

# Rock Ouimet

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

2,787  
citations

159585

30  
h-index

189892

50  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2467  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic carbon, organic matter and bulk density relationships in boreal forest soils. Canadian Journal of Soil Science, 2008, 88, 315-325.	1.2	222
2	Drought timing and local climate determine the sensitivity of eastern temperate forests to drought. Global Change Biology, 2018, 24, 2339-2351.	9.5	168
3	Declining Acidic Deposition Begins Reversal of Forest-Soil Acidification in the Northeastern U.S. and Eastern Canada. Environmental Science & Technology, 2015, 49, 13103-13111.	10.0	164
4	Basal Area Growth of Sugar Maple in Relation to Acid Deposition, Stand Health, and Soil Nutrients. Journal of Environmental Quality, 2002, 31, 1676-1683.	2.0	140
5	Assessment of sugar maple health based on basal area growth pattern. Canadian Journal of Forest Research, 2003, 33, 2074-2080.	1.7	93
6	Seasonal nutrient transfers by foliar resorption, leaching, and litter fall in a northern hardwood forest at Lake Clair Watershed, Quebec, Canada. Canadian Journal of Forest Research, 2001, 31, 333-344.	1.7	91
7	Interactions of atmospheric deposition with a mixed hardwood and a coniferous forest canopy at the Lake Clair Watershed (Duchesnay, Quebec). Canadian Journal of Forest Research, 1999, 29, 1944-1957.	1.7	90
8	Response of the Lake Clair Watershed (Duchesnay, Quebec) to changes in precipitation chemistry (1988-1994). Canadian Journal of Forest Research, 1997, 27, 1813-1821.	1.7	86
9	Determination and Mapping Critical Loads of Acidity and Exceedances for Upland Forest Soils in Eastern Canada. Water, Air, and Soil Pollution, 2006, 172, 57-66.	2.4	84
10	Foliar deficiencies of sugar maple stands associated with soil cation imbalances in the Quebec Appalachians. Canadian Journal of Soil Science, 1995, 75, 169-175.	1.2	65
11	Changes in structure and composition of maple-beech stands following sugar maple decline in QuÃ©bec, Canada. Forest Ecology and Management, 2005, 208, 223-236.	3.2	65
12	Soil and sugar maple response 15years after dolomitic lime application. Forest Ecology and Management, 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. Canadian Journal of Soil Science, 2005, 85, 245-260.	1.2	64
14	Effects of liming on the nutrition, vigor, and growth of sugar maple at the Lake Clair Watershed, QuÃ©bec, Canada. Canadian Journal of Forest Research, 2000, 30, 725-732.	1.7	63
15	Title is missing!. Water, Air and Soil Pollution, 2001, 1, 119-134.	0.8	59
16	Prediction of organic carbon content in upland forest soils of Quebec, Canada. Canadian Journal of Forest Research, 2002, 32, 903-914.	1.7	51
17	Ten-year effect of dolomitic lime on the nutrition, crown vigor, and growth of sugar maple. Canadian Journal of Forest Research, 2006, 36, 1834-1841.	1.7	50
18	Base cation reservoirs in soil control the buffering capacity of lakes in forested catchments. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 471-474.	1.4	48

