

Guido Grosse

List of Publications by Year in descending order

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Version: 2024-02-01

167
papers

15,721
citations

28274

55
h-index

19749

117
g-index

230
all docs

230
docs citations

230
times ranked

9633
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change and the permafrost carbon feedback. <i>Nature</i> , 2015, 520, 171-179.	27.8	2,369
2	Estimated stocks of circumpolar permafrost carbon with quantified uncertainty ranges and identified data gaps. <i>Biogeosciences</i> , 2014, 11, 6573-6593.	3.3	1,079
3	Permafrost is warming at a global scale. <i>Nature Communications</i> , 2019, 10, 264.	12.8	1,039
4	Pan-Arctic ice-wedge degradation in warming permafrost and its influence on tundra hydrology. <i>Nature Geoscience</i> , 2016, 9, 312-318.	12.9	527
5	Carbon release through abrupt permafrost thaw. <i>Nature Geoscience</i> , 2020, 13, 138-143.	12.9	434
6	Circumpolar distribution and carbon storage of thermokarst landscapes. <i>Nature Communications</i> , 2016, 7, 13043.	12.8	343
7	Vulnerability of high-latitude soil organic carbon in North America to disturbance. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	337
8	Thermokarst Lakes as a Source of Atmospheric CH ₄ During the Last Deglaciation. <i>Science</i> , 2007, 318, 633-636.	12.6	287
9	Field information links permafrost carbon to physical vulnerabilities of thawing. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	265
10	Expert assessment of vulnerability of permafrost carbon to climate change. <i>Climatic Change</i> , 2013, 119, 359-374.	3.6	257
11	Modern thermokarst lake dynamics in the continuous permafrost zone, northern Seward Peninsula, Alaska. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	250
12	A shift of thermokarst lakes from carbon sources to sinks during the Holocene epoch. <i>Nature</i> , 2014, 511, 452-456.	27.8	246
13	Permafrost collapse is accelerating carbon release. <i>Nature</i> , 2019, 569, 32-34.	27.8	237
14	Deep Yedoma permafrost: A synthesis of depositional characteristics and carbon vulnerability. <i>Earth-Science Reviews</i> , 2017, 172, 75-86.	9.1	236
15	Geologic methane seeps along boundaries of Arctic permafrost thaw and melting glaciers. <i>Nature Geoscience</i> , 2012, 5, 419-426.	12.9	211
16	8.21 Thermokarst Lakes, Drainage, and Drained Basins. , 2013, , 325-353.		194
17	The deep permafrost carbon pool of the Yedoma region in Siberia and Alaska. <i>Geophysical Research Letters</i> , 2013, 40, 6165-6170.	4.0	187
18	21st-century modeled permafrost carbon emissions accelerated by abrupt thaw beneath lakes. <i>Nature Communications</i> , 2018, 9, 3262.	12.8	187

