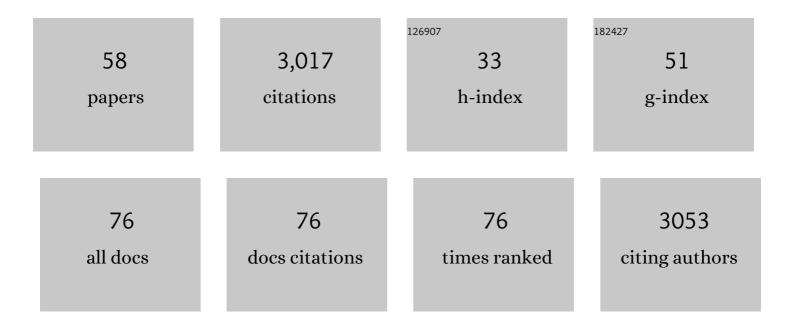
List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Baseline characteristics of climate, permafrost and land cover from a new permafrost observatory in the Lena River Delta, Siberia (1998–2011). Biogeosciences, 2013, 10, 2105-2128.   | 3.3  | 144       |
| 2  | Fast response of cold ice-rich permafrost in northeast Siberia to a warming climate. Nature Communications, 2020, 11, 2201.   | 12.8 | 134       |
| 3  | Small ponds with major impact: The relevance of ponds and lakes in permafrost landscapes to carbon dioxide emissions. Global Biogeochemical Cycles, 2012, 26, .   | 4.9  | 131       |
| 4  | Simulating high-latitude permafrost regions by the JSBACH terrestrial ecosystem model. Geoscientific<br>Model Development, 2014, 7, 631-647.  | 3.6  | 109       |
| 5  | SMOS prototype algorithm for detecting autumn soil freezing. Remote Sensing of Environment, 2016, 180, 346-360.   | 11.0 | 109       |
| 6  | Simulating the thermal regime and thaw processes of ice-rich permafrost ground with the land-surface model CryoGrid 3. Geoscientific Model Development, 2016, 9, 523-546.   | 3.6  | 104       |
| 7  | The annual surface energy budget of a high-arctic permafrost site on Svalbard, Norway. Cryosphere, 2009, 3, 245-263.  | 3.9  | 104       |
| 8  | Spatial and temporal variations of summer surface temperatures of high-arctic tundra on Svalbard —<br>Implications for MODIS LST based permafrost monitoring. Remote Sensing of Environment, 2011, 115,<br>908-922.             | 11.0 | 97        |
| 9  | Modeling the impact of wintertime rain events on the thermal regime of permafrost. Cryosphere, 2011, 5, 945-959.  | 3.9  | 95        |
| 10 | Subpixel heterogeneity of ice-wedge polygonal tundra: a multi-scale analysis of land cover and<br>evapotranspiration in the Lena River Delta, Siberia. Tellus, Series B: Chemical and Physical<br>Meteorology, 2022, 64, 17301. | 1.6  | 94        |
| 11 | Satellite-based modeling of permafrost temperatures in a tundra lowland landscape. Remote Sensing of Environment, 2013, 135, 12-24.   | 11.0 | 91        |
| 12 | An improved representation of physical permafrost dynamics in the JULES land-surface model.<br>Geoscientific Model Development, 2015, 8, 1493-1508.   | 3.6  | 79        |
| 13 | The surface energy balance of a polygonal tundra site in northern Siberia – Part 1: Spring to fall.<br>Cryosphere, 2011, 5, 151-171.  | 3.9  | 77        |
| 14 | Systematic bias of average winter-time land surface temperatures inferred from MODIS at a site on<br>Svalbard, Norway. Remote Sensing of Environment, 2012, 118, 162-167.   | 11.0 | 75        |
| 15 | Spatial and temporal variations of summer surface temperatures of wet polygonal tundra in Siberia -<br>implications for MODIS LST based permafrost monitoring. Remote Sensing of Environment, 2010, 114,<br>2059-2069.          | 11.0 | 74        |
| 16 | Spatial and seasonal variability of polygonal tundra water balance: Lena River Delta, northern Siberia<br>(Russia). Hydrogeology Journal, 2013, 21, 133-147.  | 2.1  | 71        |
| 17 | Satellite-derived changes in the permafrost landscape of central Yakutia, 2000–2011: Wetting, drying,<br>and fires. Global and Planetary Change, 2016, 139, 116-127.  | 3.5  | 69        |
| 18 | Thaw Subsidence of a Yedoma Landscape in Northern Siberia, Measured In Situ and Estimated from<br>TerraSAR-X Interferometry. Remote Sensing, 2018, 10, 494.   | 4.0  | 69        |

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|----|--|------|-----------|
| 19 | A 16-year record (2002–2017) of permafrost, active-layer, and meteorological conditions at the<br>Samoylov Island Arctic permafrost research site, Lena River delta, northern Siberia: an opportunity to<br>validate remote-sensing data and land surface, snow, and permafrost models. Earth System Science<br>Data, 2019, 11, 261-299. | 9.9  | 69        |
