2689.	3.2	25
49	Present-day expansion of American beech in northeastern hardwood forests: Does soil base status matter?. <i>Canadian Journal of Forest Research</i> , 2009, 39, 2273-2282.	1.7	35
50	Population dynamics of tree species in southern Quebec, Canada: 1970-2005. <i>Forest Ecology and Management</i> , 2008, 255, 3001-3012.	3.2	40
51	Soil properties and maple-beech regeneration a decade after liming in a northern hardwood stand. <i>Forest Ecology and Management</i> , 2008, 255, 3460-3468.	3.2	32
52	Sequential Extractions of Elements in Tree Rings of Balsam Fir and White Spruce. <i>Communications in Soil Science and Plant Analysis</i> , 2008, 39, 1138-1146.	1.4	8
53	Effects of experimental acidification and alkalization on soil and growth and health of <i>Acer saccharum</i> Marsh.. <i>Journal of Plant Nutrition and Soil Science</i> , 2008, 171, 858-871.	1.9	22
54	IMPACT OF NUTRIENT REMOVAL THROUGH HARVESTING ON THE SUSTAINABILITY OF THE BOREAL FOREST. <i>Ecological Applications</i> , 2008, 18, 1642-1651.	3.8	47

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55	Base Cation Cycling in a Pristine Watershed of the Canadian Boreal Forest. <i>Biogeochemistry</i> , 2006, 78, 195-216.	3.5	45
56	Base cation mineral weathering and total release rates from soils in three calibrated forest watersheds on the Canadian Boreal Shield. <i>Canadian Journal of Soil Science</i> , 2005, 85, 245-260.	1.2	64
57	Sulphate, Nitrogen and Base Cation Budgets at 21 Forested Catchments in Canada, the United States and Europe. <i>Environmental Monitoring and Assessment</i> , 2005, 109, 1-36.	2.7	176
58	Changes in structure and composition of maple-beech stands following sugar maple decline in QuÃ©bec, Canada. <i>Forest Ecology and Management</i> , 2005, 208, 223-236.	3.2	65
59	Assessment of sugar maple health based on basal area growth pattern. <i>Canadian Journal of Forest Research</i> , 2003, 33, 2074-2080.	1.7	93
60	Evaluation of the FORHYM2 model for prediction of hydrologic fluxes and soil temperature at the Lake Clair Watershed (Duchesnay, Quebec). <i>Forest Ecology and Management</i> , 2002, 159, 249-260.	3.2	19
61	Soil and Tree-Ring Chemistry Response to Liming in a Sugar Maple Stand. <i>Journal of Environmental Quality</i> , 2002, 31, 1993-2000.	2.0	35
62	Basal Area Growth of Sugar Maple in Relation to Acid Deposition, Stand Health, and Soil Nutrients. <i>Journal of Environmental Quality</i> , 2002, 31, 1676-1683.	2.0	140
63	Seasonal nutrient transfers by foliar resorption, leaching, and litter fall in a northern hardwood forest at Lake Clair Watershed, Quebec, Canada. <i>Canadian Journal of Forest Research</i> , 2001, 31, 333-344.	1.7	91
64	Title is missing!. <i>Water, Air and Soil Pollution</i> , 2001, 1, 119-134.	0.8	59
65	Response of the Lake Clair Watershed (Duchesnay, Quebec) to changes in precipitation chemistry (1988-1994). <i>Canadian Journal of Forest Research</i> , 1997, 27, 1813-1821.	1.7	86
66	Relation entre la composition foliaire et la prÃ©sence de la maladie corticale du hÃ¢tre dans les stations du RÃ©seau d'Ã©tude et de surveillance des Ã©cosystÃ©mes forestiers du QuÃ©bec. <i>Phytoprotection</i> , 0, 95, 0.3 32-37.		2