

# Trevor C Lantz

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

4,554  
citations

201674

27  
h-index

168389

53  
g-index

56  
all docs

56  
docs citations

56  
times ranked

5948  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biophysical Determinants of Shifting Tundra Vegetation Productivity in the Beaufort Delta Region of Canada. <i>Ecosystems</i> , 2022, 25, 1435-1454.	3.4	3
2	Inuvialuit knowledge of Pacific salmon range expansion in the western Canadian Arctic. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2022, 79, 1042-1055.	1.4	9
3	Impacts of ecological succession and climate warming on permafrost aggradation in drained lake basins of the Tuktoyaktuk Coastlands, Northwest Territories, Canada. <i>Permafrost and Periglacial Processes</i> , 2022, 33, 176-192.	3.4	3
4	Accuracy, Efficiency, and Transferability of a Deep Learning Model for Mapping Retrogressive Thaw Slumps across the Canadian Arctic. <i>Remote Sensing</i> , 2022, 14, 2747.	4.0	9
5	High Arctic Vegetation Change Mediated by Hydrological Conditions. <i>Ecosystems</i> , 2021, 24, 106-121.	3.4	18
6	Biophysical controls of increased tundra productivity in the western Canadian Arctic. <i>Remote Sensing of Environment</i> , 2021, 258, 112358.	11.0	12
7	One-Size Does Not Fit All—A Networked Approach to Community-Based Monitoring in Large River Basins. <i>Sustainability</i> , 2021, 13, 7400.	3.2	1
8	Landscape-scale variations in near-surface soil temperature and active layer thickness: Implications for high-resolution permafrost mapping. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 627-640.	3.4	12
9	Surface Water Dynamics and Rapid Lake Drainage in the Western Canadian Subarctic (1985–2020). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, .	3.0	6
10	Leading-edge disequilibrium in alder and spruce populations across the forest-tundra ecotone. <i>Ecosphere</i> , 2020, 11, e03118.	2.2	14
11	Mapping Exposure to Flooding in Three Coastal Communities on the North Slope of Alaska Using Airborne LiDAR. <i>Coastal Management</i> , 2020, 48, 96-117.	2.0	12
12	Social-Ecological Determinants of Access to Fish and Well-Being in Four Gwich'in Communities in Canada's Northwest Territories. <i>Human Ecology</i> , 2020, 48, 155-171.	1.4	14
13	Global plant trait relationships extend to the climatic extremes of the tundra biome. <i>Nature Communications</i> , 2020, 11, 1351.	12.8	52
14	Cumulative Environmental Impacts in the Gwich'in Cultural Landscape. <i>Sustainability</i> , 2020, 12, 4667.	3.2	6
15	Muskkrat distributions in a changing Arctic delta are explained by patch composition and configuration. <i>Arctic Science</i> , 2020, 6, 77-94.	2.3	1
16	The importance of continuous dialogue in community-based wildlife monitoring: case studies of dzan and Åuk dagaii in the Gwich'in Settlement Area. <i>Arctic Science</i> , 2020, 6, 154-172.	2.3	14
17	Reproductive limitation mediates the response of white spruce ( <i>Picea glauca</i> ) to climate warming across the forest-tundra ecotone. <i>Arctic Science</i> , 2019, 5, 167-184.	2.3	21
18	Changing northern vegetation conditions are influencing barren ground caribou ( <i>Rangifer</i> )	3.0	14

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19	Impacts of Climate Change and Intensive Lesser Snow Goose ( <i>Chen caerulescens caerulescens</i> ) Activity on Surface Water in High Arctic Pond Complexes. <i>Remote Sensing</i> , 2018, 10, 1892.	4.0	8
20	Tundra Trait Team: A database of plant traits spanning the tundra biome. <i>Global Ecology and Biogeography</i> , 2018, 27, 1402-1411.	5.8	57
21	Climate Sensitivity of High Arctic Permafrost Terrain Demonstrated by Widespread Ice-Wedge Thermokarst on Banks Island. <i>Remote Sensing</i> , 2018, 10, 954.	4.0	66
22	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018, 562, 57-62.	27.8	451
23	Springtime in the Delta: the Socio-Cultural Importance of Muskrats to Gwich'in and Inuvialuit Trappers through Periods of Ecological and Socioeconomic Change. <i>Human Ecology</i> , 2018, 46, 601-611.	1.4	8
24	Spatio-Temporal Variation in High-Centre Polygons and Ice-Wedge Melt Ponds, Tuktoyaktuk Coastlands, Northwest Territories. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 66-78.	3.4	32
25	Global Spatial-Temporal Variability in Terrestrial Productivity and Phenology Regimes between 2000 and 2012. <i>Annals of the American Association of Geographers</i> , 2017, 107, 1519-1537.	2.2	5
26	Persistent Changes to Ecosystems following Winter Road Construction and Abandonment in an Area of Discontinuous Permafrost, Nahanni National Park Reserve, Northwest Territories, Canada. <i>Arctic, Antarctic, and Alpine Research</i> , 2017, 49, 259-276.	1.1	5
27	Ground Temperatures and Permafrost Warming from Forest to Tundra, Tuktoyaktuk Coastlands and Anderson Plain, NWT, Canada. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 543-551.	3.4	43
28	Vegetation Succession and Environmental Conditions following Catastrophic Lake Drainage in Old Crow Flats, Yukon. <i>Arctic</i> , 2017, 70, 177.	0.4	15
29	Drivers of tall shrub proliferation adjacent to the Dempster Highway, Northwest Territories, Canada. <i>Environmental Research Letters</i> , 2016, 11, 045006.	5.2	22
30	Recent Vegetation Change (1980-2013) in the Tundra Ecosystems of the Tuktoyaktuk Coastlands, NWT, Canada. <i>Arctic, Antarctic, and Alpine Research</i> , 2016, 48, 581-597.	1.1	33
31	Acceleration of thaw slump activity in glaciated landscapes of the Western Canadian Arctic. <i>Environmental Research Letters</i> , 2016, 11, 034025.	5.2	106
32	UAV photogrammetry for mapping vegetation in the low-Arctic. <i>Arctic Science</i> , 2016, 2, 79-102.	2.3	108
33	Cumulative Effects of Environmental Change on Culturally Significant Ecosystems in the Inuvialuit Settlement Region + Supplementary Appendices 1 to 3 (See Article Tools). <i>Arctic</i> , 2016, 69, 391.	0.4	8
34	Changes in lake area in response to thermokarst processes and climate in Old Crow Flats, Yukon. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 513-524.	3.0	76
35	Warm Tundra: Atmospheric and Near-Surface Ground Temperature Inversions Across an Alpine Treeline in Continuous Permafrost, Western Arctic, Canada. <i>Permafrost and Periglacial Processes</i> , 2015, 26, 103-118.	3.4	27
36	Ecological recovery in an Arctic delta following widespread saline incursion. , 2015, 25, 172-185.		21