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19	Sedimentary characteristics and origin of the Late Pleistocene Ice Complex on north-east Siberian Arctic coastal lowlands and islands – A review. <i>Quaternary International</i> , 2011, 241, 3-25.	1.5	182
20	Remote sensing quantifies widespread abundance of permafrost region disturbances across the Arctic and Subarctic. <i>Nature Communications</i> , 2018, 9, 5423.	12.8	179
21	Short- and long-term thermo-erosion of ice-rich permafrost coasts in the Laptev Sea region. <i>Biogeosciences</i> , 2013, 10, 4297-4318.	3.3	167
22	Methane emissions proportional to permafrost carbon thawed in Arctic lakes since the 1950s. <i>Nature Geoscience</i> , 2016, 9, 679-682.	12.9	150
23	A simplified, data-constrained approach to estimate the permafrost carbon–climate feedback. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140423.	3.4	149
24	A new data set for estimating organic carbon storage to 3 m depth in soils of the northern circumpolar permafrost region. <i>Earth System Science Data</i> , 2013, 5, 393-402.	9.9	148
25	Fossil organic matter characteristics in permafrost deposits of the northeast Siberian Arctic. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	147
26	Changing permafrost in a warming world and feedbacks to the Earth system. <i>Environmental Research Letters</i> , 2016, 11, 040201.	5.2	143
27	PERMAFROST AND PERIGLACIAL FEATURES Yedoma: Late Pleistocene Ice-Rich Syngenetic Permafrost of Beringia. , 2013, , 542-552.		139
28	Recent Arctic tundra fire initiates widespread thermokarst development. <i>Scientific Reports</i> , 2015, 5, 15865.	3.3	139
29	Land cover classification of tundra environments in the Arctic Lena Delta based on Landsat 7 ETM+ data and its application for upscaling of methane emissions. <i>Remote Sensing of Environment</i> , 2009, 113, 380-391.	11.0	123
30	Vulnerability and Feedbacks of Permafrost to Climate Change. <i>Eos</i> , 2011, 92, 73-74.	0.1	121
31	Spatial analyses of thermokarst lakes and basins in Yedoma landscapes of the Lena Delta. <i>Cryosphere</i> , 2011, 5, 849-867.	3.9	121
32	Deposition and degradation of a volatile-rich layer in Utopia Planitia and implications for climate history on Mars. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	116
33	Observation-based modelling of permafrost carbon fluxes with accounting for deep carbon deposits and thermokarst activity. <i>Biogeosciences</i> , 2015, 12, 3469-3488.	3.3	114
34	Landsat-Based Trend Analysis of Lake Dynamics across Northern Permafrost Regions. <i>Remote Sensing</i> , 2017, 9, 640.	4.0	110
35	Hydrogeomorphic processes of thermokarst lakes with grounded–ice and floating–ice regimes on the Arctic coastal plain, Alaska. <i>Hydrological Processes</i> , 2011, 25, 2422-2438.	2.6	106
36	Polygonal tundra geomorphological change in response to warming alters future CO_2 and CH_4 flux on the Barrow Peninsula. <i>Global Change Biology</i> , 2015, 21, 1634-1651.	9.5	100

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37	Reduced arctic tundra productivity linked with landform and climate change interactions. Scientific Reports, 2018, 8, 2345.	3.3	100
38	Geological and geomorphological evolution of a sedimentary periglacial landscape in Northeast Siberia during the Late Quaternary. Geomorphology, 2007, 86, 25-51.	2.6	99
39	The use of CORONA images in remote sensing of periglacial geomorphology: an illustration from the NE Siberian coast. Permafrost and Periglacial Processes, 2005, 16, 163-172.	3.4	92
40	Weichselian and Holocene palaeoenvironmental history of the Bol'shoy Lyakhovsky Island, New Siberian Archipelago, Arctic Siberia. Boreas, 2009, 38, 72-110.	2.4	92
41	Late Quaternary History of the Accumulation Plain North of the Chekanovsky Ridge (Lena Delta,) Tj ETQq1 1 0.784314 rgBT /Overlock 1.9 86	1.9	86
42	Peat accumulation in drained thermokarst lake basins in continuous, ice-rich permafrost, northern Seward Peninsula, Alaska. Journal of Geophysical Research, 2012, 117, .	3.3	84
43	Widespread global peatland establishment and persistence over the last 130,000 y. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4822-4827.	7.1	82
44	Organic carbon and total nitrogen stocks in soils of the Lena River Delta. Biogeosciences, 2013, 10, 3507-3524.	3.3	81
45	Detection of landscape dynamics in the Arctic Lena Delta with temporally dense Landsat time-series stacks. Remote Sensing of Environment, 2016, 181, 27-41.	11.0	76
46	Remote Sensing of Landscape Change in Permafrost Regions. Permafrost and Periglacial Processes, 2016, 27, 324-338.	3.4	74
47	A decade of remotely sensed observations highlight complex processes linked to coastal permafrost bluff erosion in the Arctic. Environmental Research Letters, 2018, 13, 115001.	5.2	73
48	Quantifying Wedge-Ice Volumes in Yedoma and Thermokarst Basin Deposits. Permafrost and Periglacial Processes, 2014, 25, 151-161.	3.4	72
49	Late Saalian and Eemian palaeoenvironmental history of the Bol'shoy Lyakhovsky Island (Laptev Sea) Tj ETQq1 1 0.784314 rgBT /Overlock 2.4 68	2.4	68
50	Periglacial landscape evolution and environmental changes of Arctic lowland areas for the last 60 000 years (western Laptev Sea coast, Cape Mamontov Klyk). Polar Research, 2008, 27, 249-272.	1.6	68
51	Threshold sensitivity of shallow Arctic lakes and sublake permafrost to changing winter climate. Geophysical Research Letters, 2016, 43, 6358-6365.	4.0	68
52	Coastal erosion dynamics on the permafrost-dominated Bykovsky Peninsula, north Siberia, 1951â€“2006. Polar Research, 2011, 30, 7341.	1.6	67
53	Coastal erosion and mass wasting along the Canadian Beaufort Sea based on annual airborne LiDAR elevation data. Geomorphology, 2017, 293, 331-346.	2.6	67
54	Spatial distribution of thermokarst terrain in Arctic Alaska. Geomorphology, 2016, 273, 116-133.	2.6	66

