

Suzanne E Tank

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

3,596
citations

159358

30
h-index

143772

57
g-index

99
all docs

99
docs citations

99
times ranked

3690
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasonal and Annual Fluxes of Nutrients and Organic Matter from Large Rivers to the Arctic Ocean and Surrounding Seas. <i>Estuaries and Coasts</i> , 2012, 35, 369-382.	1.0	528
2	Reviews and syntheses: Effects of permafrost thaw on Arctic aquatic ecosystems. <i>Biogeosciences</i> , 2015, 12, 7129-7167.	1.3	354
3	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , 2016, 11, 034014.	2.2	199
4	Particulate organic carbon and nitrogen export from major Arctic rivers. <i>Global Biogeochemical Cycles</i> , 2016, 30, 629-643.	1.9	157
5	Biodegradability of dissolved organic carbon in permafrost soils and aquatic systems: a meta-analysis. <i>Biogeosciences</i> , 2015, 12, 6915-6930.	1.3	153
6	Multi-decadal increases in dissolved organic carbon and alkalinity flux from the Mackenzie drainage basin to the Arctic Ocean. <i>Environmental Research Letters</i> , 2016, 11, 054015.	2.2	130
7	A land-to-ocean perspective on the magnitude, source and implication of DIC flux from major Arctic rivers to the Arctic Ocean. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	121
8	Pan-Arctic Trends in Terrestrial Dissolved Organic Matter from Optical Measurements. <i>Frontiers in Earth Science</i> , 2016, 4, .	0.8	104
9	Integrating hydrology and biogeochemistry across frozen landscapes. <i>Nature Communications</i> , 2019, 10, 5377.	5.8	87
10	Landscape-level controls on dissolved carbon flux from diverse catchments of the circumboreal. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	82
11	Beyond respiration: Controls on lateral carbon fluxes across the terrestrial-aquatic interface. <i>Limnology and Oceanography Letters</i> , 2018, 3, 76-88.	1.6	81
12	The Processing and Impact of Dissolved Riverine Nitrogen in the Arctic Ocean. <i>Estuaries and Coasts</i> , 2012, 35, 401-415.	1.0	78
13	Increasing Alkalinity Export from Large Russian Arctic Rivers. <i>Environmental Science & Technology</i> , 2018, 52, 8302-8308.	4.6	74
14	Landscape matters: Predicting the biogeochemical effects of permafrost thaw on aquatic networks with a state factor approach. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 358-370.	1.5	66
15	Elemental Composition of Littoral Invertebrates from Oligotrophic and Eutrophic Canadian Lakes. <i>Journal of the North American Benthological Society</i> , 2003, 22, 51-62.	3.0	65
16	Northern Delta Lakes as Summertime CO ₂ Absorbers Within the Arctic Landscape. <i>Ecosystems</i> , 2009, 12, 144-157.	1.6	65
17	Multiple tracers demonstrate distinct sources of dissolved organic matter to lakes of the Mackenzie Delta, western Canadian Arctic. <i>Limnology and Oceanography</i> , 2011, 56, 1297-1309.	1.6	63
18	Mercury Export from Arctic Great Rivers. <i>Environmental Science & Technology</i> , 2020, 54, 4140-4148.	4.6	59

