

# Dominique Arseneault

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

2,746  
citations

186265  
28  
h-index

197818  
49  
g-index

79  
all docs

79  
docs citations

79  
times ranked

2487  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Spruce budworm outbreaks in eastern Quebec over the last 450 years. <i>Canadian Journal of Forest Research</i> , 2004, 34, 1035-1043.	1.7	156
3	Resistance of the boreal forest to high burn rates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13888-13893.	7.1	123
4	Logging pattern and landscape changes over the last century at the boreal and deciduous forest transition in Eastern Canada. <i>Landscape Ecology</i> , 2009, 24, 171-184.	4.2	120
5	Increasing fire and the decline of fire adapted black spruce in the boreal forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	107
6	Tree rings reveal globally coherent signature of cosmogenic radiocarbon events in 774 and 993 CE. <i>Nature Communications</i> , 2018, 9, 3605.	12.8	98
7	Stronger influence of anthropogenic disturbance than climate change on century-scale compositional changes in northern forests. <i>Nature Communications</i> , 2019, 10, 1265.	12.8	98
8	Climate change refugia in boreal North America: what, where, and for how long?. <i>Frontiers in Ecology and the Environment</i> , 2020, 18, 261-270.	4.0	91
9	Impact of fire behavior on postfire forest development in a homogeneous boreal landscape. <i>Canadian Journal of Forest Research</i> , 2001, 31, 1367-1374.	1.7	86
10	Volcano-induced regime shifts in millennial tree-ring chronologies from northeastern North America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10077-10082.	7.1	82
11	Dendrochronological reconstruction of spruce budworm ( <i>Choristoneura fumiferana</i> ) outbreaks in southern Quebec for the last 400 years <sup>1</sup> This article is one of a selection of papers from the 7th International Conference on Disturbance Dynamics in Boreal Forests.. <i>Canadian Journal of Forest Research</i> , 2012, 42, 1264-1276.	1.7	81
12	Wildland fire risk research in Canada. <i>Environmental Reviews</i> , 2020, 28, 164-186.	4.5	69
13	Prominent role of volcanism in Common Era climate variability and human history. <i>Dendrochronologia</i> , 2020, 64, 125757.	2.2	66
14	Estimating Lichen Biomass and Caribou Grazing on the Wintering Grounds of Northern Quebec: An Application of Fire History and Landsat Data. <i>Journal of Applied Ecology</i> , 1997, 34, 65.	4.0	62
15	RECONSTRUCTION OF MILLENNIAL FOREST DYNAMICS FROM TREE REMAINS IN A SUBARCTIC TREE LINE PEATLAND. <i>Ecology</i> , 1997, 78, 1873-1883.	3.2	61
16	A Postfire Shift From Lichen-Spruce to Lichen-Tundra Vegetation at Tree Line. <i>Ecology</i> , 1992, 73, 1067-1081.	3.2	60
17	Logging-induced change (1930-2002) of a preindustrial landscape at the northern range limit of northern hardwoods, eastern Canada. <i>Canadian Journal of Forest Research</i> , 2006, 36, 505-517.	1.7	60
18	Change from pre-settlement to present-day forest composition reconstructed from early land survey records in eastern Qu�bec, Canada. <i>Journal of Vegetation Science</i> , 2011, 22, 564-575.	2.2	59

