Degrading permafrost puts Arctic infrastructure at risk

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Citation Report

#	Article	IF	CITATIONS
1	Comparing Spectral Characteristics of Landsat-8 and Sentinel-2 Same-Day Data for Arctic-Boreal Regions. Remote Sensing, 2019, 11, 1730.	4.0	19
2	Remote Sensing of Environmental Changes in Cold Regions: Methods, Achievements and Challenges. Remote Sensing, 2019, 11, 1952.	4.0	34
3	Permafrost Degradation within Eastern Chukotka CALM Sites in the 21st Century Based on CMIP5 Climate Models. Geosciences (Switzerland), 2019, 9, 232.	2.2	14
4	Assessing landscape potential for human sustainability and â€~attractiveness' across Asian Russia in a warmer 21st century. Environmental Research Letters, 2019, 14, 065004.	5.2	14
5	New insights into the environmental factors controlling the ground thermal regime across the Northern Hemisphere: a comparison between permafrost and non-permafrost areas. Cryosphere, 2019, 13, 693-707.	3.9	34
6	Climate policy implications of nonlinear decline of Arctic land permafrost and other cryosphere elements. Nature Communications, 2019, 10, 1900.	12.8	108
7	Northern Hemisphere permafrost map based on TTOP modelling for 2000–2016 at 1†km2 scale. Earth-Science Reviews, 2019, 193, 299-316.	9.1	462
8	Urban Geocryology: Mapping Urban–Rural Contrasts in Active-Layer Thickness, Barrow Peninsula, Northern Alaska. Annals of the American Association of Geographers, 2019, 109, 1394-1414.	2.2	6
9	Recent evolution of damage to infrastructure on permafrost in the French Alps. Regional Environmental Change, 2019, 19, 1281-1293.	2.9	42
10	Thermokarst Lakes, Ecosystems with Intense Microbial Processes of the Methane Cycle. Microbiology, 2019, 88, 649-661.	1.2	10
11	Assessment of the cost of climate change impacts on critical infrastructure in the circumpolar Arctic. Polar Geography, 2019, 42, 267-286.	1.9	50
12	Transient Modelling of Permafrost Distribution in Iceland. Frontiers in Earth Science, 2019, 7, .	1.8	20
13	Permafrost is warming at a global scale. Nature Communications, 2019, 10, 264.	12.8	1,039
14	Permafrost-related hiatuses in stalagmites: Evaluating the potential for reconstruction of carbon cycle dynamics. Quaternary Geochronology, 2020, 56, 101037.	1.4	7
15	Long-term thermal and settlement characteristics of air convection embankments with and without adjacent surface water ponding in permafrost regions. Engineering Geology, 2020, 266, 105464.	6.3	25
16	Impact of heat advection on the thermal regime of roads built on permafrost. Hydrological Processes, 2020, 34, 1647-1664.	2.6	34
17	Engineering risk analysis in cold regions: State of the art and perspectives. Cold Regions Science and Technology, 2020, 171, 102963.	3.5	44
18	Assessment for Thermal Conductivity of Frozen Soil Based on Nonlinear Regression and Support Vector Regression Methods. Advances in Civil Engineering, 2020, 2020, 1-12.	0.7	5

#	ARTICLE	IF	CITATIONS
19	Digital Rovaniemi: contemporary and future arctic tourist experiences. Journal of Tourism Futures, 2020, 6, 6-23.	3.9	13
20	Spatial and Seasonal Variations of C, Nutrient, and Metal Concentration in Thermokarst Lakes of Western Siberia Across a Permafrost Gradient. Water (Switzerland), 2020, 12, 1830.	2.7	22
21	Permafrost dynamics and the risk of anthrax transmission: a modelling study. Scientific Reports, 2020, 10, 16460.	3.3	27
