

M Torre Jorgenson

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

5,969
citations

136740
32
h-index

205818
48
g-index

49
all docs

49
docs citations

49
times ranked

4419
citing authors

#	ARTICLE	IF	CITATIONS
1	Abrupt increase in permafrost degradation in Arctic Alaska. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	637
2	Permafrost Degradation and Ecological Changes Associated with a Warming Climate in Central Alaska. <i>Climatic Change</i> , 2001, 48, 551-579.	1.7	601
3	Resilience and vulnerability of permafrost to climate change This article is one of a selection of papers from <i>The Dynamics of Change in Alaska's Boreal Forests: Resilience and Vulnerability in Response to Climate Warming</i> . <i>Canadian Journal of Forest Research</i> , 2010, 40, 1219-1236.	0.8	435
4	Patterns of permafrost formation and degradation in relation to climate and ecosystems. <i>Permafrost and Periglacial Processes</i> , 2007, 18, 7-19.	1.5	423
5	Vulnerability of high-latitude soil organic carbon in North America to disturbance. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	337
6	Field information links permafrost carbon to physical vulnerabilities of thawing. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	265
7	Response of boreal ecosystems to varying modes of permafrost degradation. <i>Canadian Journal of Forest Research</i> , 2005, 35, 2100-2111.	0.8	259
8	Increase in the rate and uniformity of coastline erosion in Arctic Alaska. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	252
9	Permafrost soils and carbon cycling. <i>Soil</i> , 2015, 1, 147-171.	2.2	241
10	Physical and ecological changes associated with warming permafrost and thermokarst in Interior Alaska. <i>Permafrost and Periglacial Processes</i> , 2009, 20, 235-256.	1.5	206
11	Evolution of lakes and basins in northern Alaska and discussion of the thaw lake cycle. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	184
12	The Effects of Permafrost Thaw on Soil Hydrologic, Thermal, and Carbon Dynamics in an Alaskan Peatland. <i>Ecosystems</i> , 2012, 15, 213-229.	1.6	162
13	Distribution of near-surface permafrost in Alaska: Estimates of present and future conditions. <i>Remote Sensing of Environment</i> , 2015, 168, 301-315.	4.6	145
14	Reorganization of vegetation, hydrology and soil carbon after permafrost degradation across heterogeneous boreal landscapes. <i>Environmental Research Letters</i> , 2013, 8, 035017.	2.2	137
15	Airborne electromagnetic imaging of discontinuous permafrost. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	129
16	Observations of Thermokarst and Its Impact on Boreal Forests in Alaska, U.S.A.. <i>Arctic, Antarctic, and Alpine Research</i> , 2000, 32, 303-315.	0.4	123
17	Vulnerability and Feedbacks of Permafrost to Climate Change. <i>Eos</i> , 2011, 92, 73-74.	0.1	121
18	Interactive effects of wildfire and climate on permafrost degradation in Alaskan lowland forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1619-1637.	1.3	113

