M Torre Jorgenson

List of Publications by Year
in descending order

49 papers	5,969 citations	136950 32 h-index	206112 48 g-index
49 all docs	49 docs citations	49 times ranked	4419 citing authors

#	Article	IF	Citations
1	Tundra vegetation change and impacts on permafrost. Nature Reviews Earth & Environment, 2022, 3, 68-84.	29.7	87
2	The shifting mosaic of ice-wedge degradation and stabilization in response to infrastructure and climate change, Prudhoe Bay Oilfield, Alaska, USA. Arctic Science, 2022, 8, 498-530.	2.3	12
3	Drivers of historical and projected changes in diverse boreal ecosystems: fires, thermokarst, riverine dynamics, and humans. Environmental Research Letters, 2022, 17, 045016.	5.2	4
4	Heterogeneous Patterns of Aged Organic Carbon Export Driven by Hydrologic Flow Paths, Soil Texture, Fire, and Thaw in Discontinuous Permafrost Headwaters. Global Biogeochemical Cycles, 2022, 36, .	4.9	5
5	Contrasting characteristics, changes, and linkages of permafrost between the Arctic and the Third Pole. Earth-Science Reviews, 2022, 230, 104042.	9.1	42
6	An Object-Based Approach for Mapping Tundra Ice-Wedge Polygon Troughs from Very High Spatial Resolution Optical Satellite Imagery. Remote Sensing, 2021, 13, 558.	4.0	17
7	Fluvioâ€thermal erosion and thermal denudation in the yedoma region of northern Alaska: Revisiting the Itkillik River exposure. Permafrost and Periglacial Processes, 2021, 32, 277-298.	3.4	14
8	Biophysical permafrost map indicates ecosystem processes dominate permafrost stability in the Northern Hemisphere. Environmental Research Letters, 2021, 16, 095010.	5.2	27
9	Thermokarst. , 2021, , .		2
10	The Roles of Climate Extremes, Ecological Succession, and Hydrology in Repeated Permafrost Aggradation and Degradation in Fens on the Tanana Flats, Alaska. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005824.	3.0	22
11	Landscape impacts of 3Dâ€seismic surveys in the Arctic National Wildlife Refuge, Alaska. Ecological Applications, 2020, 30, e02143.	3.8	15
12	Transferability of the Deep Learning Mask R-CNN Model for Automated Mapping of Ice-Wedge Polygons in High-Resolution Satellite and UAV Images. Remote Sensing, 2020, 12, 1085.	4.0	33
13	Carbon Dioxide and Methane Flux in a Dynamic Arctic Tundra Landscape: Decadalâ€Scale Impacts of Ice Wedge Degradation and Stabilization. Geophysical Research Letters, 2020, 47, .	4.0	16
14	Spatiotemporal remote sensing of ecosystem change and causation across Alaska. Global Change Biology, 2019, 25, 1171-1189.	9.5	91
15	Drivers of Landscape Changes in Coastal Ecosystems on the Yukon-Kuskokwim Delta, Alaska. Remote Sensing, 2018, 10, 1280.	4.0	30
16	Landscape Change Detected over a Half Century in the Arctic National Wildlife Refuge Using High-Resolution Aerial Imagery. Remote Sensing, 2018, 10, 1305.	4.0	18
17	Dissolved organic carbon and nitrogen release from boreal Holocene permafrost and seasonally frozen soils of Alaska. Environmental Research Letters, 2018, 13, 065011.	5.2	84
18	Ice Wedge Degradation and Stabilization Impact Water Budgets and Nutrient Cycling in Arctic Trough Ponds. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2604-2616.	3.0	26