22	Towards Circumpolar Mapping of Arctic Settlements and Infrastructure Based on Sentinel-1 and Sentinel-2. Remote Sensing, 2020, 12, 2368.	4.0	27
23	Mosaicking Landsat and Sentinel-2 Data to Enhance LandTrendr Time Series Analysis in Northern High Latitude Permafrost Regions. Remote Sensing, 2020, 12, 2471.	4.0	12
24	A pixel level evaluation of five multitemporal global gridded population datasets: a case study in Sweden, 1990–2015. Population and Environment, 2020, 42, 255-277.	3.0	30
25	A Long-Term, 1-km Resolution Daily Meteorological Dataset for Modeling and Mapping Permafrost in Canada. Atmosphere, 2020, $11,1363$.	2.3	2
26	Assessment of Spatio-Temporal Landscape Changes from VHR Images in Three Different Permafrost Areas in the Western Russian Arctic. Remote Sensing, 2020, 12, 3999.	4.0	11
27	Technical and economic challenges for Arctic Coastal settlements due to melting of ice and permafrost in the Arctic. IOP Conference Series: Earth and Environmental Science, 2020, 612, 012049.	0.3	4
28	The perception of permafrost thaw in the Sakha Republic (Russia): Narratives, culture and risk in the face of climate change. Polar Science, 2020, 26, 100589.	1.2	20
29	Thawing permafrost and methane emission in Siberia: Synthesis of observations, reanalysis, and predictive modeling. Ambio, 2021, 50, 2050-2059.	5.5	18
30	Understanding the synergies of deep learning and data fusion of multispectral and panchromatic high resolution commercial satellite imagery for automated ice-wedge polygon detection. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 170, 174-191.	11.1	32
31	Hot trends and impact in permafrost science. Permafrost and Periglacial Processes, 2020, 31, 461-471.	3.4	14
32	Polar tourism and environment change: opportunity, impact and adaptation. Polar Science, 2020, 25, 100544.	1.2	18
33	35 Years of Vegetation and Lake Dynamics in the Pechora Catchment, Russian European Arctic. Remote Sensing, 2020, 12, 1863.	4.0	6
34	Climate of the High Arctic., 2020,, 457-464.		1
35	Abruptly and irreversibly changing Arctic freshwaters urgently require standardized monitoring. Journal of Applied Ecology, 2020, 57, 1192-1198.	4.0	50
36	Soil thermal regime alteration under experimental warming in permafrost regions of the central Tibetan Plateau. Geoderma, 2020, 372, 114397.	5.1	16

#	Article	IF	Citations
37	Potential Use of Time-Lapse Surface Seismics for Monitoring Thawing of the Terrestrial Arctic. Applied Sciences (Switzerland), 2020, 10, 1875.	2.5	2
38	Soil and water threats in a changing environment. Environmental Research, 2020, 186, 109501.	7.5	48
39	A scientometric review of permafrost research based on textual analysis (1948–2020). Scientometrics, 2021, 126, 417-436.	3.0	10
40	Polycyclic aromatic compounds (PACs) in the Canadian environment: Sources and emissions. Environmental Pollution, 2021, 269, 116008.	7. 5	41
41	Detecting and Mapping Gas Emission Craters on the Yamal and Gydan Peninsulas, Western Siberia. Geosciences (Switzerland), 2021, 11, 21.	2.2	8
42	Permafrost degradation. , 2021, , 297-322.		4
43	Population living on permafrost in the Arctic. Population and Environment, 2021, 43, 22-38.	3.0	40
44	CubeSat Technology and Periglacial Landscape Analysis. , 2021, , .		1
45	Impacts of Permafrost Degradation. , 2021, , 451-479.		0
46	Assessing Physical Risks from Climate Change: Do Companies and Financial Organizations Have Sufficient Guidance?., 0,,.		9
47	Simulated response of the active layer thickness of permafrost to climate change. Atmospheric and Oceanic Science Letters, 2021, 14, 100007.	1.3	1