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19	The influence of decision-making in tree ring-based climate reconstructions. <i>Nature Communications</i> , 2021, 12, 3411.	12.8	59
20	Fire deficit increases wildfire risk for many communities in the Canadian boreal forest. <i>Nature Communications</i> , 2020, 11, 2121.	12.8	53
21	Climate change will affect the ability of forest management to reduce gaps between current and presettlement forest composition in southeastern Canada. <i>Landscape Ecology</i> , 2019, 34, 159-174.	4.2	52
22	The millennial dynamics of a boreal forest stand from buried trees. <i>Journal of Ecology</i> , 2004, 92, 490-504.	4.0	49
23	Spatial and temporal dimensions of fire activity in the fire-prone eastern Canadian taiga. <i>Global Change Biology</i> , 2017, 23, 1152-1166.	9.5	49
24	Potential impacts of climate change on the habitat of boreal woodland caribou. <i>Ecosphere</i> , 2018, 9, e02472.	2.2	39
25	Logging history (1820–2000) of a heavily exploited southern boreal forest landscape: Insights from sunken logs and forestry maps. <i>Forest Ecology and Management</i> , 2009, 258, 1359-1368.	3.2	38
26	Fire disturbance during climate change: failure of postfire forest recovery on a boreal floodplain. <i>Canadian Journal of Forest Research</i> , 2004, 34, 2294-2305.	1.7	37
27	LANDSCAPE CHANGE FOLLOWING DEFORESTATION AT THE ARCTIC TREE LINE IN QUÉBEC, CANADA. <i>Ecology</i> , 1997, 78, 693-706.	3.2	34
28	A millennial summer temperature reconstruction for northeastern Canada using oxygen isotopes in subfossil trees. <i>Climate of the Past</i> , 2015, 11, 1153-1164.	3.4	34
29	Pre-industrial landscape composition patterns and post-industrial changes at the temperate-boreal forest interface in western Quebec, Canada. <i>Journal of Vegetation Science</i> , 2016, 27, 470-481.	2.2	31
30	Impacts of recurring ice jams on channel geometry and geomorphology in a small high-boreal watershed. <i>Geomorphology</i> , 2009, 108, 273-281.	2.6	30
31	Asynchronous forest-stream coupling in a fire-prone boreal landscape: insights from woody debris. <i>Journal of Ecology</i> , 2007, 95, 789-801.	4.0	29
32	Fire is a stronger driver of forest composition than logging in the boreal forest of eastern Canada. <i>Journal of Vegetation Science</i> , 2017, 28, 57-68.	2.2	27
33	Fire Regime along Latitudinal Gradients of Continuous to Discontinuous Coniferous Boreal Forests in Eastern Canada. <i>Forests</i> , 2016, 7, 211.	2.1	26
34	Bayesian multiproxy temperature reconstruction with black spruce ring widths and stable isotopes from the northern Quebec taiga. <i>Climate Dynamics</i> , 2017, 49, 4107-4119.	3.8	26
35	The North American tree-ring fire-scar network. <i>Ecosphere</i> , 2022, 13, .	2.2	26
36	An early forest inventory indicates high accuracy of forest composition data in pre-settlement land survey records. <i>Journal of Vegetation Science</i> , 2014, 25, 691-702.	2.2	25

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37	Spatial analysis of black spruce ( <i>Picea mariana</i> (Mill.) B.S.P.) radial growth response to climate in northern Québec Labrador Peninsula, Canada. Canadian Journal of Forest Research, 2015, 45, 343-352.	1.7	24
38	Eastern white cedar long-term dynamics in eastern Canada: Implications for restoration in the context of ecosystem-based management. Forest Ecology and Management, 2017, 400, 502-510.	3.2	23
39	Millennial stocks and fluxes of large woody debris in lakes of the northern American taiga. Journal of Ecology, 2014, 102, 367-380.	4.0	21
40	Long-term compositional changes following partial disturbance revealed by the resurvey of logging concession limits in the northern temperate forest of eastern Canada. Canadian Journal of Forest Research, 2016, 46, 943-949.	1.7	21
41	Carbon and oxygen isotopes of lakeshore black spruce trees in northeastern Canada as proxies for climatic reconstruction. Chemical Geology, 2014, 374-375, 37-43.	3.3	20
42	Evaluating the integrity of C and O isotopes in sub-fossil wood from boreal lakes. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 348-349, 21-31.	2.3	19
43	Developing millennial tree ring chronologies in the fire-prone North American boreal forest. Journal of Quaternary Science, 2013, 28, 283-292.	2.1	19
44	Ecophysiological modeling of photosynthesis and carbon allocation to the tree stem in the boreal forest. Biogeosciences, 2017, 14, 4851-4866.	3.3	18
45	Hydro-climatic analysis of mechanical breakups reconstructed from tree-rings, Necopastic watershed, northern Québec, Canada. Journal of Hydrology, 2009, 375, 373-382.	5.4	17
46	Stand Age Influence on Potential Wildfire Ignition and Spread in the Boreal Forest of Northeastern Canada. Ecosystems, 2018, 21, 1471-1486.	3.4	17
47	A framework for modeling habitat quality in disturbance-prone areas demonstrated with woodland caribou and wildfire. Ecosphere, 2017, 8, e01787.	2.2	16
48	Biases in RCS tree ring chronologies due to sampling heights of trees. Dendrochronologia, 2015, 36, 13-22.	2.2	15
49	Scale-dependent changes in tree diversity over more than a century in eastern Canada: Landscape diversification and regional homogenization. Journal of Ecology, 2021, 109, 273-283.	4.0	14
50	Millennial disturbance-driven forest stand dynamics in the Eastern Canadian taiga reconstructed from subfossil logs. Journal of Ecology, 2014, 102, 1612-1622.	4.0	13
51	Temperature sensitivity of blue intensity, maximum latewood density, and ring width data of living black spruce trees in the eastern Canadian taiga. Dendrochronologia, 2020, 64, 125771.	2.2	12
52	Composition Changes in the Boreal Mixedwood Forest of Western Quebec Since Euro-Canadian Settlement. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	12
53	Decadal Variations in Eastern Canada's Taiga Wood Biomass Production Forced by Ocean-Atmosphere Interactions. Scientific Reports, 2017, 7, 2457.	3.3	11
54	Effects of 20th-century settlement fires on landscape structure and forest composition in eastern Quebec, Canada. Journal of Vegetation Science, 2020, 31, 40-52.	2.2	11