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19	Regional Patterns and Asynchronous Onset of Ice-Wedge Degradation since the Mid-20th Century in Arctic Alaska. Remote Sensing, 2018, 10, 1312.	4.0	25
20	Historical and projected trends in landscape drivers affecting carbon dynamics in Alaska. Ecological Applications, 2017, 27, 1383-1402.	3.8	33
21	Degradation and stabilization of ice wedges: Implications for assessing risk of thermokarst in northern Alaska. Geomorphology, 2017, 297, 20-42.	2.6	82
22	Rapid carbon loss and slow recovery following permafrost thaw in boreal peatlands. Global Change Biology, 2017, 23, 1109-1127.	9.5	70
23	Landscape Effects of Wildfire on Permafrost Distribution in Interior Alaska Derived from Remote Sensing. Remote Sensing, 2016, 8, 654.	4.0	33
24	Degrading permafrost mapped with electrical resistivity tomography, airborne imagery and LiDAR, and seasonal thaw measurements. Geophysics, 2016, 81, WA71-WA85.	2.6	34
25	Patterns and rates of riverbank erosion involving ice-rich permafrost (yedoma) in northern Alaska. Geomorphology, 2016, 253, 370-384.	2.6	60
26	Role of ground ice dynamics and ecological feedbacks in recent ice wedge degradation and stabilization. Journal of Geophysical Research F: Earth Surface, 2015, 120, 2280-2297.	2.8	102
27	Interactive effects of wildfire and climate on permafrost degradation in Alaskan lowland forests. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1619-1637.	3.0	113
28	Permafrost soils and carbon cycling. Soil, 2015, 1, 147-171.	4.9	241
29	Projected changes in wildlife habitats in Arctic natural areas of northwest Alaska. Climatic Change, 2015, 130, 145-154.	3.6	22
30	Distribution of near-surface permafrost in Alaska: Estimates of present and future conditions. Remote Sensing of Environment, 2015, 168, 301-315.	11.0	145
31	Cryostratigraphy and Permafrost Evolution in the Lacustrine Lowlands of Westâ€Central Alaska. Permafrost and Periglacial Processes, 2014, 25, 14-34.	3.4	72
32	Edaphic and microclimatic controls over permafrost response to fire in interior Alaska. Environmental Research Letters, 2013, 8, 035013.	5.2	72
33	Reorganization of vegetation, hydrology and soil carbon after permafrost degradation across heterogeneous boreal landscapes. Environmental Research Letters, 2013, 8, 035017.	5.2	137
34	Field information links permafrost carbon to physical vulnerabilities of thawing. Geophysical Research Letters, 2012, 39, .	4.0	265
35	Airborne electromagnetic imaging of discontinuous permafrost. Geophysical Research Letters, 2012, 39, .	4.0	129
36	The Effects of Permafrost Thaw on Soil Hydrologic, Thermal, and Carbon Dynamics in an Alaskan Peatland. Ecosystems, 2012, 15, 213-229.	3.4	162

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37	Vulnerability of high-latitude soil organic carbon in North America to disturbance. Journal of Geophysical Research, 2011, 116, .	3.3	337
38	Vulnerability and Feedbacks of Permafrost to Climate Change. Eos, 2011, 92, 73-74.	0.1	121
39	Resilience and vulnerability of permafrost to climate changeThis article is one of a selection of papers from The Dynamics of Change in Alaskaâ€™s Boreal Forests: Resilience and Vulnerability in Response to Climate Warming.. Canadian Journal of Forest Research, 2010, 40, 1219-1236.	1.7	435
40	Physical and ecological changes associated with warming permafrost and thermokarst in Interior Alaska. Permafrost and Periglacial Processes, 2009, 20, 235-256.	3.4	206
41	Increase in the rate and uniformity of coastline erosion in Arctic Alaska. Geophysical Research Letters, 2009, 36, .	4.0	252
42	Thaw Settlement in Soils of the Arctic Coastal Plain, Alaska. Arctic, Antarctic, and Alpine Research, 2007, 39, 468-476.	1.1	43
43	Evolution of lakes and basins in northern Alaska and discussion of the thaw lake cycle. Journal of Geophysical Research, 2007, 112, .	3.3	184
44	Patterns of permafrost formation and degradation in relation to climate and ecosystems. Permafrost and Periglacial Processes, 2007, 18, 7-19.	3.4	423
45	Abrupt increase in permafrost degradation in Arctic Alaska. Geophysical Research Letters, 2006, 33, .	4.0	637
46	Response of boreal ecosystems to varying modes of permafrost degradation. Canadian Journal of Forest Research, 2005, 35, 2100-2111.	1.7	259
47	Permafrost Degradation and Ecological Changes Associated with a WarmingClimate in Central Alaska. Climatic Change, 2001, 48, 551-579.	3.6	601
48	Observations of Thermokarst and Its Impact on Boreal Forests in Alaska, U.S.A.. Arctic, Antarctic, and Alpine Research, 2000, 32, 303-315.	1.1	123
49	Airboat Use and Disturbance of Floating Mat Fen Wetlands in Interior Alaska, U.S.A.. Arctic, 1998, 51, .	0.4	6