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55	Tundra be dammed: Beaver colonization of the Arctic. <i>Global Change Biology</i> , 2018, 24, 4478-4488.	9.5	66
56	Using the deuterium isotope composition of permafrost meltwater to constrain thermokarst lake contributions to atmospheric CH ₄ during the last deglaciation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	64
57	Holocene land-cover changes on the Tibetan Plateau. <i>Holocene</i> , 2010, 20, 91-104.	1.7	62
58	PeRL: a Circum-Arctic Permafrost Region Pond and Lake database. <i>Earth System Science Data</i> , 2017, 9, 317-348.	9.9	62
59	Recent lake ice-out phenology within and among lake districts of Alaska, U.S.A. <i>Limnology and Oceanography</i> , 2013, 58, 2013-2028.	3.1	59
60	Identification of unrecognized tundra fire events on the north slope of Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1334-1344.	3.0	58
61	Impacts of disturbance on the terrestrial carbon budget of North America. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 303-316.	3.0	57
62	Rapid degradation of permafrost underneath waterbodies in tundra landscapes—Toward a representation of thermokarst in land surface models. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 2446-2470.	2.8	54
63	Spectral characterization of periglacial surfaces and geomorphological units in the Arctic Lena Delta using field spectrometry and remote sensing. <i>Remote Sensing of Environment</i> , 2009, 113, 1220-1235.	11.0	51
64	Late Quaternary paleoenvironmental records from the western Lena Delta, Arctic Siberia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 299, 175-196.	2.3	51
65	The catastrophic thermokarst lake drainage events of 2018 in northwestern Alaska: fast-forward into the future. <i>Cryosphere</i> , 2020, 14, 4279-4297.	3.9	51
66	Seasonal thaw settlement at drained thermokarst lake basins, Arctic Alaska. <i>Cryosphere</i> , 2014, 8, 815-826.	3.9	50
67	Variability in Rates of Coastal Change Along the Yukon Coast, 1951 to 2015. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 779-800.	2.8	50
68	Circum-Arctic Map of the Yedoma Permafrost Domain. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	49
69	Continental climate in the East Siberian Arctic during the last interglacial: Implications from palaeobotanical records. <i>Global and Planetary Change</i> , 2008, 60, 535-562.	3.5	48
70	Quantifying landscape change in an arctic coastal lowland using repeat airborne LiDAR. <i>Environmental Research Letters</i> , 2013, 8, 045025.	5.2	47
71	Remote sensing annual dynamics of rapid permafrost thaw disturbances with LandTrendr. <i>Remote Sensing of Environment</i> , 2022, 268, 112752.	11.0	47
72	Characterisation of the Permafrost Carbon Pool. <i>Permafrost and Periglacial Processes</i> , 2013, 24, 146-155.	3.4	46