48	After the Permafrost: A Provisional Outline. , 2021, , 55-66.		0
49	Climate-induced managed retreat in the U.S.: A review of current research. Climate Risk Management, 2021, 33, 100337.	3.2	10
50	Arctic biodiversity amidst looming climate apocalypse: current status and way forward. , 2021, , 213-255.		0
51	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
52	Mining noise data for monitoring Arctic permafrost by using GNSS interferometric reflectometry. Polar Science, 2021, 29, 100649.	1.2	5
53	Degrading permafrost and its impacts. Advances in Climate Change Research, 2021, 12, 1-5.	5.1	34
54	Significant shallow–depth soil warming over Russia during the past 40Âyears. Global and Planetary Change, 2021, 197, 103394.	3.5	13

#	Article	IF	Citations
55	Invited perspective: What lies beneath a changing Arctic?. Cryosphere, 2021, 15, 479-484.	3.9	32
56	Transport Infrastructure of the Russian Arctic: Specifics Features and Development Prospects. Studies on Russian Economic Development, 2021, 32, 214-220.	1.0	8
57	Polycyclic aromatic compounds (PACs) in the Canadian environment: Links to global change. Environmental Pollution, 2021, 273, 116425.	7.5	12
58	Trends in Satellite Earth Observation for Permafrost Related Analyses—A Review. Remote Sensing, 2021, 13, 1217.	4.0	26
59	Geophysical Monitoring Shows that Spatial Heterogeneity in Thermohydrological Dynamics Reshapes a Transitional Permafrost System. Geophysical Research Letters, 2021, 48, e2020GL091149.	4.0	22
60	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
61	Assessing the simulated soil hydrothermal regime of the active layer from the Noah-MP land surface model (v1.1) in the permafrost regions of the Qinghai–Tibet Plateau. Geoscientific Model Development, 2021, 14, 1753-1771.	3.6	15
62	Observed Decrease in Soil and Atmosphere Temperature Coupling in Recent Decades Over Northern Eurasia. Geophysical Research Letters, 2021, 48, e2021GL092500.	4.0	1
63	What conditions favor the influence of seasonally frozen ground on hydrological partitioning? A systematic review. Environmental Research Letters, 2021, 16, 043008.	5.2	21
64	Mapping the Main Characteristics of Permafrost on the Basis of a Permafrost-Landscape Map of Yakutia Using GIS. Land, 2021, 10, 462.	2.9	15
65	Simulating potential impacts of climate changes on distribution pattern and carbon storage function of ⟨scp⟩high″atitude⟨/scp⟩ wetland plant communities in the Xing'anling Mountains, China. Land Degradation and Development, 2021, 32, 2704-2714.	3.9	13
66	Increasing costs to Chinese railway infrastructure by extreme precipitation in a warmer world. Transportation Research, Part D: Transport and Environment, 2021, 93, 102797.	6.8	14
67	Living conditions and mental wellness in a changing climate and environment: focus on community voices and perceived environmental and adaptation factors in Greenland. Heliyon, 2021, 7, e06862.	3.2	6
68	Predicting changes in the mechanical properties of frozen saline soils. European Journal of Environmental and Civil Engineering, 2022, 26, 5716-5728.	2.1	9
70	Urban heat islands in the Arctic cities: an updated compilation of in situ and remote-sensing estimations. Advances in Science and Research, 0, 18, 51-57.	1.0	6
71	Mapping the Vulnerability of Arctic Wetlands to Global Warming. Earth's Future, 2021, 9, e2020EF001858.	6.3	19