| 20 | The surface energy balance of a polygonal tundra site in northern Siberia – Part 2: Winter.<br>Cryosphere, 2011, 5, 509-524.   | 3.9  | 63        |
| 21 | PeRL: aÂcircum-Arctic Permafrost Region Pond andÂLakeÂdatabase. Earth System Science Data, 2017, 9,<br>317-348.  | 9.9  | 62        |
| 22 | Spatio-temporal sensitivity of MODIS land surface temperature anomalies indicates high potential for<br>large-scale land cover change detection in Arctic permafrost landscapes. Remote Sensing of<br>Environment, 2015, 168, 1-12.  | 11.0 | 58        |
| 23 | Frozen ponds: production and storage of methane during the Arctic winter in a lowland tundra<br>landscape in northern Siberia, Lena River delta. Biogeosciences, 2015, 12, 977-990.  | 3.3  | 58        |
| 24 | Thaw processes in ice-rich permafrost landscapes represented with laterally coupled tiles in a land surface model. Cryosphere, 2019, 13, 591-609.  | 3.9  | 57        |
| 25 | Impact of model developments on present and future simulations of permafrost in a global land-surface model. Cryosphere, 2015, 9, 1505-1521.   | 3.9  | 54        |
| 26 | Rapid degradation of permafrost underneath waterbodies in tundra landscapes—Toward a<br>representation of thermokarst in land surface models. Journal of Geophysical Research F: Earth<br>Surface, 2016, 121, 2446-2470.   | 2.8  | 54        |
| 27 | Latent heat exchange in the boreal and arctic biomes. Global Change Biology, 2014, 20, 3439-3456.  | 9.5  | 52        |
| 28 | Pathways of ice-wedge degradation in polygonal tundra under different hydrological conditions.<br>Cryosphere, 2019, 13, 1089-1123.   | 3.9  | 46        |
| 29 | Permafrost Thaw and Liberation of Inorganic Nitrogen in Eastern Siberia. Permafrost and Periglacial<br>Processes, 2017, 28, 605-618.   | 3.4  | 43        |
| 30 | Carbon stocks and fluxes in the high latitudes: using site-level data to evaluate Earth system models.<br>Biogeosciences, 2017, 14, 5143-5169.   | 3.3  | 43        |
| 31 | Consequences of permafrost degradation for Arctic infrastructure – bridging the model gap between regional and engineering scales. Cryosphere, 2021, 15, 2451-2471.  | 3.9  | 42        |
| 32 | Site-level model intercomparison of high latitude and high altitude soil thermal dynamics in tundra and barren landscapes. Cryosphere, 2015, 9, 1343-1361.   | 3.9  | 41        |
| 33 | Transient modeling of the ground thermal conditions using satellite data in the Lena River delta,<br>Siberia. Cryosphere, 2017, 11, 1441-1463.   | 3.9  | 41        |
| 34 | Freeze/thaw processes in complex permafrost landscapes of northern Siberia simulated using the TEM<br>ecosystem model: impact of thermokarst ponds and lakes. Geoscientific Model Development, 2014, 7,<br>1671-1689.  | 3.6  | 39        |
| 35 | Thermal processes of thermokarst lakes in the continuous permafrost zone of northern Siberia –<br>observations and modeling (Lena River Delta, Siberia). Biogeosciences, 2015, 12, 5941-5965.  | 3.3  | 38        |
| 36 | Observation and modelling of snow at a polygonal tundra permafrost site: spatial variability and thermal implications. Cryosphere, 2018, 12, 3693-3717.  | 3.9  | 33        |

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|----|--|------|-----------|
| 37 | Monitoring Bedfast Ice and Ice Phenology in Lakes of the Lena River Delta Using TerraSAR-X<br>Backscatter and Coherence Time Series. Remote Sensing, 2016, 8, 903.   | 4.0  | 32        |
| 38 | Spatio-temporal variability of X-band radar backscatter and coherence over the Lena River Delta,<br>Siberia. Remote Sensing of Environment, 2016, 182, 169-191.  | 11.0 | 30        |