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73	The Borealâ€“Arctic Wetland and Lake Dataset (BAWLD). <i>Earth System Science Data</i> , 2021, 13, 5127-5149.	9.9	46
74	Application of Landsat-7 satellite data and a DEM for the quantification of thermokarst-affected terrain types in the periglacial Lena-Anabar coastal lowland. <i>Polar Research</i> , 2006, 25, 51-67.	1.6	45
75	Detecting unfrozen sediments below thermokarst lakes with surface nuclear magnetic resonance. <i>Geophysical Research Letters</i> , 2013, 40, 535-540.	4.0	45
76	Remote sensing northern lake methane ebullition. <i>Nature Climate Change</i> , 2020, 10, 511-517.	18.8	45
77	Spatial distribution of pingos in northern Asia. <i>Cryosphere</i> , 2011, 5, 13-33.	3.9	44
78	Thermokarst lake methanogenesis along a complete talik profile. <i>Biogeosciences</i> , 2015, 12, 4317-4331.	3.3	43
79	Drainage Network Structure and Hydrologic Behavior of Three Lake-Rich Watersheds on the Arctic Coastal Plain, Alaska. <i>Arctic, Antarctic, and Alpine Research</i> , 2012, 44, 385-398.	1.1	41
80	Lake and drained lake basin systems in lowland permafrost regions. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 85-98.	29.7	41
81	Geomorphological and Climatic Drivers of Thermokarst Lake Area Increase Trend (1999â€“2018) in the Kolyma Lowland Yedoma Region, North-Eastern Siberia. <i>Remote Sensing</i> , 2021, 13, 178.	4.0	40
82	Coastal dynamics and submarine permafrost in shallow water of the central Laptev Sea, East Siberia. <i>Cryosphere</i> , 2016, 10, 1449-1462.	3.9	39
83	Facies analysis of yedoma thermokarst lakes on the northern Seward Peninsula, Alaska. <i>Sedimentary Geology</i> , 2016, 340, 25-37.	2.1	38
84	Carbon and nitrogen pools in thermokarst-affected permafrost landscapes in Arctic Siberia. <i>Biogeosciences</i> , 2018, 15, 953-971.	3.3	38
85	Rapid Fluvio-Thermal Erosion of a Yedoma Permafrost Cliff in the Lena River Delta. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	38
86	Assessment of pingo distribution and morphometry using an IfSAR derived digital surface model, western Arctic Coastal Plain, Northern Alaska. <i>Geomorphology</i> , 2012, 138, 1-14.	2.6	37
87	Rapid movement of frozen debris-lobes: implications for permafrost degradation and slope instability in the south-central Brooks Range, Alaska. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 1521-1537.	3.6	37
88	Quantification of upland thermokarst features with high resolution remote sensing. <i>Environmental Research Letters</i> , 2013, 8, 035016.	5.2	35
89	The evolution of a thermokarst-lake landscape: Late Quaternary permafrost degradation and stabilization in interior Alaska. <i>Sedimentary Geology</i> , 2016, 340, 3-14.	2.1	35
90	Sub-seasonal thaw slump mass wasting is not consistently energy limited at the landscape scale. <i>Cryosphere</i> , 2018, 12, 549-564.	3.9	35

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91	Presence of rapidly degrading permafrost plateaus in south-central Alaska. <i>Cryosphere</i> , 2016, 10, 2673-2692.	3.9	34
92	Characterizing Post-Drainage Succession in Thermokarst Lake Basins on the Seward Peninsula, Alaska with TerraSAR-X Backscatter and Landsat-based NDVI Data. <i>Remote Sensing</i> , 2012, 4, 3741-3765.	4.0	33
93	Late Quaternary environmental and landscape dynamics revealed by a pingo sequence on the northern Seward Peninsula, Alaska. <i>Quaternary Science Reviews</i> , 2012, 39, 26-44.	3.0	32
94	Synthetic aperture radar (SAR) backscatter response from methane ebullition bubbles trapped by thermokarst lake ice. <i>Canadian Journal of Remote Sensing</i> , 2013, 38, 667-682.	2.4	31
95	Sentinel-1 InSAR Measurements of Elevation Changes over Yedoma Uplands on Sobo-Sise Island, Lena Delta. <i>Remote Sensing</i> , 2018, 10, 1152.	4.0	31
96	Identifying historical and future potential lake drainage events on the western Arctic coastal plain of Alaska. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 110-127.	3.4	30
97	Organic matter characteristics in yedoma and thermokarst deposits on Baldwin Peninsula, west Alaska. <i>Biogeosciences</i> , 2018, 15, 6033-6048.	3.3	28
98	Monitoring Inter- and Intra-Seasonal Dynamics of Rapidly Degrading Ice-Rich Permafrost Riverbanks in the Lena Delta with TerraSAR-X Time Series. <i>Remote Sensing</i> , 2018, 10, 51.	4.0	28
99	Heat and Salt Flow in Subsea Permafrost Modeled with CryoGRID2. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 920-937.	2.8	28
100	A synthesis of methane dynamics in thermokarst lake environments. <i>Earth-Science Reviews</i> , 2020, 210, 103365.	9.1	28
101	High potential for loss of permafrost landforms in a changing climate. <i>Environmental Research Letters</i> , 2020, 15, 104065.	5.2	28
102	The genesis of Yedoma Ice Complex permafrost " grain-size endmember modeling analysis from Siberia and Alaska. <i>E&G Quaternary Science Journal</i> , 2020, 69, 33-53.	0.7	28
103	Classification of freshwater ice conditions on the Alaskan Arctic Coastal Plain using ground penetrating radar and TerraSAR-X satellite data. <i>International Journal of Remote Sensing</i> , 2013, 34, 8267-8279.	2.9	27
104	Degrading permafrost river catchments and their impact on Arctic Ocean nearshore processes. <i>Ambio</i> , 2022, 51, 439-455.	5.5	27
105	Erosional history of Cape Halkett and contemporary monitoring of bluff retreat, Beaufort Sea coast, Alaska. <i>Polar Geography</i> , 2009, 32, 129-142.	1.9	26
106	Characterization of L-band synthetic aperture radar (SAR) backscatter from floating and grounded thermokarst lake ice in Arctic Alaska. <i>Cryosphere</i> , 2013, 7, 1741-1752.	3.9	26
107	Mid-Wisconsin to Holocene Permafrost and Landscape Dynamics based on a Drained Lake Basin Core from the Northern Seward Peninsula, Northwest Alaska. <i>Permafrost and Periglacial Processes</i> , 2016, 27, 56-75.	3.4	26
108	Tundra landform and vegetation productivity trend maps for the Arctic Coastal Plain of northern Alaska. <i>Scientific Data</i> , 2018, 5, 180058.	5.3	26