72	Consequences of permafrost degradation for Arctic infrastructure â€" bridging the model gap between regional and engineering scales. Cryosphere, 2021, 15, 2451-2471.	3.9	42
73	Characteristics of heat fluxes of an oil pipeline armed with thermosyphons in permafrost regions. Applied Thermal Engineering, 2021, 190, 116694.	6.0	29

#	Article	IF	CITATIONS
74	Snow Patches and Their Influence on Coastal Erosion at Baydaratskaya Bay Coast, Kara Sea, Russian Arctic. Water (Switzerland), 2021, 13, 1432.	2.7	1
75	Identifying increasing risks of hazards for northern land-users caused by permafrost thaw: integrating scientific and community-based research approaches. Environmental Research Letters, 2021, 16, 064047.	5.2	7
76	Comparison of Surface Subsidence Measured by Airborne and Satellite InSAR Over Permafrost Areas Near Yellowknife Canada. Earth and Space Science, 2021, 8, e2020EA001631.	2.6	5
77	Geofysiske metoder kan fortelle oss hvordan de frosne landområdene i Arktis tiner. Naturen, 2021, 145, 148-159.	0.0	0
78	Scientific Cooperation: Supporting Circumpolar Permafrost Monitoring and Data Sharing. Land, 2021, 10, 590.	2.9	5
79	Projecting Permafrost Thaw of Subâ€Arctic Tundra With a Thermodynamic Model Calibrated to Site Measurements. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006218.	3.0	11
80	Environmental Controls of InSARâ€Based Periglacial Ground Dynamics in a Subâ€Arctic Landscape. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006175.	2.8	12
81	Risk assessment of potential thaw settlement hazard in the permafrost regions of Qinghai-Tibet Plateau. Science of the Total Environment, 2021, 776, 145855.	8.0	34
82	Topographic and Groundâ€ice Controls on Shallow Landsliding in Thawing Arctic Permafrost. Geophysical Research Letters, 2021, 48, e2020GL092264.	4.0	10
83	Seasonal InSAR Displacements Documenting the Active Layer Freeze and Thaw Progression in Central-Western Spitsbergen, Svalbard. Remote Sensing, 2021, 13, 2977.	4.0	11
84	Examining the Viability of the World's Busiest Winter Road to Climate Change Using a Process-Based Lake Model. Bulletin of the American Meteorological Society, 2021, 102, E1464-E1480.	3.3	5
85	Grain-surface microtextures in deposits affected by periglacial conditions (Abalakh) Tj ETQq1 1 0.784314 rgBT /C	Overlock 1	0 Tf 50 302
86	Glacial and periglacial geomorphology of central Troms and Finnmark county, Arctic Norway. Journal of Maps, 2021, 17, 348-366.	2.0	4
87	Geomorphology and InSAR-Tracked Surface Displacements in an Ice-Rich Yedoma Landscape. Frontiers in Earth Science, 2021, 9, .	1.8	10
88	Surface energy balance of subâ€Arctic roads with varying snow regimes and properties in permafrost regions. Permafrost and Periglacial Processes, 2021, 32, 681-701.	3.4	40
89	Recent degradation of interior Alaska permafrost mapped with ground surveys, geophysics, deep drilling, and repeat airborne lidar. Cryosphere, 2021, 15, 3555-3575.	3.9	21
90	Numerical optimization of the installing position for the L-shaped TPCT in a permafrost embankment based on the spatial heat control. Solar Energy, 2021, 224, 1406-1425.	6.1	8
91	Biophysical permafrost map indicates ecosystem processes dominate permafrost stability in the Northern Hemisphere. Environmental Research Letters, 2021, 16, 095010.	5.2	27

#	Article	IF	CITATIONS
92	Subarctic catchment water storage and carbon cycling – Leading the way for future studies using integrated datasets at Pallas, Finland. Hydrological Processes, 2021, 35, e14350.	2.6	10
