Guido Grosse

List of Articles by Year in descending order

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Version: 2025-02-01

203 peer-reviewed articles	16,997 peer-reviewed citations	27033 56 peer-reviewed h-index	465932 4.03 score
216 documents	19783 doc citations	26244 61 h-index	16492 citing authors

#	Article	IF	Citations
1	Tracing recent large herbivore influence on soil carbon in permafrost and seasonally frozen Arctic ground using lipid biomarkers: a pilot study. Arctic Science, 2025, 11, 1-15.	1.7	0
2	Advancing the Arctic Methane Permafrost Challenge (AMPAC) With Future Satellite Missions. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2025, 18, 6279-6298.	4.0	6
3	Rapid Changes in Retrogressive Thaw Slump Dynamics in the Russian High Arctic Based on Very High-Resolution Remote Sensing. Geophysical Research Letters, 2025, 52, .	2.9	20
4	Rising Arctic seas and thawing permafrost: uncovering the carbon cycle impact in a thermokarst lagoon system in the outer Mackenzie Delta, Canada. Biogeosciences, 2025, 22, 2069-2086.	2.2	2
5	Annual and sub-seasonal dynamics of a rapidly eroding permafrost coastline along the Beaufort Sea in northern Alaska. Scientific Reports, 2025, 15, .	2.7	4
6	Organic carbon, mercury, and sediment characteristics along a land–shore transect in Arctic Alaska. Biogeosciences, 2025, 22, 2871-2887.	2.2	3
7	Leveraging multi-decadal, multi-modal high-resolution optical imagery towards automated Arctic coastal erosion monitoring with deep learning. Geomorphology, 2025, 487, 109914.	2.2	2
8	Using Texture-Based Image Segmentation and Machine Learning With High-Resolution Satellite Imagery to Assess Permafrost Degradation Landforms in the Russian High Arctic. Journal of geophysical research. Machine learning and computation, 2025, 2, .	1.5	1
9	DARTS: Multi-year database of AI-detected retrogressive thaw slumps in the circum-arctic permafrost region. Scientific Data, 2025, 12, .	3.8	12
10	Review article: Retrogressive thaw slump theory and terminology. , 2024, , .		1
11	Comment on egusphere-2023-2914. , 2024, , .		0
12	Comment on egusphere-2023-2914. , 2024, , .		0
13	A Third of Organic Carbon Is Mineral Bound in Permafrost Sediments Exposed by the World's Largest Thaw Slump, Batagay, Siberia. Permafrost and Periglacial Processes, 2024, 35, 278-293.	2.4	4
14	Reply on RC1. , 2024, , .		0
15	Reply on RC2. , 2024, , .		0
16	Atmosphere circulation patterns synchronize pan-Arctic glacier melt and permafrost thaw. Communications Earth & Environment, 2024, 5, .	4.9	11
17	Upland Yedoma taliks are an unpredicted source of atmospheric methane. Nature Communications, 2024, 15, .	10.8	22
18	Multisource Synthesized Inventory of CRitical Infrastructure and HUman-Impacted Areas in AlaSka (SIRIUS). Earth System Science Data, 2024, 16, 3719-3753.	6.9	2

