

Anna K Liljedahl

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,894
citations

331538

21
h-index

345118

36
g-index

54
all docs

54
docs citations

54
times ranked

2689
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	An Optimal GeoAI Workflow for Pan-Arctic Permafrost Feature Detection from High-Resolution Satellite Imagery. <i>Photogrammetric Engineering and Remote Sensing</i> , 2022, 88, 181-188.	0.3	8
3	Earlier snowmelt may lead to late season declines in plant productivity and carbon sequestration in Arctic tundra ecosystems. <i>Scientific Reports</i> , 2022, 12, 3986.	1.6	16
4	Use of Commercial Satellite Imagery to Monitor Changing Arctic Polygonal Tundra. <i>Photogrammetric Engineering and Remote Sensing</i> , 2022, 88, 255-262.	0.3	1
5	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
6	Decadal-scale hotspot methane ebullition within lakes following abrupt permafrost thaw. <i>Environmental Research Letters</i> , 2021, 16, 035010.	2.2	21
7	Understanding the Effects of Optimal Combination of Spectral Bands on Deep Learning Model Predictions: A Case Study Based on Permafrost Tundra Landform Mapping Using High Resolution Multispectral Satellite Imagery. <i>Journal of Imaging</i> , 2020, 6, 97.	1.7	22
8	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
9	Arctic riparian shrub expansion indicates a shift from streams gaining water to those that lose flow. <i>Communications Earth & Environment</i> , 2020, 1, .	2.6	15
10	Use of Very High Spatial Resolution Commercial Satellite Imagery and Deep Learning to Automatically Map Ice-Wedge Polygons across Tundra Vegetation Types. <i>Journal of Imaging</i> , 2020, 6, 137.	1.7	39
11	Understanding the synergies of deep learning and data fusion of multispectral and panchromatic high resolution commercial satellite imagery for automated ice-wedge polygon detection. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 170, 174-191.	4.9	32
12	Detection and Assessment of a Large and Potentially Tsunamigenic Periglacial Landslide in Barry Arm, Alaska. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089800.	1.5	30
13	Landscape impacts of 3D seismic surveys in the Arctic National Wildlife Refuge, Alaska. <i>Ecological Applications</i> , 2020, 30, e02143.	1.8	15
14	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
15	Glaciers and climate of the Upper Susitna basin, Alaska. <i>Earth System Science Data</i> , 2020, 12, 403-427.	3.7	1
16	Ice roads through lake-rich Arctic watersheds: Integrating climate uncertainty and freshwater habitat responses into adaptive management. <i>Arctic, Antarctic, and Alpine Research</i> , 2019, 51, 9-23.	0.4	22
17	Deep Convolutional Neural Networks for Automated Characterization of Arctic Ice-Wedge Polygons in Very High Spatial Resolution Aerial Imagery. <i>Remote Sensing</i> , 2018, 10, 1487.	1.8	83
18	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

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19	Large CO ₂ and CH ₄ emissions from polygonal tundra during spring thaw in northern Alaska. <i>Geophysical Research Letters</i> , 2017, 44, 504-513.	1.5	53
20	Recent Extreme Runoff Observations From Coastal Arctic Watersheds in Alaska. <i>Water Resources Research</i> , 2017, 53, 9145-9163.	1.7	32
21	Glacierized headwater streams as aquifer recharge corridors, subarctic Alaska. <i>Geophysical Research Letters</i> , 2017, 44, 6876-6885.	1.5	40
22	Tundra water budget and implications of precipitation underestimation. <i>Water Resources Research</i> , 2017, 53, 6472-6486.	1.7	26
23	A lake-centric geospatial database to guide research and inform management decisions in an Arctic watershed in northern Alaska experiencing climate and land-use changes. <i>Ambio</i> , 2017, 46, 769-786.	2.8	19
24	Mapping snow depth within a tundra ecosystem using multiscale observations and Bayesian methods. <i>Cryosphere</i> , 2017, 11, 857-875.	1.5	28
25	Pan-Arctic ice-wedge degradation in warming permafrost and its influence on tundra hydrology. <i>Nature Geoscience</i> , 2016, 9, 312-318.	5.4	527
26	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
27	Cold season emissions dominate the Arctic tundra methane budget. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 40-45.	3.3	278
28	Depth, ice thickness, and ice-out timing cause divergent hydrologic responses among Arctic lakes. <i>Water Resources Research</i> , 2015, 51, 9379-9401.	1.7	66
29	Using field observations to inform thermal hydrology models of permafrost dynamics with ATS (v0.83). <i>Geoscientific Model Development</i> , 2015, 8, 2701-2722.	1.3	56
30	Delayed responses of an Arctic ecosystem to an extreme summer: impacts on net ecosystem exchange and vegetation functioning. <i>Biogeosciences</i> , 2014, 11, 5877-5888.	1.3	24
31	Recursive active contours for hierarchical segmentation of wetlands in high-resolution satellite imagery of Arctic landscapes. , 2014, , .		5
32	Extrapolating active layer thickness measurements across Arctic polygonal terrain using LiDAR and <i>NDVI</i> data sets. <i>Water Resources Research</i> , 2014, 50, 6339-6357.	1.7	51
33	Using Synthetic Aperture Radar to Define Spring Breakup on the Kuparuk River, Northern Alaska. <i>Arctic</i> , 2014, 67, 462.	0.2	7
34	Nonlinear controls on evapotranspiration in arctic coastal wetlands. <i>Biogeosciences</i> , 2011, 8, 3375-3389.	1.3	93
35	Report from the International Permafrost Association: The Permafrost Young Researchers Network (PYRN). <i>Permafrost and Periglacial Processes</i> , 2009, 20, 417-419.	1.5	3
36	Interactions between soil thermal and hydrological dynamics in the response of Alaska ecosystems to fire disturbance. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	72

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37	Physical short-term changes after a tussock tundra fire, Seward Peninsula, Alaska. Journal of Geophysical Research, 2007, 112, .	3.3	43
38	Hydrological Model Simulations and Physical Impacts of a Tundra Watershed Affected by Wildfire, Seward Peninsula, Alaska. , 2005, , 1.		0
39	The Polar WRF Downscaled Historical and Projected Twenty-First Century Climate for the Coast and Foothills of Arctic Alaska. Frontiers in Earth Science, 0, 5, .	0.8	13
40	COUNTING ICE-WEDGE POLYGONS FROM SPACE: USE OF COMMERCIAL SATELLITE IMAGERY TO MONITOR CHANGING ARCTIC POLYGONAL TUNDRA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIV-M-3-2021, 67-72.	0.2	0
41	Modeled streamflow response to scenarios of tundra lake water withdrawal and seasonal climate extremes, Arctic Coastal Plain, Alaska. Water Resources Research, 0, , .	1.7	0