93	Formation of Gas-Emission Craters in Northern West Siberia: Shallow Controls. Geosciences (Switzerland), 2021, 11, 393.	2.2	12
94	Data-driven spatiotemporal projections of shallow permafrost based on CMIP6 across the Qinghaiâ€'Tibet Plateau at 1Âkm2 scale. Advances in Climate Change Research, 2021, 12, 814-827.	5.1	25
95	Neutron scattering quantification of unfrozen pore water in frozen mud. Microporous and Mesoporous Materials, 2021, 324, 111267.	4.4	7
96	Exploring the multiple land degradation pathways across the planet. Earth-Science Reviews, 2021, 220, 103689.	9.1	104
97	The Tempo of Solid Fluids: On River Ice, Permafrost, and Other Melting Matter in the Mackenzie Delta. Theory, Culture and Society, 0, , 026327642110309.	2.4	5
98	Emergent biogeochemical risks from Arctic permafrost degradation. Nature Climate Change, 2021, 11, 809-819.	18.8	68
99	Saltwater Intrusion Intensifies Coastal Permafrost Thaw. Geophysical Research Letters, 2021, 48, e2021GL094776.	4.0	14
100	The rapidly changing Arctic and its societal implications. Wiley Interdisciplinary Reviews: Climate Change, 2021, 12, e735.	8.1	19
101	Qualitative risk assessment and strategies for infrastructure on permafrost in the French Alps. Cold Regions Science and Technology, 2021, 189, 103311.	3.5	14
102	Automatically quantifying evolution of retrogressive thaw slumps in Beiluhe (Tibetan Plateau) from multi-temporal CubeSat images. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102399.	2.8	12
103	Seasonal deformation monitoring over thermokarst landforms using terrestrial laser scanning in Northeastern Qinghai-Tibetan Plateau. International Journal of Applied Earth Observation and Geoinformation, 2021, 103, 102501.	2.8	7
104	Thermokarst., 2021,,.		2
105	Challenges and perspectives /b> for human activity in Arctic coastal environments â€" a review of selected interactions and problems., 2021, 25, 127-143.		3
106	Arctic Climate Change: Local Impacts, Global Consequences, and Policy Implications., 2020,, 507-526.		28
107	Circumpolar permafrost maps and geohazard indices for near-future infrastructure risk assessments. Scientific Data, 2019, 6, 190037.	5.3	51
108	Attribution of historical near-surface permafrost degradation to anthropogenic greenhouse gas warming. Environmental Research Letters, 2020, 15, 084040.	5.2	9
109	Prevention and control measures for coastal erosion in northern high-latitude communities: a systematic review based on Alaskan case studies. Environmental Research Letters, 2020, 15, 093002.	5.2	18

#	Article	IF	CITATIONS
110	Twenty years of European mountain permafrost dynamicsâ€"the PACE legacy. Environmental Research Letters, 2020, 15, 104070.	5.2	50
111	High potential for loss of permafrost landforms in a changing climate. Environmental Research Letters, 2020, 15, 104065.	5.2	28
112	Surface displacement revealed by L-band InSAR analysis in the Mayya area, Central Yakutia, underlain by continuous permafrost. Earth, Planets and Space, 2020, 72, .	2.5	30
113	Using Detection And Attribution To Quantify How Climate Change Is Affecting Health. Health Affairs, 2020, 39, 2168-2174.	5. 2	28
115	Permafrost seasonal surface changes revealed from Sentinel-1 InSAR time-series, Yamal peninsula. Proceedings of the International Association of Hydrological Sciences, 0, 382, 183-187.	1.0	3
116	Evaluating permafrost physics in the Coupled Model Intercomparison Project 6 (CMIP6) models and their sensitivity to climate change. Cryosphere, 2020, 14, 3155-3174.	3.9	77