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19	PixelDINO: Semi-Supervised Semantic Segmentation for Detecting Permafrost Disturbances in the Arctic. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62, 1-12.	5.0	11
20	Topography Controls Variability in Circumpolar Permafrost Thaw Pond Expansion. Journal of Geophysical Research F: Earth Surface, 2024, 129, .	1.9	8
21	Methane flux from Beringian coastal wetlands for the past 20,000 years. Quaternary Science Reviews, 2024, 344, 108976.	2.1	2
22	Methane emissions from proglacial lakes: A synthesis study directed toward Lake Agassiz. Quaternary Science Reviews, 2024, 344, 108975.	2.1	4
23	Review article: Retrogressive thaw slump characteristics and terminology. Cryosphere, 2024, 18, 4787-4810.	2.2	58
24	Pan-Arctic Assessment of Coastal Settlements and Infrastructure Vulnerable to Coastal Erosion, Sea-Level Rise, and Permafrost Thaw. Earth's Future, 2024, 12, .	4.8	26
25	An Update on Eukaryotic Viruses Revived from Ancient Permafrost. Viruses, 2023, 15, 564.	2.2	56
26	Microbial methane cycling in sediments of Arctic thermokarst lagoons. Global Change Biology, 2023, 29, 2714-2731.	7.4	31
27	Thawing permafrost poses environmental threat to thousands of sites with legacy industrial contamination. Nature Communications, 2023, 14, .	10.8	85
28	Subsea permafrost organic carbon stocks are large and of dominantly low reactivity. Scientific Reports, 2023, 13, .	2.7	23
29	Integrating local environmental observations and remote sensing to better understand the life cycle of a thermokarst lake in Arctic Alaska. Arctic, Antarctic, and Alpine Research, 2023, 55, .	1.0	13
30	Past permafrost dynamics can inform future permafrost carbon-climate feedbacks. Communications Earth & Environment, 2023, 4, .	4.9	39
31	Panarctic lakes exerted a small positive feedback on early Holocene warming due to deglacial release of methane. Communications Earth & Environment, 2023, 4, .	4.9	9
32	Carbon dioxide release from retrogressive thaw slumps in Siberia. Environmental Research Letters, 2023, 18, 104053.	2.8	12
33	Remote sensing annual dynamics of rapid permafrost thaw disturbances with LandTrendr. Remote Sensing of Environment, 2022, 268, 112752.	8.2	130
34	Lake and drained lake basin systems in lowland permafrost regions. Nature Reviews Earth & Environment, 2022, 3, 85-98.	42.0	114
35	Origin and Pathways of Dissolved Organic Carbon in a Small Catchment in the Lena River Delta. Frontiers in Earth Science, 2022, 9, .	1.2	8
36	Heavy and Light Mineral Association of Late Quaternary Permafrost Deposits in Northeastern Siberia. Frontiers in Earth Science, 2022, 10, .	1.2	6

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37	Metagenomic survey of the microbiome of ancient Siberian permafrost and modern Kamchatkan cryosols. MicroLife, 2022, 3, .	2.0	29
38	Organic matter characteristics of a rapidly eroding permafrost cliff in NE Siberia (Lena Delta, Laptev Sea region). Biogeosciences, 2022, 19, 2079-2094.	2.2	12
39	Expanding beaver pond distribution in Arctic Alaska, 1949 to 2019. Scientific Reports, 2022, 12, .	2.7	29
40	High-resolution bathymetry models for the Lena Delta and Kolyma Gulf coastal zones. Earth System Science Data, 2022, 14, 2279-2301.	6.9	6
41	Thermokarst processes increase the supply of stabilizing surfaces and elements (Fe, Mn, Al, and Ca) for mineral–organic carbon interactions. Permafrost and Periglacial Processes, 2022, 33, 452-469.	2.4	20
42	Large herbivores on permafrost— a pilot study of grazing impacts on permafrost soil carbon storage in northeastern Siberia. Frontiers in Environmental Science, 2022, 10, .	2.3	13
43	Molecular biomarkers in Batagay megaslump permafrost deposits reveal clear differences in organic matter preservation between glacial and interglacial periods. Cryosphere, 2022, 16, 3601-3617.	2.2	13
44	Brief communication: Unravelling the composition and microstructure of a permafrost core using X-ray computed tomography. Cryosphere, 2022, 16, 3507-3515.	2.2	13
45	A globally relevant stock of soil nitrogen in the Yedoma permafrost domain. Nature Communications, 2022, 13, .	10.8	50
46	Exploring the capabilities of electrical resistivity tomography to study subsea permafrost. Cryosphere, 2022, 16, 4423-4445.	2.2	9
47	The Potential of UAV Imagery for the Detection of Rapid Permafrost Degradation: Assessing the Impacts on Critical Arctic Infrastructure. Remote Sensing, 2022, 14, 6107.	2.7	15
48	Thermo-erosional valleys in Siberian ice-rich permafrost. Permafrost and Periglacial Processes, 2021, 32, 59-75.	2.4	32
49	Decadal-scale hotspot methane ebullition within lakes following abrupt permafrost thaw. Environmental Research Letters, 2021, 16, 035010.	2.8	43
50	Spatiotemporal patterns of northern lake formation since the Last Glacial Maximum. Quaternary Science Reviews, 2021, 253, 106773.	2.1	46
51	Greenhouse gas production and lipid biomarker distribution in Yedoma and Alas thermokarst lake sediments in Eastern Siberia. Global Change Biology, 2021, 27, 2822-2839.	7.4	38
52	Methane pathways in winter ice of a thermokarst lake–lagoon–coastal water transect in north Siberia. Cryosphere, 2021, 15, 1607-1625.	2.2	10
53	The role of wetland expansion and successional processes in methane emissions from northern wetlands during the Holocene. Quaternary Science Reviews, 2021, 257, 106864.	2.1	32
54	Remote Sensing-Based Statistical Approach for Defining Drained Lake Basins in a Continuous Permafrost Region, North Slope of Alaska. Remote Sensing, 2021, 13, 2539.	2.7	16

