# M Torre Jorgenson

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Abrupt increase in permafrost degradation in Arctic Alaska. Geophysical Research Letters, 2006, 33, . | 4.0 | 637 |
| 2 | Permafrost Degradation and Ecological Changes Associated with a WarmingClimate in Central Alaska. Climatic Change, 2001, 48, 551-579. | 3.6 | 601 |
| 3 | 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 |
| 4 | Patterns of permafrost formation and degradation in relation to climate and ecosystems. Permafrost and Periglacial Processes, 2007, 18, 7-19. | 3.4 | 423 |
| 5 | Vulnerability of high-latitude soil organic carbon in North America to disturbance. Journal of Geophysical Research, 2011, 116, . | 3.3 | 337 |
| 6 | Field information links permafrost carbon to physical vulnerabilities of thawing. Geophysical Research Letters, 2012, 39, . | 4.0 | 265 |
| 7 | Response of boreal ecosystems to varying modes of permafrost degradation. Canadian Journal of Forest Research, 2005, 35, 2100-2111. | 1.7 | 259 |
| 8 | Increase in the rate and uniformity of coastline erosion in Arctic Alaska. Geophysical Research Letters, 2009, 36, . | 4.0 | 252 |
| 9 | Permafrost soils and carbon cycling. Soil, 2015, 1, 147-171. | 4.9 | 241 |
| 10 | Physical and ecological changes associated with warming permafrost and thermokarst in Interior Alaska. Permafrost and Periglacial Processes, 2009, 20, 235-256. | 3.4 | 206 |
| 11 | Evolution of lakes and basins in northern Alaska and discussion of the thaw lake cycle. Journal of Geophysical Research, 2007, 112, . | 3.3 | 184 |
| 12 | The Effects of Permafrost Thaw on Soil Hydrologic, Thermal, and Carbon Dynamics in an Alaskan Peatland. Ecosystems, 2012, 15, 213-229. | 3.4 | 162 |
| 13 | Distribution of near-surface permafrost in Alaska: Estimates of present and future conditions. Remote Sensing of Environment, 2015, 168, 301-315. | 11.0 | 145 |
| 14 | Reorganization of vegetation, hydrology and soil carbon after permafrost degradation across heterogeneous boreal landscapes. Environmental Research Letters, 2013, 8, 035017. | 5.2 | 137 |
| 15 | Airborne electromagnetic imaging of discontinuous permafrost. Geophysical Research Letters, 2012, 39, . | 4.0 | 129 |
| 16 | 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 |
| 17 | Vulnerability and Feedbacks of Permafrost to Climate Change. Eos, 2011, 92, 73-74. | 0.1 | 121 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Spatiotemporal remote sensing of ecosystem change and causation across Alaska. Global Change Biology, 2019, 25, 1171-1189. | 9.5 | 91 |
| 21 | Tundra vegetation change and impacts on permafrost. Nature Reviews Earth & Environment, 2022, 3, 68-84. | 29.7 | 87 |
| 22 | 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 |
| 23 | Degradation and stabilization of ice wedges: Implications for assessing risk of thermokarst in northern Alaska. Geomorphology, 2017, 297, 20-42. | 2.6 | 82 |
| 24 | Edaphic and microclimatic controls over permafrost response to fire in interior Alaska. Environmental Research Letters, 2013, 8, 035013. | 5.2 | 72 |
| 25 | Cryostratigraphy and Permafrost Evolution in the Lacustrine Lowlands of Westâ€Central Alaska. Permafrost and Periglacial Processes, 2014, 25, 14-34. | 3.4 | 72 |
| 26 | Rapid carbon loss and slow recovery following permafrost thaw in boreal peatlands. Global Change Biology, 2017, 23, 1109-1127. | 9.5 | 70 |
| 27 | Patterns and rates of riverbank erosion involving ice-rich permafrost (yedoma) in northern Alaska. Geomorphology, 2016, 253, 370-384. | 2.6 | 60 |
| 28 | Thaw Settlement in Soils of the Arctic Coastal Plain, Alaska. Arctic, Antarctic, and Alpine Research, 2007, 39, 468-476. | 1.1 | 43 |
| 29 | Contrasting characteristics, changes, and linkages of permafrost between the Arctic and the Third Pole. Earth-Science Reviews, 2022, 230, 104042. | 9.1 | 42 |
| 30 | Degrading permafrost mapped with electrical resistivity tomography, airborne imagery and LiDAR, and seasonal thaw measurements. Geophysics, 2016, 81, WA71-WA85. | 2.6 | 34 |
| 31 | Landscape Effects of Wildfire on Permafrost Distribution in Interior Alaska Derived from Remote Sensing. Remote Sensing, 2016, 8, 654. | 4.0 | 33 |
| 32 | Historical and projected trends in landscape drivers affecting carbon dynamics in Alaska. Ecological Applications, 2017, 27, 1383-1402. | 3.8 | 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. Remote Sensing, 2020, 12, 1085. | 4.0 | 33 |
| 34 | Drivers of Landscape Changes in Coastal Ecosystems on the Yukon-Kuskokwim Delta, Alaska. Remote Sensing, 2018, 10, 1280. | 4.0 | 30 |
| 35 | Biophysical permafrost map indicates ecosystem processes dominate permafrost stability in the Northern Hemisphere. Environmental Research Letters, 2021, 16, 095010. | 5.2 | 27 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | 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 |
| 38 | Projected changes in wildlife habitats in Arctic natural areas of northwest Alaska. Climatic Change, 2015, 130, 145-154. | 3.6 | 22 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Landscape impacts of 3Dâ€seismic surveys in the Arctic National Wildlife Refuge, Alaska. Ecological Applications, 2020, 30, e02143. | 3.8 | 15 |
| 44 | 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 |
| 45 | 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 |
| 46 | Airboat Use and Disturbance of Floating Mat Fen Wetlands in Interior Alaska, U.S.A.. Arctic, 1998, 51, . | 0.4 | 6 |
| 47 | 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 |
| 48 | 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 |
| 49 | Thermokarst. , 2021, , . | | 2 |