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109	Expanding infrastructure and growing anthropogenic impacts along Arctic coasts. <i>Environmental Research Letters</i> , 2021, 16, 115013.	5.2	26
110	Distribution and biophysical processes of beaded streams in Arctic permafrost landscapes. <i>Biogeosciences</i> , 2015, 12, 29-47.	3.3	25
111	Detection and spatiotemporal analysis of methane ebullition on thermokarst lake ice using high-resolution optical aerial imagery. <i>Biogeosciences</i> , 2016, 13, 27-44.	3.3	25
112	Size Distributions of Arctic Waterbodies Reveal Consistent Relations in Their Statistical Moments in Space and Time. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	25
113	Evidence of multiple thermokarst lake generations from an 11,800-year-old permafrost core on the northern Seward Peninsula, Alaska. <i>Boreas</i> , 2016, 45, 584-603.	2.4	24
114	Thawing Yedoma permafrost is a neglected nitrous oxide source. <i>Nature Communications</i> , 2021, 12, 7107.	12.8	24
115	Spatiotemporal patterns of northern lake formation since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2021, 253, 106773.	3.0	23
116	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.	1.1	22
117	Expansion rate and geometry of floating vegetation mats on the margins of thermokarst lakes, northern Seward Peninsula, Alaska, USA. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1889-1897.	2.5	21
118	Transient Electromagnetic Surveys for the Determination of Talik Depth and Geometry Beneath Thermokarst Lakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9310-9323.	3.4	21
119	Decadal-scale hotspot methane ebullition within lakes following abrupt permafrost thaw. <i>Environmental Research Letters</i> , 2021, 16, 035010.	5.2	21
120	Greenhouse gas production and lipid biomarker distribution in Yedoma and Alas thermokarst lake sediments in Eastern Siberia. <i>Global Change Biology</i> , 2021, 27, 2822-2839.	9.5	21
121	Increase in beaver dams controls surface water and thermokarst dynamics in an Arctic tundra region, Baldwin Peninsula, northwestern Alaska. <i>Environmental Research Letters</i> , 2020, 15, 075005.	5.2	20
122	Developing and Testing a Deep Learning Approach for Mapping Retrogressive Thaw Slumps. <i>Remote Sensing</i> , 2021, 13, 4294.	4.0	20
123	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.	5.5	19
124	Comparing Spectral Characteristics of Landsat-8 and Sentinel-2 Same-Day Data for Arctic-Boreal Regions. <i>Remote Sensing</i> , 2019, 11, 1730.	4.0	19
125	Active Layer Stratigraphy and Organic Layer Thickness at a Thermokarst Site in Arctic Alaska Identified Using Ground Penetrating Radar. <i>Arctic, Antarctic, and Alpine Research</i> , 2015, 47, 195-202.	1.1	18
126	Simulating soil organic carbon in yedoma deposits during the Last Glacial Maximum in a land surface model. <i>Geophysical Research Letters</i> , 2016, 43, 5133-5142.	4.0	18