117	The catastrophic thermokarst lake drainage events of 2018 in northwestern Alaska: fast-forward into the future. Cryosphere, 2020, 14, 4279-4297.	3.9	51
118	Estimation of subsurface porosities and thermal conductivities of polygonal tundra by coupled inversion of electrical resistivity, temperature, and moisture content data. Cryosphere, 2020, 14, 77-91.	3.9	7
119	Adaptive capacity to manage permafrost degradation in Northwest Greenland. Polar Geography, 2022, 45, 58-76.	1.9	4
120	Designing problems of oil fields infrustructre in the Arctic under the climate change. PROneft' Proffessional'no O Nefti, 2021, 6, 130-135.	0.1	0
121	Đž Ñ€Đ¸ÑĐ°Đ°Ñ Đ°Ñ€Đ°Ñ,Đ¸Ñ‡ĐµÑĐ°Đ¾Đ¹ Đ¸Đ½Ñ"Ñ€Đ°ÑÑ,Ñ€ÑƒĐºÑ,уры Đ¿Ñ€Đ¸ ĐĐµĐ³Ñ€Đ°ĐĐ°Ñ†E) _ς Đϙ Đ 2ĐμÑ	ĺ ‡Ð ½Ð¾Ð¹ f
122	Global forecast of the consequences of climate warming in the Northern hemisphere. Siberian Research, 2019, , 66-72.	0.1	0
123	About risks of Arctic infrastructure at permafrost degradation (θ_i omment on the article). Siberian Research, 2019, , 113-114.	0.1	0
124	Đ"Đ»Đ¾Đ±Đ°Đ»ÑŒĐ½Ñ‹Đ¹ Đ¿Ñ€Đ¾Đ3Đ½Đ¾Đ· Đ¿Đ¾ÑĐ»ĐμĐÑÑ,Đ²Đ¸Đ¹ Đ¿Đ¾Ñ,ĐμĐ¿Đ»ĐμĐ½Đ¸Ñ•Đ°Đ»	Đ ,Đ.½ аÑ	, Đ ϐ CĐμĐ²Đ <u>)</u>
125	Automated Monitoring The Temperature Under Buildings With Pile Foundations In Salekhard (Preliminary Results). Geography, Environment, Sustainability, 2021, 14, 75-82.	1.3	6
126	Building Stability On Permafrost In Vorkuta, Russia. Geography, Environment, Sustainability, 2021, 14, 67-74.	1.3	9
127	Methodical Approaches for Durability Assessment of Engineering Structures in Cold Regions. Lecture Notes in Civil Engineering, 2020, , 473-478.	0.4	21
128	Model and calculation of the stress-strain state of a hydrate-containing medium during its partial thawing. Keldysh Institute Preprints, 2020, , 1-23.	0.2	0

#	Article	IF	CITATIONS
129	Vegetation Change. , 2020, , 367-432.		0
130	Elastic properties as indicators of heat flux into cold near-surface Arctic sediments. Geophysics, 2020, 85, MR309-MR323.	2.6	1
131	Circum-Arctic Map of the Yedoma Permafrost Domain. Frontiers in Earth Science, 2021, 9, .	1.8	49
132	Impact Assessment And Stochastic Modeling Of Morphometric Parameters Of Thermokarst Hazard For Unpaved Roads. Geography, Environment, Sustainability, 2020, 13, 98-106.	1.3	1
133	Magnitudes and patterns of large-scale permafrost ground deformation revealed by Sentinel-1 InSAR on the central Qinghai-Tibet Plateau. Remote Sensing of Environment, 2022, 268, 112778.	11.0	59
134	Remote sensing annual dynamics of rapid permafrost thaw disturbances with LandTrendr. Remote Sensing of Environment, 2022, 268, 112752.	11.0	47
135	Expanding infrastructure and growing anthropogenic impacts along Arctic coasts. Environmental Research Letters, 2021, 16, 115013.	5.2	26
136	Municipal Programs and Sustainable Development in Russian Northern Cities: Case Studies of Murmansk and Magadan. Sustainability, 2021, 13, 12140.	3.2	1
137	The Compound Impacts of Changing Temperature and Snow Cover on Freeze and Thaw Patterns across Québec., 2021,,.		2
138	Multi-Dimensional Remote Sensing Analysis Documents Beaver-Induced Permafrost Degradation, Seward Peninsula, Alaska. Remote Sensing, 2021, 13, 4863.	4.0	5
139	ĐŸÑ€Đ¾Đ±Đ»ĐμĐ¼Ñ‹ĐįÑ€Đ¾ĐμĐºÑ,Đ¸Ñ€Đ¾Đ₽°Đ½Đ¸Ñ∙Đ¸Đ½Ñ"Ñ€Đ°ÑŇ,Ñ€ÑƒĐºÑ,урыĐÑ€ĐºÑ,иÑ	‡ĐμÑĐºĐ¸l	Ñ.ΩĐ½ĐμÑ"
140	Impacts of permafrost degradation on infrastructure. Nature Reviews Earth & Environment, 2022, 3, 24-38.	29.7	150