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55	First pan-Arctic assessment of dissolved organic carbon in lakes of the permafrost region. Biogeosciences, 2021, 18, 3917-3936.	2.2	23
56	Onshore Thermokarst Primes Subsea Permafrost Degradation. Geophysical Research Letters, 2021, 48, .	2.9	19
57	Iron Redistribution Upon Thermokarst Processes in the Yedoma Domain. Frontiers in Earth Science, 2021, 9, .	1.2	20
58	Thermokarst Lagoons: A Core-Based Assessment of Depositional Characteristics and an Estimate of Carbon Pools on the Bykovsky Peninsula. Frontiers in Earth Science, 2021, 9, .	1.2	21
59	A Quantitative Graph-Based Approach to Monitoring Ice-Wedge Trough Dynamics in Polygonal Permafrost Landscapes. Remote Sensing, 2021, 13, 3098.	2.7	25
60	Geochemistry and Weathering Indices of Yedoma and Alas Deposits beneath Thermokarst Lakes in Central Yakutia. Frontiers in Earth Science, 2021, 9, .	1.2	13
61	Mineral Element Stocks in the Yedoma Domain: A Novel Method Applied to Ice-Rich Permafrost Regions. Frontiers in Earth Science, 2021, 9, .	1.2	19
62	Geomorphological and Climatic Drivers of Thermokarst Lake Area Increase Trend (1999–2018) in the Kolyma Lowland Yedoma Region, North-Eastern Siberia. Remote Sensing, 2021, 13, 178.	2.7	64
63	Landsat-based lake distribution and changes in western Alaska permafrost regions between the 1970s and 2010s. Environmental Research Letters, 2021, 16, 025006.	2.8	30
64	Developing and Testing a Deep Learning Approach for Mapping Retrogressive Thaw Slumps. Remote Sensing, 2021, 13, 4294.	2.7	68
65	Circum-Arctic Map of the Yedoma Permafrost Domain. Frontiers in Earth Science, 2021, 9, .	1.2	113
66	Expanding infrastructure and growing anthropogenic impacts along Arctic coasts. Environmental Research Letters, 2021, 16, 115013.	2.8	61
67	The Boreal–Arctic Wetland and Lake Dataset (BAWLD). Earth System Science Data, 2021, 13, 5127-5149.	6.9	93
68	Degrading permafrost river catchments and their impact on Arctic Ocean nearshore processes. Ambio, 2021, 51, 439-455.	3.1	57
69	Mercury in Sediment Core Samples From Deep Siberian Ice-Rich Permafrost. Frontiers in Earth Science, 2021, 9, .	1.2	13
70	Thawing Yedoma permafrost is a neglected nitrous oxide source. Nature Communications, 2021, 12, .	10.8	64
71	A synthesis of methane dynamics in thermokarst lake environments. Earth-Science Reviews, 2020, 210, 103365.	7.0	59
72	Thermokarst Lake to Lagoon Transitions in Eastern Siberia: Do Submerged Taliks Refreeze?. Journal of Geophysical Research F: Earth Surface, 2020, 125, .	1.9	25