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19	Role of ground ice dynamics and ecological feedbacks in recent ice wedge degradation and stabilization. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 2280-2297.	1.0	102
20	Spatiotemporal remote sensing of ecosystem change and causation across Alaska. <i>Global Change Biology</i> , 2019, 25, 1171-1189.	4.2	91
21	Tundra vegetation change and impacts on permafrost. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 68-84.	12.2	87
22	Dissolved organic carbon and nitrogen release from boreal Holocene permafrost and seasonally frozen soils of Alaska. <i>Environmental Research Letters</i> , 2018, 13, 065011.	2.2	84
23	Degradation and stabilization of ice wedges: Implications for assessing risk of thermokarst in northern Alaska. <i>Geomorphology</i> , 2017, 297, 20-42.	1.1	82
24	Edaphic and microclimatic controls over permafrost response to fire in interior Alaska. <i>Environmental Research Letters</i> , 2013, 8, 035013.	2.2	72
25	Cryostratigraphy and Permafrost Evolution in the Lacustrine Lowlands of West-Central Alaska. <i>Permafrost and Periglacial Processes</i> , 2014, 25, 14-34.	1.5	72
26	Rapid carbon loss and slow recovery following permafrost thaw in boreal peatlands. <i>Global Change Biology</i> , 2017, 23, 1109-1127.	4.2	70
27	Patterns and rates of riverbank erosion involving ice-rich permafrost (yedoma) in northern Alaska. <i>Geomorphology</i> , 2016, 253, 370-384.	1.1	60
28	Thaw Settlement in Soils of the Arctic Coastal Plain, Alaska. <i>Arctic, Antarctic, and Alpine Research</i> , 2007, 39, 468-476.	0.4	43
29	Contrasting characteristics, changes, and linkages of permafrost between the Arctic and the Third Pole. <i>Earth-Science Reviews</i> , 2022, 230, 104042.	4.0	42
30	Degrading permafrost mapped with electrical resistivity tomography, airborne imagery and LiDAR, and seasonal thaw measurements. <i>Geophysics</i> , 2016, 81, WA71-WA85.	1.4	34
31	Landscape Effects of Wildfire on Permafrost Distribution in Interior Alaska Derived from Remote Sensing. <i>Remote Sensing</i> , 2016, 8, 654.	1.8	33
32	Historical and projected trends in landscape drivers affecting carbon dynamics in Alaska. <i>Ecological Applications</i> , 2017, 27, 1383-1402.	1.8	33
33	Transferability of the Deep Learning Mask R-CNN Model for Automated Mapping of Ice-Wedge Polygons in High-Resolution Satellite and UAV Images. <i>Remote Sensing</i> , 2020, 12, 1085.	1.8	33
34	Drivers of Landscape Changes in Coastal Ecosystems on the Yukon-Kuskokwim Delta, Alaska. <i>Remote Sensing</i> , 2018, 10, 1280.	1.8	30
35	Biophysical permafrost map indicates ecosystem processes dominate permafrost stability in the Northern Hemisphere. <i>Environmental Research Letters</i> , 2021, 16, 095010.	2.2	27
36	Ice Wedge Degradation and Stabilization Impact Water Budgets and Nutrient Cycling in Arctic Trough Ponds. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2604-2616.	1.3	26

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37	Regional Patterns and Asynchronous Onset of Ice-Wedge Degradation since the Mid-20th Century in Arctic Alaska. <i>Remote Sensing</i> , 2018, 10, 1312.	1.8	25
38	Projected changes in wildlife habitats in Arctic natural areas of northwest Alaska. <i>Climatic Change</i> , 2015, 130, 145-154.	1.7	22
39	The Roles of Climate Extremes, Ecological Succession, and Hydrology in Repeated Permafrost Aggradation and Degradation in Fens on the Tanana Flats, Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005824.	1.3	22
40	Landscape Change Detected over a Half Century in the Arctic National Wildlife Refuge Using High-Resolution Aerial Imagery. <i>Remote Sensing</i> , 2018, 10, 1305.	1.8	18
41	An Object-Based Approach for Mapping Tundra Ice-Wedge Polygon Troughs from Very High Spatial Resolution Optical Satellite Imagery. <i>Remote Sensing</i> , 2021, 13, 558.	1.8	17
42	Carbon Dioxide and Methane Flux in a Dynamic Arctic Tundra Landscape: Decadal-Scale Impacts of Ice Wedge Degradation and Stabilization. <i>Geophysical Research Letters</i> , 2020, 47, .	1.5	16
43	Landscape impacts of 3D-seismic surveys in the Arctic National Wildlife Refuge, Alaska. <i>Ecological Applications</i> , 2020, 30, e02143.	1.8	15
44	Fluvio-thermal erosion and thermal denudation in the yedoma region of northern Alaska: Revisiting the Itkillik River exposure. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 277-298.	1.5	14
45	The shifting mosaic of ice-wedge degradation and stabilization in response to infrastructure and climate change, Prudhoe Bay Oilfield, Alaska, USA. <i>Arctic Science</i> , 2022, 8, 498-530.	0.9	12
46	Airboat Use and Disturbance of Floating Mat Fen Wetlands in Interior Alaska, U.S.A.. <i>Arctic</i> , 1998, 51, .	0.2	6
47	Heterogeneous Patterns of Aged Organic Carbon Export Driven by Hydrologic Flow Paths, Soil Texture, Fire, and Thaw in Discontinuous Permafrost Headwaters. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	5
48	Drivers of historical and projected changes in diverse boreal ecosystems: fires, thermokarst, riverine dynamics, and humans. <i>Environmental Research Letters</i> , 2022, 17, 045016.	2.2	4
49	Thermokarst. , 2021, , .		2