| 39 | Size Distributions of Arctic Waterbodies Reveal Consistent Relations in Their Statistical Moments in Space and Time. Frontiers in Earth Science, 2019, 7, .  | 1.8  | 25        |
| 40 | Improving Permafrost Modeling by Assimilating Remotely Sensed Soil Moisture. Water Resources<br>Research, 2019, 55, 1814-1832.   | 4.2  | 22        |
| 41 | Permafrost – Physical Aspects, Carbon Cycling, Databases and Uncertainties. , 2012, , 159-185.   |      | 20        |
| 42 | Climate change reduces winter overland travel across the Pan-Arctic even under low-end global warming scenarios. Environmental Research Letters, 2021, 16, 024049.   | 5.2  | 20        |
| 43 | Simulating Snow Redistribution and its Effect on Ground Surface Temperature at a Highâ€Arctic Site on<br>Svalbard. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005673.                       | 2.8  | 20        |
| 44 | A long-term (2002 to 2017) record of closed-path and open-path eddy covariance<br>CO <sub>2</sub> net ecosystem exchange fluxes from the Siberian Arctic.<br>Earth System Science Data, 2019, 11, 221-240.           | 9.9  | 20        |
| 45 | Variability of the surface energy balance in permafrost-underlain boreal forest. Biogeosciences, 2021,<br>18, 343-365.   | 3.3  | 19        |
| 46 | Multitemporal terrestrial laser scanning point clouds for thaw subsidence observation at Arctic permafrost monitoring sites. Earth Surface Processes and Landforms, 2020, 45, 1589-1600.                             | 2.5  | 17        |
| 47 | Effects of multi-scale heterogeneity on the simulated evolution of ice-rich permafrost lowlands under a warming climate. Cryosphere, 2021, 15, 1399-1422.  | 3.9  | 16        |
| 48 | A Quantitative Graph-Based Approach to Monitoring Ice-Wedge Trough Dynamics in Polygonal<br>Permafrost Landscapes. Remote Sensing, 2021, 13, 3098.   | 4.0  | 12        |
| 49 | Lateral thermokarst patterns in permafrost peat plateaus in northern Norway. Cryosphere, 2021, 15,<br>3423-3442.   | 3.9  | 11        |
| 50 | Sensitivity of ecosystem-protected permafrost under changing boreal forest structures.<br>Environmental Research Letters, 2021, 16, 084045.  | 5.2  | 11        |
| 51 | Lakeâ€Atmosphere Heat Flux Dynamics of a Thermokarst Lake in Arctic Siberia. Journal of Geophysical<br>Research D: Atmospheres, 2018, 123, 5222-5239.  | 3.3  | 10        |
| 52 | Serpentine (Floating) Ice Channels and their Interaction with Riverbed Permafrost in the Lena River<br>Delta, Russia. Frontiers in Earth Science, 0, 9, .  | 1.8  | 10        |
| 53 | Surface temperatures and their influence on the permafrost thermal regime in high-Arctic rock walls on Svalbard. Cryosphere, 2021, 15, 2491-2509.  | 3.9  | 7         |
| 54 | Novel coupled permafrost–forest model (LAVESI–CryoGrid v1.0) revealing the interplay between<br>permafrost, vegetation, and climate across eastern Siberia. Geoscientific Model Development, 2022, 15,<br>2395-2422. | 3.6  | 7         |

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| 55 | Borehole temperature reconstructions reveal differences in past surface temperature trends for the permafrost in the Laptev Sea region, Russian Arctic. Arktos, 2018, 4, 1-17. | 1.0 | 5         |
| 56 | Monitoring the Transformation of Arctic Landscapes: Automated Shoreline Change Detection of Lakes<br>Using Very High Resolution Imagery. Remote Sensing, 2021, 13, 2802.       | 4.0 | 5         |
| 57 | Low Cost, Mobile Sensor System for Measurement of Carbon Dioxide in Permafrost Areas. Procedia<br>Engineering, 2014, 87, 1318-1321.  | 1.2 | 3         |
| 58 | Thermohydrological Impact of Forest Disturbances on Ecosystemâ€Protected Permafrost. Journal of<br>Geophysical Research G: Biogeosciences, 2022, 127, .                        | 3.0 | 3         |