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73	n-Alkane Characteristics of Thawed Permafrost Deposits Below a Thermokarst Lake on Bykovsky Peninsula, Northeastern Siberia. Frontiers in Environmental Science, 2020, 8, .	2.3	19
74	Rapid Fluvio-Thermal Erosion of a Yedoma Permafrost Cliff in the Lena River Delta. Frontiers in Earth Science, 2020, 8, .	1.2	57
75	Mosaicking Landsat and Sentinel-2 Data to Enhance LandTrendr Time Series Analysis in Northern High Latitude Permafrost Regions. Remote Sensing, 2020, 12, 2471.	2.7	23
76	Remote sensing northern lake methane ebullition. Nature Climate Change, 2020, 10, 511-517.	12.0	65
77	Increase in beaver dams controls surface water and thermokarst dynamics in an Arctic tundra region, Baldwin Peninsula, northwestern Alaska. Environmental Research Letters, 2020, 15, 075005.	2.8	35
78	Identifying historical and future potential lake drainage events on the western Arctic coastal plain of Alaska. Permafrost and Periglacial Processes, 2020, 31, 110-127.	2.4	41
79	Carbon release through abrupt permafrost thaw. Nature Geoscience, 2020, 13, 138-143.	10.1	763
80	High potential for loss of permafrost landforms in a changing climate. Environmental Research Letters, 2020, 15, 104065.	2.8	49
81	Organic carbon characteristics in ice-rich permafrost in alas and Yedoma deposits, central Yakutia, Siberia. Biogeosciences, 2020, 17, 3797-3814.	2.2	23
82	The genesis of Yedoma Ice Complex permafrost – grain-size endmember modeling analysis from Siberia and Alaska. E&G Quaternary Science Journal, 2020, 69, 33-53.	0.9	35
83	The catastrophic thermokarst lake drainage events of 2018 in northwestern Alaska: fast-forward into the future. Cryosphere, 2020, 14, 4279-4297.	2.2	87
84	Ice roads through lake-rich Arctic watersheds: Integrating climate uncertainty and freshwater habitat responses into adaptive management. Arctic, Antarctic, and Alpine Research, 2019, 51, 9-23.	1.0	31
85	Century-scale time since permafrost thaw affects temperature sensitivity of net methane production in thermokarst-lake and talik sediments. Science of the Total Environment, 2019, 691, 124-134.	5.6	24
86	Comparing Spectral Characteristics of Landsat-8 and Sentinel-2 Same-Day Data for Arctic-Boreal Regions. Remote Sensing, 2019, 11, 1730.	2.7	35
87	An Object-Based Classification Method to Detect Methane Ebullition Bubbles in Early Winter Lake Ice. Remote Sensing, 2019, 11, 822.	2.7	11
88	Organic Carbon and Nitrogen Stocks Along a Thermokarst Lake Sequence in Arctic Alaska. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1230-1247.	2.0	31
89	Heat and Salt Flow in Subsea Permafrost Modeled with CryoGRID2. Journal of Geophysical Research F: Earth Surface, 2019, 124, 920-937.	1.9	41
90	Size Distributions of Arctic Waterbodies Reveal Consistent Relations in Their Statistical Moments in Space and Time. Frontiers in Earth Science, 2019, 7, .	1.2	36