#	ARTICLE	IF	CITATIONS
19	Population dynamics of tree species in southern Quebec, Canada: 1970â€“2005. <i>Forest Ecology and Management</i> , 2008, 255, 3001-3012.	3.2	40
20	Measuring Environmental Change in Forest Ecosystems by Repeated Soil Sampling: A North American Perspective. <i>Journal of Environmental Quality</i> , 2013, 42, 623-639.	2.0	39
21	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
22	Effects of two silvicultural practices on soil fauna abundance in a northern hardwood forest, QuÃ©bec, Canada. <i>Canadian Journal of Soil Science</i> , 2002, 82, 105-113.	1.2	37
23	Soil organic sulfur dynamics in a coniferous forest. <i>Biogeochemistry</i> , 2001, 53, 105-124.	3.5	36
24	Decline of the maple-dominated forest in southern Quebec: impact of natural stresses and forest management. <i>Environmental Reviews</i> , 1996, 4, 133-148.	4.5	35
25	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
26	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
27	Changes in organic carbon storage in a 50 year white spruce plantation chronosequence established on fallow land in Quebec. <i>Canadian Journal of Forest Research</i> , 2006, 36, 2713-2723.	1.7	33
28	Effect of soil base saturation and endomycorrhization on growth and nutrient status of sugar maple seedlings. <i>Canadian Journal of Soil Science</i> , 1996, 76, 109-115.	1.2	32
29	Ecosystem carbon accumulation following fallow farmland afforestation with red pine in southern Quebec. <i>Canadian Journal of Forest Research</i> , 2007, 37, 1118-1133.	1.7	32
30	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
31	Estimation of coarse root biomass and nutrient content for sugar maple, jack pine, and black spruce using stem diameter at breast height. <i>Canadian Journal of Forest Research</i> , 2008, 38, 92-100.	1.7	32
32	Effect of soil K, Ca and Mg saturation and endomycorrhization on growth and nutrient uptake of sugar maple seedlings. <i>Plant and Soil</i> , 1996, 179, 207-216.	3.7	31
33	Reversal of Forest Soil Acidification in the Northeastern United States and Eastern Canada: Site and Soil Factors Contributing to Recovery. <i>Soil Systems</i> , 2020, 4, 54.	2.6	31
34	Determination of sample size for estimating ion throughfall deposition under a mixed hardwood forest at the Lake Clair Watershed (Duchesnay, Quebec). <i>Canadian Journal of Forest Research</i> , 1999, 29, 1935-1943.	1.7	30
35	Ecological benefits and risks arising from liming sugar maple dominated forests in northeastern North America. <i>Environmental Reviews</i> , 2015, 23, 66-77.	4.5	30
36	Local adaptation of trees at the range margins impacts range shifts in the face of climate change. <i>Global Ecology and Biogeography</i> , 2018, 27, 1507-1519.	5.8	29

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37	Foliar and wood chemistry of sugar maple along a gradient of soil acidity and stand health. <i>Plant and Soil</i> , 2007, 300, 173-183.	3.7	28
38	Effects of two Ca fertilizer types on sugar maple vitality. <i>Canadian Journal of Forest Research</i> , 2010, 40, 1985-1992.	1.7	25
39	Effects of liming on survival and reproduction of two potentially invasive earthworm species in a northern forest Podzol. <i>Soil Biology and Biochemistry</i> , 2013, 64, 174-180.	8.8	24
40	Endomycorrhizal status of sugar maple in relation to tree decline and foliar, fine-roots, and soil chemistry in the Beauce region, Quebec. <i>Canadian Journal of Botany</i> , 1995, 73, 1168-1175.	1.1	23
41	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
42	Effects of fertilization and liming on tree growth, vitality and nutrient status in boreal balsam fir stands. <i>Forest Ecology and Management</i> , 2015, 345, 39-49.	3.2	22
43	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
44	Stand composition and structure as indicators of epixylic diversity in old-growth boreal forests. <i>Ecoscience</i> , 2009, 16, 183-196.	1.4	19
45	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
46	White Spruce Plantations on Abandoned Agricultural Land: Are They More Effective as C Sinks than Natural Succession?. <i>Forests</i> , 2013, 4, 1141-1157.	2.1	19
47	Long-term response of forest plantation productivity and soils to a single application of municipal biosolids. <i>Canadian Journal of Soil Science</i> , 2015, 95, 187-199.	1.2	17
48	Nine years of in situ soil warming and topography impact the temperature sensitivity and basal respiration rate of the forest floor in a Canadian boreal forest. <i>PLoS ONE</i> , 2019, 14, e0226909.	2.5	17
49	Effects of two silvicultural practices on ground beetles (Coleoptera: Carabidae) in a northern hardwood forest, Quebec, Canada. <i>Canadian Journal of Forest Research</i> , 2004, 34, 959-968.	1.7	16
50	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
51	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
52	Extracting coherent tree-ring climatic signals across spatial scales from extensive forest inventory data. <i>PLoS ONE</i> , 2017, 12, e0189444.	2.5	14
53	Using compositional change within soil profiles for modelling base cation transport and chemical weathering. <i>Geoderma</i> , 2008, 145, 410-418.	5.1	13
54	Effects of two types of Ca fertilizer on sugar maple nutrition, vigor and growth after 7years. <i>Forest Ecology and Management</i> , 2014, 320, 1-5.	3.2	13