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19	Unprecedented Increases in Total and Methyl Mercury Concentrations Downstream of Retrogressive Thaw Slumps in the Western Canadian Arctic. <i>Environmental Science & Technology</i> , 2018, 52, 14099-14109.	4.6	58
20	Retrogressive thaw slumps temper dissolved organic carbon delivery to streams of the Peel Plateau, NWT, Canada. <i>Biogeosciences</i> , 2017, 14, 5487-5505.	1.3	51
21	Mineral Weathering and the Permafrost Carbon-Climate Feedback. <i>Geophysical Research Letters</i> , 2018, 45, 9623-9632.	1.5	49
22	The Boreal- Arctic Wetland and Lake Dataset (BAWLD). <i>Earth System Science Data</i> , 2021, 13, 5127-5149.	3.7	46
23	Seasonal shifts in export of DOC and nutrients from burned and unburned peatland-rich catchments, Northwest Territories, Canada. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4455-4472.	1.9	40
24	Elevated pH regulates bacterial carbon cycling in lakes with high photosynthetic activity. <i>Ecology</i> , 2009, 90, 1910-1922.	1.5	39
25	Assessing the Potential for Mobilization of Old Soil Carbon After Permafrost Thaw: A Synthesis of ¹⁴ C Measurements From the Northern Permafrost Region. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006672.	1.9	36
26	A global hotspot for dissolved organic carbon in hypermaritime watersheds of coastal British Columbia. <i>Biogeosciences</i> , 2017, 14, 3743-3762.	1.3	35
27	Watershed slope as a predictor of fluvial dissolved organic matter and nitrate concentrations across geographical space and catchment size in the Arctic. <i>Environmental Research Letters</i> , 2018, 13, 104015.	2.2	35
28	Thaw-driven mass wasting couples slopes with downstream systems, and effects propagate through Arctic drainage networks. <i>Cryosphere</i> , 2021, 15, 3059-3081.	1.5	34
29	Thermokarst Effects on Carbon Dioxide and Methane Fluxes in Streams on the Peel Plateau (NWT, Canada). <i>Journal of Geophysical Research</i> , 2019, 124, 10743-10758.	1.3	33
30	An Abrupt Aging of Dissolved Organic Carbon in Large Arctic Rivers. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088823.	1.5	33
31	Particulate dominance of organic carbon mobilization from thaw slumps on the Peel Plateau, NT: Quantification and implications for stream systems and permafrost carbon release. <i>Environmental Research Letters</i> , 2020, 15, 114019.	2.2	33
32	Direct and indirect effects of UV radiation on benthic communities: epilithic food quality and invertebrate growth in four montane lakes. <i>Oikos</i> , 2003, 103, 651-667.	1.2	31
33	Pan-Arctic Riverine Dissolved Organic Matter: Synchronous Molecular Stability, Shifting Sources and Subsidies. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006871.	1.9	31
34	Stream Dissolved Organic Matter in Permafrost Regions Shows Surprising Compositional Similarities but Negative Priming and Nutrient Effects. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006719.	1.9	30
35	Coordination and Sustainability of River Observing Activities in the Arctic. <i>Arctic</i> , 2015, 68, 59.	0.2	24
36	Effect of ultraviolet radiation on alkaline phosphatase activity and planktonic phosphorus acquisition in Canadian boreal shield lakes. <i>Limnology and Oceanography</i> , 2005, 50, 1345-1351.	1.6	23