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91	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.	5.2	141
92	Permafrost is warming at a global scale. Nature Communications, 2019, 10, .	10.8	1,638
93	Tundra landform and vegetation productivity trend maps for the Arctic Coastal Plain of northern Alaska. Scientific Data, 2018, 5, .	3.8	35
94	Variability in Rates of Coastal Change Along the Yukon Coast, 1951 to 2015. Journal of Geophysical Research F: Earth Surface, 2018, 123, 779-800.	1.9	75
95	Reduced arctic tundra productivity linked with landform and climate change interactions. Scientific Reports, 2018, 8, .	2.7	128
96	Alaskan marine transgressions record out-of-phase Arctic Ocean glaciation during the last interglacial. Geology, 2018, 46, 783-786.	3.0	19
97	A decade of remotely sensed observations highlight complex processes linked to coastal permafrost bluff erosion in the Arctic. Environmental Research Letters, 2018, 13, 115001.	2.8	109
98	Organic matter characteristics in yedoma and thermokarst deposits on Baldwin Peninsula, west Alaska. Biogeosciences, 2018, 15, 6033-6048.	2.2	39
99	Remote sensing quantifies widespread abundance of permafrost region disturbances across the Arctic and Subarctic. Nature Communications, 2018, 9, .	10.8	278
100	Transient Electromagnetic Surveys for the Determination of Talik Depth and Geometry Beneath Thermokarst Lakes. Journal of Geophysical Research: Solid Earth, 2018, 123, 9310-9323.	2.5	25
101	Sedimentary and geochemical characteristics of two small permafrost-dominated Arctic river deltas in northern Alaska. Arktos, 2018, 4, 1-18.	4.0	5
102	Sediment characteristics of a thermokarst lagoon in the northeastern Siberian Arctic (Ivashkina Lagoon, Bykovsky Peninsula). Arktos, 2018, 4, 1-16.	4.0	18
103	Tundra be dammed: Beaver colonization of the Arctic. Global Change Biology, 2018, 24, 4478-4488.	7.4	107
104	Sub-seasonal thaw slump mass wasting is not consistently energy limited at the landscape scale. Cryosphere, 2018, 12, 549-564.	2.2	50
105	Carbon and nitrogen pools in thermokarst-affected permafrost landscapes in Arctic Siberia. Biogeosciences, 2018, 15, 953-971.	2.2	46
106	Sentinel-1 InSAR Measurements of Elevation Changes over Yedoma Uplands on Sobo-Sise Island, Lena Delta. Remote Sensing, 2018, 10, 1152.	2.7	40
107	Monitoring Inter- and Intra-Seasonal Dynamics of Rapidly Degrading Ice-Rich Permafrost Riverbanks in the Lena Delta with TerraSAR-X Time Series. Remote Sensing, 2018, 10, 51.	2.7	32
108	21st-century modeled permafrost carbon emissions accelerated by abrupt thaw beneath lakes. Nature Communications, 2018, 9, .	10.8	246

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109	Remote Sensing Leads to Better Understanding of Polar Regions. Eos, 2018, 99, .	0.0	3
110	Coastal erosion and mass wasting along the Canadian Beaufort Sea based on annual airborne LiDAR elevation data. Geomorphology, 2017, 293, 331-346.	2.2	85
111	Diatom records and tephra mineralogy in pingo deposits of Seward Peninsula, Alaska. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 479, 1-15.	1.9	18
112	Deep Yedoma permafrost: A synthesis of depositional characteristics and carbon vulnerability. Earth-Science Reviews, 2017, 172, 75-86.	7.0	323
113	Landsat-Based Trend Analysis of Lake Dynamics across Northern Permafrost Regions. Remote Sensing, 2017, 9, 640.	2.7	145
114	PeRL: a circum-Arctic Permafrost Region Pond and Lake database. Earth System Science Data, 2017, 9, 317-348.	6.9	85
115	Detection and spatiotemporal analysis of methane ebullition on thermokarst lake ice using high-resolution optical aerial imagery. Biogeosciences, 2016, 13, 27-44.	2.2	30
116	Presence of rapidly degrading permafrost plateaus in south-central Alaska. Cryosphere, 2016, 10, 2673-2692.	2.2	47
117	Coastal dynamics and submarine permafrost in shallow water of the central Laptev Sea, East Siberia. Cryosphere, 2016, 10, 1449-1462.	2.2	45
118	Evidence of multiple thermokarst lake generations from an 11 800-year-old permafrost core on the northern Seward Peninsula, Alaska. Boreas, 2016, 45, 584-603.	1.5	29
119	Threshold sensitivity of shallow Arctic lakes and sublake permafrost to changing winter climate. Geophysical Research Letters, 2016, 43, 6358-6365.	2.9	79
120	Simulating soil organic carbon in yedoma deposits during the Last Glacial Maximum in a land surface model. Geophysical Research Letters, 2016, 43, 5133-5142.	2.9	25
121	Rapid degradation of permafrost underneath waterbodies in tundra landscapes—Toward a representation of thermokarst in land surface models. Journal of Geophysical Research F: Earth Surface, 2016, 121, 2446-2470.	1.9	71
122	Detection of landscape dynamics in the Arctic Lena Delta with temporally dense Landsat time-series stacks. Remote Sensing of Environment, 2016, 181, 27-41.	8.2	102
123	Spatial distribution of thermokarst terrain in Arctic Alaska. Geomorphology, 2016, 273, 116-133.	2.2	93
124	Remote Sensing of Landscape Change in Permafrost Regions. Permafrost and Periglacial Processes, 2016, 27, 324-338.	2.4	113
125	Mid-Wisconsin to Holocene Permafrost and Landscape Dynamics based on a Drained Lake Basin Core from the Northern Seward Peninsula, Northwest Alaska. Permafrost and Periglacial Processes, 2016, 27, 56-75.	2.4	29
126	Methane emissions proportional to permafrost carbon thawed in Arctic lakes since the 1950s. Nature Geoscience, 2016, 9, 679-682.	10.1	210

