Trevor C Lantz

List of Publications by Year
in descending order

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56	4,554	201674	168389
papers	citations	27 h-index	53 g-index

56	56	56	5948
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Shrub expansion in tundra ecosystems: dynamics, impacts and research priorities. Environmental Research Letters, 2011, 6, 045509.	5.2	1,021
2	Plant functional trait change across a warming tundra biome. Nature, 2018, 562, 57-62.	27.8	451
3	Climate sensitivity of shrub growth across the tundra biome. Nature Climate Change, 2015, 5, 887-891.	18.8	447
4	Managing the whole landscape: historical, hybrid, and novel ecosystems. Frontiers in Ecology and the Environment, 2014, 12, 557-564.	4.0	378
5	Increasing rates of retrogressive thaw slump activity in the Mackenzie Delta region, N.W.T., Canada. Geophysical Research Letters, 2008, 35, .	4.0	219
6	Thawing of massive ground ice in mega slumps drives increases in stream sediment and solute flux across a range of watershed scales. Journal of Geophysical Research F: Earth Surface, 2013, 118, 681-692.	2.8	170
7	Warming-Induced Shrub Expansion and Lichen Decline in the Western Canadian Arctic. Ecosystems, 2014, 17, 1151-1168.	3.4	147
8	Relative impacts of disturbance and temperature: persistent changes in microenvironment and vegetation in retrogressive thaw slumps. Global Change Biology, 2009, 15, 1664-1675.	9.5	142
9	Origin and polycyclic behaviour of tundra thaw slumps, Mackenzie Delta region, Northwest Territories, Canada. Permafrost and Periglacial Processes, 2009, 20, 173-184.	3.4	127
10	Recent Shrub Proliferation in the Mackenzie Delta Uplands and Microclimatic Implications. Ecosystems, 2013, 16, 47-59.	3.4	110
11	UAV photogrammetry for mapping vegetation in the low-Arctic. Arctic Science, 2016, 2, 79-102.	2.3	108
12	Acceleration of thaw slump activity in glaciated landscapes of the Western Canadian Arctic. Environmental Research Letters, 2016, 11, 034025.	5.2	106
13	Spatial Heterogeneity in the Shrub Tundra Ecotone in the Mackenzie Delta Region, Northwest Territories: Implications for Arctic Environmental Change. Ecosystems, 2010, 13, 194-204.	3.4	83
14	Changes in lake area in response to thermokarst processes and climate in Old Crow Flats, Yukon. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 513-524.	3.0	76
15	Response of green alder (Alnus viridis subsp. fruticosa) patch dynamics and plant community composition to fire and regional temperature in northâ€western Canada. Journal of Biogeography, 2010, 37, 1597-1610.	3.0	70
16	Climate Sensitivity of High Arctic Permafrost Terrain Demonstrated by Widespread Ice-Wedge Thermokarst on Banks Island. Remote Sensing, 2018, 10, 954.	4.0	66
17	Controls on water balance of shallow thermokarst lakes and their relations with catchment characteristics: a multiâ€year, landscapeâ€scale assessment based on water isotope tracers and remote sensing in Old Crow Flats, Yukon (Canada). Global Change Biology, 2014, 20, 1585-1603.	9.5	59
18	Tundra Trait Team: A database of plant traits spanning the tundra biome. Global Ecology and Biogeography, 2018, 27, 1402-1411.	5.8	57

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19	Distribution and activity of ice wedges across the forestâ€tundra transition, western Arctic Canada. Journal of Geophysical Research F: Earth Surface, 2014, 119, 2032-2047.	2.8	53
20	Global plant trait relationships extend to the climatic extremes of the tundra biome. Nature Communications, 2020, 11, 1351.	12.8	52
21	Impacts of a recent storm surge on an Arctic delta ecosystem examined in the context of the last millennium. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8960-8965.	7.1	49
22	Detecting Landscape Changes in High Latitude Environments Using Landsat Trend Analysis: 1. Visualization. Remote Sensing, 2014, 6, 11533-11557.	4.0	46
23	Ground Temperatures and Permafrost Warming from Forest to Tundra, Tuktoyaktuk Coastlands and Anderson Plain, NWT, Canada. Permafrost and Periglacial Processes, 2017, 28, 543-551.	3.4	43
24	Cumulative Impacts and Feedbacks of a Gravel Road on Shrub Tundra Ecosystems in the Peel Plateau, Northwest Territories, Canada. Arctic, Antarctic, and Alpine Research, 2014, 46, 947-961.	1.1	33
25	Recent Vegetation Change (1980â€“2013) in the Tundra Ecosystems of the Tuktoyaktuk Coastlands, NWT, Canada. Arctic, Antarctic, and Alpine Research, 2016, 48, 581-597.	1.1	33
26	Spatio-Temporal Variation in High-Centre Polygons and Ice-Wedge Melt Ponds, Tuktoyaktuk Coastlands, Northwest Territories. Permafrost and Periglacial Processes, 2017, 28, 66-78.	3.4	32
27	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. Arctic, 2011, 64, 127.	0.4	30
28	â€˜Warmâ€™ Tundra: Atmospheric and Nearâ€Surface Ground Temperature Inversions Across an Alpine Treeline in Continuous Permafrost, Western Arctic, Canada. Permafrost and Periglacial Processes, 2015, 26, 103-118.	3.4	27
29	A Community-Based Approach to Mapping Gwich'in Observations of Environmental Changes in the Lower Peel River Watershed, NT. Journal of Ethnobiology, 2014, 34, 294.	2.1	26
30	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.. Arctic, 2012, 65, .	0.4	26
31	Drivers of tall shrub proliferation adjacent to the Dempster Highway, Northwest Territories, Canada. Environmental Research Letters, 2016, 11, 045006.	5.2	22
32	Ecological recovery in an Arctic delta following widespread saline incursion. , 2015, 25, 172-185.		21
33	Reproductive limitation mediates the response of white spruce (Picea glauca) to climate warming across the forestâ€“tundra ecotone. Arctic Science, 2019, 5, 167-184.	2.3	21
34	High Arctic Vegetation Change Mediated by Hydrological Conditions. Ecosystems, 2021, 24, 106-121.	3.4	18
35	Vegetation Succession and Environmental Conditions following Catastrophic Lake Drainage in Old Crow Flats, Yukon. Arctic, 2017, 70, 177.	0.4	15
36	Changing northern vegetation conditions are influencing barren ground caribou (Rangifer) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	3.0	14