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127	Century-scale time since permafrost thaw affects temperature sensitivity of net methane production in thermokarst-lake and talik sediments. <i>Science of the Total Environment</i> , 2019, 691, 124-134.	8.0	18
128	Thermo-erosional valleys in Siberian ice-rich permafrost. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 59-75.	3.4	18
129	The mystery of Bunge Land (New Siberian Archipelago): implications for its formation based on palaeoenvironmental records, geomorphology, and remote sensing. <i>Quaternary Science Reviews</i> , 2010, 29, 3598-3614.	3.0	17
130	Ground penetrating radar detection of subsnow slush on ice-covered lakes in interior Alaska. <i>Cryosphere</i> , 2012, 6, 1435-1443.	3.9	17
131	Organic carbon characteristics in ice-rich permafrost in alas and Yedoma deposits, central Yakutia, Siberia. <i>Biogeosciences</i> , 2020, 17, 3797-3814.	3.3	17
132	Impacts of shore expansion and catchment characteristics on lacustrine thermokarst records in permafrost lowlands, Alaska Arctic Coastal Plain. <i>Arktos</i> , 2016, 2, 1.	1.0	16
133	Organic Carbon and Nitrogen Stocks Along a Thermokarst Lake Sequence in Arctic Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1230-1247.	3.0	16
134	Application of Landsat-7 satellite data and a DEM for the quantification of thermokarst-affected terrain types in the periglacial Lena-Anabar coastal lowland. <i>Polar Research</i> , 2006, 25, 51-67.	1.6	15
135	The role of wetland expansion and successional processes in methane emissions from northern wetlands during the Holocene. <i>Quaternary Science Reviews</i> , 2021, 257, 106864.	3.0	15
136	Landsat-based lake distribution and changes in western Alaska permafrost regions between the 1970s and 2010s. <i>Environmental Research Letters</i> , 2021, 16, 025006.	5.2	15
137	Diatom records and tephra mineralogy in pingo deposits of Seward Peninsula, Alaska. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 479, 1-15.	2.3	14
138	Sediment characteristics of a thermokarst lagoon in the northeastern Siberian Arctic (Ivashkina). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30</i>	1.0	14
139	Late Saalian and Eemian palaeoenvironmental history of the Bol'shoy Lyakhovsky Island (Laptev Sea). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 13</i>	2.4	13
140	Thermokarst Lake to Lagoon Transitions in Eastern Siberia: Do Submerged Taliks Refreeze?. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005424.	2.8	12
141	Mosaicking Landsat and Sentinel-2 Data to Enhance LandTrendr Time Series Analysis in Northern High Latitude Permafrost Regions. <i>Remote Sensing</i> , 2020, 12, 2471.	4.0	12
142	First pan-Arctic assessment of dissolved organic carbon in lakes of the permafrost region. <i>Biogeosciences</i> , 2021, 18, 3917-3936.	3.3	12
143	Onshore Thermokarst Primes Subsea Permafrost Degradation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093881.	4.0	12
144	A Quantitative Graph-Based Approach to Monitoring Ice-Wedge Trough Dynamics in Polygonal Permafrost Landscapes. <i>Remote Sensing</i> , 2021, 13, 3098.	4.0	12

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145	Alaskan marine transgressions record out-of-phase Arctic Ocean glaciation during the last interglacial. <i>Geology</i> , 2018, 46, 783-786.	4.4	11
146	n-Alkane Characteristics of Thawed Permafrost Deposits Below a Thermokarst Lake on Bykovsky Peninsula, Northeastern Siberia. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	10
147	Iron Redistribution Upon Thermokarst Processes in the Yedoma Domain. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	10
148	Mineral Element Stocks in the Yedoma Domain: A Novel Method Applied to Ice-Rich Permafrost Regions. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	10
149	An Object-Based Classification Method to Detect Methane Ebullition Bubbles in Early Winter Lake Ice. <i>Remote Sensing</i> , 2019, 11, 822.	4.0	8
150	Remote Sensing-Based Statistical Approach for Defining Drained Lake Basins in a Continuous Permafrost Region, North Slope of Alaska. <i>Remote Sensing</i> , 2021, 13, 2539.	4.0	8
151	Expanding beaver pond distribution in Arctic Alaska, 1949 to 2019. <i>Scientific Reports</i> , 2022, 12, 7123.	3.3	8
152	Methane pathways in winter ice of a thermokarst lakeâ€“lagoonâ€“coastal water transect in north Siberia. <i>Cryosphere</i> , 2021, 15, 1607-1625.	3.9	7
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