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37	Climate-Mediated Changes to Linked Terrestrial and Marine Ecosystems across the Northeast Pacific Coastal Temperate Rainforest Margin. <i>BioScience</i> , 2021, 71, 581-595.	2.2	23
38	Seasonal Dynamics of Dissolved Methane in Lakes of the Mackenzie Delta and the Role of Carbon Substrate Quality. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 591-609.	1.3	22
39	Lipoxygenase-induced autoxidative degradation of terrestrial particulate organic matter in estuaries: A widespread process enhanced at high and low latitude. <i>Organic Geochemistry</i> , 2018, 115, 78-92.	0.9	22
40	Seasonal and Geographic Variation in Dissolved Carbon Biogeochemistry of Rivers Draining to the Canadian Arctic Ocean and Hudson Bay. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3371-3386.	1.3	22
41	Fluvial CO ₂ and CH ₄ patterns across wildfire-disturbed ecozones of subarctic Canada: Current status and implications for future change. <i>Global Change Biology</i> , 2020, 26, 2304-2319.	4.2	22
42	Preferential export of permafrost-derived organic matter as retrogressive thaw slumping intensifies. <i>Environmental Research Letters</i> , 2021, 16, 054059.	2.2	22
43	Terrestrial exports of dissolved and particulate organic carbon affect nearshore ecosystems of the Pacific coastal temperate rainforest. <i>Limnology and Oceanography</i> , 2020, 65, 2657-2675.	1.6	18
44	Lability of dissolved organic carbon from boreal peatlands: interactions between permafrost thaw, wildfire, and season. <i>Canadian Journal of Soil Science</i> , 2020, 100, 503-515.	0.5	18
45	Permafrost-derived dissolved organic matter composition varies across permafrost end-members in the western Canadian Arctic. <i>Environmental Research Letters</i> , 2021, 16, 024036.	2.2	18
46	Coupled hydrological and geochemical impacts of wildfire in peatland-dominated regions of discontinuous permafrost. <i>Science of the Total Environment</i> , 2021, 782, 146841.	3.9	18
47	Experimental Evidence That Permafrost Thaw History and Mineral Composition Shape Abiotic Carbon Cycling in Thermokarst-Affected Stream Networks. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	17
48	Biodegradability of Thermokarst Carbon in a Till-associated, Glacial Margin Landscape: The Case of the Peel Plateau, NWT, Canada. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3293-3307.	1.3	15
49	The role of ultraviolet radiation in structuring epilithic algal communities in Rocky Mountain montane lakes: evidence from pigments and taxonomy. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2004, 61, 1461-1474.	0.7	14
50	Heat flux, water temperature and discharge from 15 northern Canadian rivers draining to Arctic Ocean and Hudson Bay. <i>Global and Planetary Change</i> , 2021, 204, 103577.	1.6	14
51	Multidecadal declines in particulate mercury and sediment export from Russian rivers in the pan-Arctic basin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119857119.	3.3	14
52	Thermokarst amplifies fluvial inorganic carbon cycling and export across watershed scales on the Peel Plateau, Canada. <i>Biogeosciences</i> , 2020, 17, 5163-5182.	1.3	13
53	Watershed Classification Predicts Streamflow Regime and Organic Carbon Dynamics in the Northeast Pacific Coastal Temperate Rainforest. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	13
54	Downstream Evolution of Particulate Organic Matter Composition From Permafrost Thaw Slumps. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	9

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55	Aged soils contribute little to contemporary carbon cycling downstream of thawing permafrost peatlands. <i>Global Change Biology</i> , 2021, 27, 5368-5382.	4.2	9
56	We Must Stop Fossil Fuel Emissions to Protect Permafrost Ecosystems. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	9
57	Hydrological resilience to forest fire in the subarctic Canadian shield. <i>Hydrological Processes</i> , 2020, 34, 4940-4958.	1.1	8
58	Rain-fed streams dilute inorganic nutrients but subsidise organic-matter-associated nutrients in coastal waters of the northeast Pacific Ocean. <i>Biogeosciences</i> , 2021, 18, 3029-3052.	1.3	7
59	Turbidity Currents Can Dictate Organic Carbon Fluxes Across River-fed Fjords: An Example From Bute Inlet (BC, Canada). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	7
60	Low biodegradability of particulate organic carbon mobilized from thaw slumps on the Peel Plateau, NT, and possible chemosynthesis and sorption effects. <i>Biogeosciences</i> , 2022, 19, 1871-1890.	1.3	6
61	Fire in the Arctic: The effect of wildfire across diverse aquatic ecosystems of the Northwest Territories. , 2019, 1, 31-38.		5
62	Element cycling and aquatic function in a changing Arctic. <i>Limnology and Oceanography</i> , 2021, 66, S1.	1.6	4
63	The Kwakshua Watersheds Observatory, central coast of British Columbia, Canada. <i>Hydrological Processes</i> , 2021, 35, e14198.	1.1	4
64	Methane emission dynamics among CO ₂ -absorbing and thermokarst lakes of a great Arctic delta. <i>Biogeochemistry</i> , 2021, 156, 375-399.	1.7	4
65	Seasonally and Spatially Variable Organic Matter Contributions From Watershed, Marine Macrophyte, and Pelagic Sources to the Northeast Pacific Coastal Ocean Margin. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	4
66	Declining Summertime <i>p</i> CO ₂ in Tundra Lakes in a Granitic Landscape. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006850.	1.9	3
67	Are different benthic communities in Arctic delta lakes distinguishable along a hydrological connectivity gradient using a rapid bioassessment approach?. <i>Arctic Science</i> , 2020, 6, 463-487.	0.9	2
68	Fluxes, processing, and fate of riverine organic and inorganic carbon in the Arctic Ocean. , 2013, , 530-553.		1