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37	Leadingâ€edge disequilibrium in alder and spruce populations across the forestâ€“tundra ecotone. Ecosphere, 2020, 11, e03118.	2.2	14
38	Social-Ecological Determinants of Access to Fish and Well-Being in Four Gwichâ€™in Communities in Canadaâ€™s Northwest Territories. Human Ecology, 2020, 48, 155-171.	1.4	14
39	The importance of continuous dialogue in community-based wildlife monitoring: case studies of dzan and Å‚uk dagaii in the Gwichâ€™in Settlement Area. Arctic Science, 2020, 6, 154-172.	2.3	14
40	Mapping Exposure to Flooding in Three Coastal Communities on the North Slope of Alaska Using Airborne LiDAR. Coastal Management, 2020, 48, 96-117.	2.0	12
41	Biophysical controls of increased tundra productivity in the western Canadian Arctic. Remote Sensing of Environment, 2021, 258, 112358.	11.0	12
42	Landscapeâ€scale variations in nearâ€surface soil temperature and activeâ€layer thickness: Implications for highâ€resolution permafrost mapping. Permafrost and Periglacial Processes, 2021, 32, 627-640.	3.4	12
43	Inuvialuit knowledge of Pacific salmon range expansion in the western Canadian Arctic. Canadian Journal of Fisheries and Aquatic Sciences, 2022, 79, 1042-1055.	1.4	9
44	Accuracy, Efficiency, and Transferability of a Deep Learning Model for Mapping Retrogressive Thaw Slumps across the Canadian Arctic. Remote Sensing, 2022, 14, 2747.	4.0	9
45	Impacts of Climate Change and Intensive Lesser Snow Goose (Chen caerulescens caerulescens) Activity on Surface Water in High Arctic Pond Complexes. Remote Sensing, 2018, 10, 1892.	4.0	8
46	Springtime in the Delta: the Socio-Cultural Importance of Muskrats to Gwichâ€™in and Inuvialuit Trappers through Periods of Ecological and Socioeconomic Change. Human Ecology, 2018, 46, 601-611.	1.4	8
47	Cumulative Effects of Environmental Change on Culturally Significant Ecosystems in the Inuvialuit Settlement Region + Supplementary Appendices 1 to 3 (See Article Tools). Arctic, 2016, 69, 391.	0.4	8
48	Case Study: Novel Socioâ€Ecological Systems in the North: Potential Pathways Toward Ecological and Societal Resilience. , 2013, , 334-344.		6
49	Cumulative Environmental Impacts in the Gwichâ€™in Cultural Landscape. Sustainability, 2020, 12, 4667.	3.2	6
50	Surface Water Dynamics and Rapid Lake Drainage in the Western Canadian Subarctic (1985â€“2020). Journal of Geophysical Research G: Biogeosciences, 2021, 126, .	3.0	6
51	Global Spatialâ€“Temporal Variability in Terrestrial Productivity and Phenology Regimes between 2000 and 2012. Annals of the American Association of Geographers, 2017, 107, 1519-1537.	2.2	5
52	Persistent Changes to Ecosystems following Winter Road Construction and Abandonment in an Area of Discontinuous Permafrost, Nahanni National Park Reserve, Northwest Territories, Canada. Arctic, Antarctic, and Alpine Research, 2017, 49, 259-276.	1.1	5
53	Biophysical Determinants of Shifting Tundra Vegetation Productivity in the Beaufort Delta Region of Canada. Ecosystems, 2022, 25, 1435-1454.	3.4	3
54	Impacts of ecological succession and climate warming on permafrost aggradation in drained lake basins of the Tuktoyaktuk Coastlands, Northwest Territories, Canada. Permafrost and Periglacial Processes, 2022, 33, 176-192.	3.4	3

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55	Muskrat distributions in a changing Arctic delta are explained by patch composition and configuration. Arctic Science, 2020, 6, 77-94.	2.3	1
56	One-Size Does Not Fit Allâ€”A Networked Approach to Community-Based Monitoring in Large River Basins. Sustainability, 2021, 13, 7400.	3.2	1