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127	Circumpolar distribution and carbon storage of thermokarst landscapes. Nature Communications, 2016, 7, .	10.8	514
128	Impacts of shore expansion and catchment characteristics on lacustrine thermokarst records in permafrost lowlands, Alaska Arctic Coastal Plain. Arktos, 2016, 2, .	4.0	20
129	The evolution of a thermokarst-lake landscape: Late Quaternary permafrost degradation and stabilization in interior Alaska. Sedimentary Geology, 2016, 340, 3-14.	2.2	44
130	Facies analysis of yedoma thermokarst lakes on the northern Seward Peninsula, Alaska. Sedimentary Geology, 2016, 340, 25-37.	2.2	45
131	Pan-Arctic ice-wedge degradation in warming permafrost and its influence on tundra hydrology. Nature Geoscience, 2016, 9, 312-318.	10.1	685
132	Recent Arctic tundra fire initiates widespread thermokarst development. Scientific Reports, 2015, 5, .	2.7	186
133	Observation-based modelling of permafrost carbon fluxes with accounting for deep carbon deposits and thermokarst activity. Biogeosciences, 2015, 12, 3469-3488.	2.2	135
134	Thermokarst lake methanogenesis along a complete talik profile. Biogeosciences, 2015, 12, 4317-4331.	2.2	59
135	Distribution and biophysical processes of beaded streams in Arctic permafrost landscapes. Biogeosciences, 2015, 12, 29-47.	2.2	28
136	Active Layer Stratigraphy and Organic Layer Thickness at a Thermokarst Site in Arctic Alaska Identified Using Ground Penetrating Radar. Arctic, Antarctic, and Alpine Research, 2015, 47, 195-202.	1.0	25
137	Climate change and the permafrost carbon feedback. Nature, 2015, 520, 171-179.	30.7	3,343
138	A simplified, data-constrained approach to estimate the permafrost carbon–climate feedback. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140423.	1.6	177
139	Polygonal tundra geomorphological change in response to warming alters future CO2 and CH4 flux on the Barrow Peninsula. Global Change Biology, 2015, 21, 1634-1651.	7.4	124
140	Estimated stocks of circumpolar permafrost carbon with quantified uncertainty ranges and identified data gaps. Biogeosciences, 2014, 11, 6573-6593.	2.2	1,368
141	Seasonal thaw settlement at drained thermokarst lake basins, Arctic Alaska. Cryosphere, 2014, 8, 815-826.	2.2	56
142	A shift of thermokarst lakes from carbon sources to sinks during the Holocene epoch. Nature, 2014, 511, 452-456.	30.7	286
143	Quantifying Wedge-Ice Volumes in Yedoma and Thermokarst Basin Deposits. Permafrost and Periglacial Processes, 2014, 25, 151-161.	2.4	84
144	Expert assessment of vulnerability of permafrost carbon to climate change. Climatic Change, 2013, 119, 359-374.	2.5	284