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55	Uptake of Al, Ca, and P in black spruce seedlings: Effect of organic versus inorganic al in nutrient solutions.. <i>Water, Air, and Soil Pollution</i> , 1986, 31, 367-375.	2.4	12
56	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
57	Methods of Soil Resampling to Monitor Changes in the Chemical Concentrations of Forest Soils. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	11
58	Comparing soil profiles of adjacent forest stands with contrasting tree densities: lichen woodlands vs. black spruceâ€“feathermoss stands in the continuous boreal forest. <i>Canadian Journal of Soil Science</i> , 2018, 98, 458-468.	1.2	11
59	Partitioning risks of tree mortality by modes of death in managed and unmanaged northern hardwoods and mixedwoods. <i>Forestry Chronicle</i> , 2017, 93, 246-258.	0.6	10
60	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
61	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
62	Greenhouse Gas Emissions after Application of Landfilled Paper Mill Sludge for Land Reclamation of a Nonacidic Mine Tailings Site. <i>Journal of Environmental Quality</i> , 2017, 46, 950-960.	2.0	9
63	Wood ash application in sugar maple stands rapidly improves nutritional status and growth at various developmental stages. <i>Forest Ecology and Management</i> , 2021, 489, 119062.	3.2	9
64	Liming still positively influences sugar maple nutrition, vigor and growth, 20Âyears after a single application. <i>Forest Ecology and Management</i> , 2021, 490, 119103.	3.2	9
65	Afforestation of abandoned agricultural lands for carbon sequestration: how does it compare with natural succession?. <i>Plant and Soil</i> , 2022, 475, 605-621.	3.7	8
66	EFFETS DE LA COMPOSITION DU SUBSTRAT TOURBEUX ET DU VOLUME DES SACS DE CULTURE SUR LA PRODUCTIVITÃ‰ DE LA TOMATE DE SERRE. <i>Canadian Journal of Plant Science</i> , 1990, 70, 585-590.	0.9	7
67	Nutrient transfer by leaf litterfall during a sugar maple decline episode at Lake Clair watershed, QuÃ©bec, Canada. <i>Plant Ecology</i> , 2010, 208, 213-221.	1.6	7
68	Liming improves sap characteristics of sugar maple over the long term. <i>Forest Ecology and Management</i> , 2020, 464, 118044.	3.2	7
69	Large-Scale Variations in Lumber Value Recovery of Yellow Birch and Sugar Maple in Quebec, Canada. <i>PLoS ONE</i> , 2015, 10, e0136674.	2.5	6
70	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
71	Ã‰volution des stocks de carbone organique dans le solaprÃˆs coupe dans la sapiniÃˆre Ã bouleau jaune de l'est du QuÃ©bec. <i>Canadian Journal of Soil Science</i> , 2000, 80, 507-514.	1.2	5
72	Canopy Nitrogen Addition and Soil Warming Affect Conifer Seedlingsâ€™ Phenology but Have Limited Impact on Growth and Soil N Mineralization in Boreal Forests of Eastern Canada. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	5

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73	Relationships between Structure, Composition, and Dynamics of the Pristine Northern Boreal Forest and Air Temperature, Precipitation, and Soil Texture in Quebec (Canada). <i>International Journal of Forestry Research</i> , 2009, 2009, 1-13.	0.8	4
74	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
75	Digital mapping of soil texture in ecoforest polygons in Quebec, Canada. <i>PeerJ</i> , 2021, 9, e11685.	2.0	3
76	Prolifération des fougères dans les forêts du Québec: ampleur du phénomène et moyens de le contrer. <i>Le Naturaliste Canadien</i> , 0, 140, 32-41.	0.2	3
77	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.	0.3	2
78	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
79	Effet du chaulage sur la survie et la reproduction de 3 espèces de vers de terre exotiques potentiellement envahissantes dans les forêts du Québec. <i>Le Naturaliste Canadien</i> , 2015, 139, 14-19.	0.2	1
80	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
81	A review of exotic earthworm observations in the Canadian boreal forest and taiga zones. <i>Environmental Reviews</i> , 0, , .	4.5	1
82	Aluminum Speciation in Soil Solutions: Equilibrium Calculations. , 1986, , 1413-1420.		0