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37	Climate sensitivity of shrub growth across the tundra biome. <i>Nature Climate Change</i> , 2015, 5, 887-891.	18.8	447
38	Detecting Landscape Changes in High Latitude Environments Using Landsat Trend Analysis: 1. Visualization. <i>Remote Sensing</i> , 2014, 6, 11533-11557.	4.0	46
39	Controls on water balance of shallow thermokarst lakes and their relations with catchment characteristics: a multi-year, landscape-scale assessment based on water isotope tracers and remote sensing in Old Crow Flats, Yukon (Canada). <i>Global Change Biology</i> , 2014, 20, 1585-1603.	9.5	59
40	Warming-Induced Shrub Expansion and Lichen Decline in the Western Canadian Arctic. <i>Ecosystems</i> , 2014, 17, 1151-1168.	3.4	147
41	Managing the whole landscape: historical, hybrid, and novel ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 557-564.	4.0	378
42	Distribution and activity of ice wedges across the forest-tundra transition, western Arctic Canada. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 2032-2047.	2.8	53
43	A Community-Based Approach to Mapping Gwich'in Observations of Environmental Changes in the Lower Peel River Watershed, NT. <i>Journal of Ethnobiology</i> , 2014, 34, 294.	2.1	26
44	Cumulative Impacts and Feedbacks of a Gravel Road on Shrub Tundra Ecosystems in the Peel Plateau, Northwest Territories, Canada. <i>Arctic, Antarctic, and Alpine Research</i> , 2014, 46, 947-961.	1.1	33
45	Case Study: Novel Socio-Ecological Systems in the North: Potential Pathways Toward Ecological and Societal Resilience. , 2013, , 334-344.		6
46	Recent Shrub Proliferation in the Mackenzie Delta Uplands and Microclimatic Implications. <i>Ecosystems</i> , 2013, 16, 47-59.	3.4	110
47	Thawing of massive ground ice in mega slumps drives increases in stream sediment and solute flux across a range of watershed scales. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 681-692.	2.8	170
48	Using Multiple Sources of Knowledge to Investigate Northern Environmental Change: Regional Ecological Impacts of a Storm Surge in the Outer Mackenzie Delta, N.W.T.. <i>Arctic</i> , 2012, 65, .	0.4	26
49	Shrub expansion in tundra ecosystems: dynamics, impacts and research priorities. <i>Environmental Research Letters</i> , 2011, 6, 045509.	5.2	1,021
50	Impacts of a recent storm surge on an Arctic delta ecosystem examined in the context of the last millennium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8960-8965.	7.1	49
51	Environmental Change and Traditional Use of the Old Crow Flats in Northern Canada: An IPY Opportunity to Meet the Challenges of the New Northern Research Paradigm. <i>Arctic</i> , 2011, 64, 127.	0.4	30
52	Spatial Heterogeneity in the Shrub Tundra Ecotone in the Mackenzie Delta Region, Northwest Territories: Implications for Arctic Environmental Change. <i>Ecosystems</i> , 2010, 13, 194-204.	3.4	83
53	Response of green alder ( <i>Alnus viridis</i> subsp. <i>fruticosa</i> ) patch dynamics and plant community composition to fire and regional temperature in north-western Canada. <i>Journal of Biogeography</i> , 2010, 37, 1597-1610.	3.0	70
54	Relative impacts of disturbance and temperature: persistent changes in microenvironment and vegetation in retrogressive thaw slumps. <i>Global Change Biology</i> , 2009, 15, 1664-1675.	9.5	142

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55	Origin and polycyclic behaviour of tundra thaw slumps, Mackenzie Delta region, Northwest Territories, Canada. <i>Permafrost and Periglacial Processes</i> , 2009, 20, 173-184.	3.4	127
56	Increasing rates of retrogressive thaw slump activity in the Mackenzie Delta region, N.W.T., Canada. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	219