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55	Macroinvertebrates on coarse woody debris in the littoral zone of a boreal lake. <i>Marine and Freshwater Research</i> , 2009, 60, 960.	1.3	11
56	Late Holocene development of a floodplain along a small meandering stream, northern QuÃ©bec, Canada. <i>Geomorphology</i> , 2006, 80, 267-281.	2.6	10
57	Anthropogenic Disturbances Create a New Vegetation Toposequence in the Gatineau River Valley, Quebec. <i>Forests</i> , 2016, 7, 254.	2.1	10
58	Reorganization of tree assemblages over the last century in the northern hardwoods of eastern Canada. <i>Applied Vegetation Science</i> , 2019, 22, 474-483.	1.9	10
59	Chemical destaining and the delta correction for blue intensity measurements of stained lake subfossil trees. <i>Biogeosciences</i> , 2020, 17, 4559-4570.	3.3	10
60	Tree-ring evidence of changes in the subarctic forest cover linked to human disturbance in northern Labrador (Canada). <i>Ecoscience</i> , 2018, 25, 135-151.	1.4	9
61	Tree-ring analysis of white cedar ( <i>Thuja occidentalis</i> L.) archaeological and historical wood in QuÃ©bec City (QuÃ©bec, Canada). <i>Dendrochronologia</i> , 2009, 27, 199-212.	2.2	8
62	Anthropogenic disturbances strengthened tree community-environment relationships at the temperate-boreal interface. <i>Landscape Ecology</i> , 2018, 33, 213-224.	4.2	8
63	Recognising bias in Common Era temperature reconstructions. <i>Dendrochronologia</i> , 2022, 74, 125982.	2.2	8
64	Underestimation of the Tambora effects in North American taiga ecosystems. <i>Environmental Research Letters</i> , 2018, 13, 034017.	5.2	7
65	Comparing the predictions of gap model with vegetation and disturbance data in south-eastern Canadian mixed forests. <i>Forest Ecology and Management</i> , 2020, 455, 117649.	3.2	7
66	Long-term (1925â€“2015) forest structure reorganization in an actively managed temperate-boreal forest region of eastern North America. <i>Forest Ecology and Management</i> , 2021, 481, 118744.	3.2	7
67	A 2233-year tree-ring chronology of subarctic black spruce ( <i>Picea mariana</i> ): growth forms response to long-term climate change. <i>Ecoscience</i> , 2021, 28, 399-419.	1.4	6
68	Short- and long-term wildfire threat when adapting infrastructure for wildlife conservation in the boreal forest. <i>Ecological Applications</i> , 2022, 32, e2606.	3.8	6
69	Forest Transformation Following European Settlement in the Saguenay-Lac-St-Jean Valley in Eastern QuÃ©bec, Canada. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	3
70	The Changing Disturbance Regime in Eastern Canadian Mixed Forests During the 20th Century. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	3
71	Pre-1930 unstable relationship between climate and tree-ring width of <i>Pinus taiwanensis</i> hayata in southeastern China. <i>Dendrochronologia</i> , 2019, 57, 125629.	2.2	1
72	Legacy of forest composition and changes over the long-term on tree radial growth. <i>Canadian Journal of Forest Research</i> , 0, , .	1.7	0