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145	Detecting unfrozen sediments below thermokarst lakes with surface nuclear magnetic resonance. Geophysical Research Letters, 2013, 40, 535-540.	2.9	52
146	Characterisation of the Permafrost Carbon Pool. Permafrost and Periglacial Processes, 2013, 24, 146-155.	2.4	51
147	Classification of freshwater ice conditions on the Alaskan Arctic Coastal Plain using ground penetrating radar and TerraSAR-X satellite data. International Journal of Remote Sensing, 2013, 34, 8267-8279.	1.7	29
148	Quantification of upland thermokarst features with high resolution remote sensing. Environmental Research Letters, 2013, 8, 035016.	2.8	38
149	The deep permafrost carbon pool of the Yedoma region in Siberia and Alaska. Geophysical Research Letters, 2013, 40, 6165-6170.	2.9	215
150	Characterization of L-band synthetic aperture radar (SAR) backscatter from floating and grounded thermokarst lake ice in Arctic Alaska. Cryosphere, 2013, 7, 1741-1752.	2.2	31
151	Quantifying landscape change in an arctic coastal lowland using repeat airborne LiDAR. Environmental Research Letters, 2013, 8, 045025.	2.8	63
152	Synthetic aperture radar (SAR) backscatter response from methane ebullition bubbles trapped by thermokarst lake ice. Canadian Journal of Remote Sensing, 2013, 38, 667-682.	1.5	39
153	Recent lake ice-out phenology within and among lake districts of Alaska, U.S.A. Limnology and Oceanography, 2013, 58, 2013-2028.	2.4	70
154	Identification of unrecognized tundra fire events on the north slope of Alaska. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1334-1344.	2.0	73
155	Impacts of disturbance on the terrestrial carbon budget of North America. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 303-316.	2.0	63
156	Short- and long-term thermo-erosion of ice-rich permafrost coasts in the Laptev Sea region. Biogeosciences, 2013, 10, 4297-4318.	2.2	200
157	Organic carbon and total nitrogen stocks in soils of the Lena River Delta. Biogeosciences, 2013, 10, 3507-3524.	2.2	94
158	A new data set for estimating organic carbon storage to 3 m depth in soils of the northern circumpolar permafrost region. Earth System Science Data, 2013, 5, 393-402.	6.9	184
159	Ground penetrating radar detection of subsnow slush on ice-covered lakes in interior Alaska. Cryosphere, 2012, 6, 1435-1443.	2.2	19
160	Field information links permafrost carbon to physical vulnerabilities of thawing. Geophysical Research Letters, 2012, 39, .	2.9	303
161	Geologic methane seeps along boundaries of Arctic permafrost thaw and melting glaciers. Nature Geoscience, 2012, 5, 419-426.	10.1	260
162	Late Quaternary environmental and landscape dynamics revealed by a pingo sequence on the northern Seward Peninsula, Alaska. Quaternary Science Reviews, 2012, 39, 26-44.	2.1	39

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163	Assessment of pingo distribution and morphometry using an IfSAR derived digital surface model, western Arctic Coastal Plain, Northern Alaska. Geomorphology, 2012, 138, 1-14.	2.2	43
164	Drainage Network Structure and Hydrologic Behavior of Three Lake-Rich Watersheds on the Arctic Coastal Plain, Alaska. Arctic, Antarctic, and Alpine Research, 2012, 44, 385-398.	1.0	45
165	Peat accumulation in drained thermokarst lake basins in continuous, ice-rich permafrost, northern Seward Peninsula, Alaska. Journal of Geophysical Research, 2012, 117, .	3.5	104
166	Using the deuterium isotope composition of permafrost meltwater to constrain thermokarst lake contributions to atmospheric CH4 during the last deglaciation. Journal of Geophysical Research, 2012, 117, .	3.5	70
167	Characterizing Post-Drainage Succession in Thermokarst Lake Basins on the Seward Peninsula, Alaska with TerraSAR-X Backscatter and Landsat-based NDVI Data. Remote Sensing, 2012, 4, 3741-3765.	2.7	37
168	Rapid movement of frozen debris-lobes: implications for permafrost degradation and slope instability in the south-central Brooks Range, Alaska. Natural Hazards and Earth System Sciences, 2012, 12, 1521-1537.	2.7	52
169	Vulnerability of high-latitude soil organic carbon in North America to disturbance. Journal of Geophysical Research, 2011, 116, .	3.5	391
170	Modern thermokarst lake dynamics in the continuous permafrost zone, northern Seward Peninsula, Alaska. Journal of Geophysical Research, 2011, 116, .	3.5	292
171	Late Quaternary paleoenvironmental records from the western Lena Delta, Arctic Siberia. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 299, 175-196.	1.9	58
172	Sedimentary characteristics and origin of the Late Pleistocene Ice Complex on north-east Siberian Arctic coastal lowlands and islands – A review. Quaternary International, 2011, 241, 3-25.	1.2	202
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