

Louis Duchesne

List of Publications by Year in descending order

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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	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
2	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
3	Beneficial effects of climate warming on boreal tree growth may be transitory. <i>Nature Communications</i> , 2018, 9, 3213.	12.8	150
4	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
5	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
6	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
7	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
8	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
9	Influence of climate on seasonal patterns of stem increment of balsam fir in a boreal forest of QuÃ©bec, Canada. <i>Agricultural and Forest Meteorology</i> , 2012, 162-163, 108-114.	4.8	78
10	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
11	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
12	Soil and sugar maple response 15years after dolomitic lime application. <i>Forest Ecology and Management</i> , 2012, 281, 130-139.	3.2	65
13	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
14	Title is missing!. <i>Water, Air and Soil Pollution</i> , 2001, 1, 119-134.	0.8	59
15	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
16	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
17	Modelling day-to-day stem diameter variation and annual growth of balsam fir (<i>Abies balsamea</i> (L.) Tj ETQq1 1 0.784314 rgBT/Overlo	3.2	52
18	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

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19	IMPACT OF NUTRIENT REMOVAL THROUGH HARVESTING ON THE SUSTAINABILITY OF THE BOREAL FOREST. <i>Ecological Applications</i> , 2008, 18, 1642-1651.	3.8	47
20	Base Cation Cycling in a Pristine Watershed of the Canadian Boreal Forest. <i>Biogeochemistry</i> , 2006, 78, 195-216.	3.5	45
21	Population dynamics of tree species in southern Quebec, Canada: 1970â€“2005. <i>Forest Ecology and Management</i> , 2008, 255, 3001-3012.	3.2	40
22	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
23	Soil and Treeâ€™Ring Chemistry Response to Liming in a Sugar Maple Stand. <i>Journal of Environmental Quality</i> , 2002, 31, 1993-2000.	2.0	35
24	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
25	Soil properties and mapleâ€™beech regeneration a decade after liming in a northern hardwood stand. <i>Forest Ecology and Management</i> , 2008, 255, 3460-3468.	3.2	32
26	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
27	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
28	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
29	Modelling the effect of climate on maple syrup production in QuÃ©bec, Canada. <i>Forest Ecology and Management</i> , 2009, 258, 2683-2689.	3.2	25
30	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
31	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
32	Major losses of nutrients following a severe drought in a boreal forest. <i>Nature Plants</i> , 2016, 2, 16187.	9.3	24
33	Effects of experimental acidification and alkalinization 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
34	Isotopic compositions of S, N and C in soils and vegetation of three forest types in QuÃ©bec, Canada. <i>Applied Geochemistry</i> , 2011, 26, 2181-2190.	3.0	21
35	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
36	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

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37	Adding Tree Rings to North America's National Forest Inventories: An Essential Tool to Guide Drawdown of Atmospheric CO ₂ . <i>BioScience</i> , 2022, 72, 233-246.	4.9	18
38	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
39	Interannual and spatial variability of maple syrup yield as related to climatic factors. <i>PeerJ</i> , 2014, 2, e428.	2.0	16
40	Response of northern hardwoods to experimental soil acidification and alkalinisation after 20 years. <i>Forest Ecology and Management</i> , 2017, 400, 600-606.	3.2	15
41	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
42	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
43	Extracting coherent tree-ring climatic signals across spatial scales from extensive forest inventory data. <i>PLoS ONE</i> , 2017, 12, e0189444.	2.5	14
44	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
45	Humus layer is the main locus of secondary SO ₄ production in boreal forests. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 18-29.	3.9	12
46	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
47	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
48	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
49	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
50	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
51	Nutrient transfer by leaf litterfall during a sugar maple decline episode at Lake Clair watershed, Québec, Canada. <i>Plant Ecology</i> , 2010, 208, 213-221.	1.6	7
52	Liming improves sap characteristics of sugar maple over the long term. <i>Forest Ecology and Management</i> , 2020, 464, 118044.	3.2	7
53	Evidence of secondary sulfate production in the mineral soil of a temperate forested catchment in southern Québec, Canada. <i>Applied Geochemistry</i> , 2019, 100, 279-286.	3.0	6
54	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

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55	Smartforests Canada: A Network of Monitoring Plots for Forest Management Under Environmental Change. <i>Managing Forest Ecosystems</i> , 2022, , 521-543.	0.9	6
56	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
57	Evaluation of simulated soil moisture and temperature for a Canadian boreal forest. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109078.	4.8	4
58	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
59	Digital mapping of soil texture in ecoforest polygons in Quebec, Canada. <i>PeerJ</i> , 2021, 9, e11685.	2.0	3
60	Relation entre la composition foliaire et la présence de la maladie corticale du hêtre dans les stations du Réseau d'étude et de surveillance des écosystèmes forestiers du Québec. <i>Phytoprotection</i> , 0, 95, 0.3 32-37.		2
61	The "sweet spot" for maple syrup production proposed by is not that sweet. <i>Forest Ecology and Management</i> , 2020, 458, 117662.	3.2	2
62	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
63	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
64	Reply to comment by Messier et al. on "Present-day expansion of American beech in northeastern hardwood forests: Does soil base status matter?" Appears in <i>Can. J. For. Res.</i> 39: 2273-2282 (2009).. <i>Canadian Journal of Forest Research</i> , 2011, 41, 654-659.	1.7	1
65	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
66	Pre-commercial thinning could mitigate drought stress of black spruce stands. <i>Forest Ecology and Management</i> , 2022, 517, 120278.	3.2	1