141	Lake and drained lake basin systems in lowland permafrost regions. Nature Reviews Earth & Environment, 2022, 3, 85-98.	29.7	41
142	Climate warming and permafrost thaw in the Russian Arctic: potential economic impacts on public infrastructure by 2050. Natural Hazards, 2022, 112, 231-251.	3.4	28
143	Drivers, dynamics and impacts of changing Arctic coasts. Nature Reviews Earth & Environment, 2022, 3, 39-54.	29.7	74
144	Field Observations of Near-Surface Wind Flow Across Expressway Embankment on the Qinghai–Tibet Plateau. Engineering, 2022, 14, 169-180.	6.7	4
145	Permafrost Degradation and Its Hydrogeological Impacts. Water (Switzerland), 2022, 14, 372.	2.7	33
146	Risk assessment of the crushed rock structure embankments of the Qinghai-Tibet Railway under a warming climate. Cold Regions Science and Technology, 2022, 196, 103509.	3.5	5

#	Article	IF	CITATIONS
147	Hydrologicâ€land surface modelling of the Canadian sporadicâ€discontinuous permafrost: initialization and uncertainty propagation. Hydrological Processes, 0, , .	2.6	3
148	Permafrost in monitored unstable rock slopes in Norway – new insights from temperature and surface velocity measurements, geophysical surveying, and ground temperature modelling. Earth Surface Dynamics, 2022, 10, 97-129.	2.4	11
149	Fine-resolution mapping of the circumpolar Arctic Man-made impervious areas (CAMI) using sentinels, OpenStreetMap and ArcticDEM. Big Earth Data, 2022, 6, 196-218.	4.4	6
150	An overview on pipeline steel development for cold climate applications. Journal of Pipeline Science and Engineering, 2022, 2, 1-17.	4.8	14
151	Compound changes in temperature and snow depth lead to asymmetric and nonlinear responses in landscape freeze–thaw. Scientific Reports, 2022, 12, 2196.	3.3	11
152	Permafrost Ground Ice Melting and Deformation Time Series Revealed by Sentinel-1 InSAR in the Tanggula Mountain Region on the Tibetan Plateau. Remote Sensing, 2022, 14, 811.	4.0	11
154	New high-resolution estimates of the permafrost thermal state and hydrothermal conditions over the Northern Hemisphere. Earth System Science Data, 2022, 14, 865-884.	9.9	68
155	Permafrost Base Degradation: Characteristics and Unknown Thread With Specific Example From Hornsund, Svalbard. Frontiers in Earth Science, 2022, 10, .	1.8	6
156	Identification and Correlation Analysis of Engineering Environmental Risk Factors along the Qinghai–Tibet Engineering Corridor. Remote Sensing, 2022, 14, 908.	4.0	6
157	Permafrost, active layer, and meteorological data (2010–2020) at the Mahan Mountain relict permafrost site of northeastern Qinghai–Tibet Plateau. Earth System Science Data, 2022, 14, 1257-1269.	9.9	5
158	Multi-Parameter Protocol for Geocryological Test Site: A Case Study Applied for the European North of Russia. Energies, 2022, 15, 2076.	3.1	4
159	Understanding Effects of Permafrost Degradation and Coastal Erosion on Civil Infrastructure in Arctic Coastal Villages: A Community Survey and Knowledge Co-Production. Journal of Marine Science and Engineering, 2022, 10, 422.	2.6	9
160	Possibility for strong northern hemisphere high-latitude cooling under negative emissions. Nature Communications, 2022, 13, 1095.	12.8	10
161	Infrastructural legacies and post-Soviet transformations in Northern Sakha (Yakutiya), Russia. Journal of Environmental Policy and Planning, 2022, 24, 297-308.	2.8	3
162	Quantifying the Relationship Between Human Activities Intensity and Thawing Hazards of the Frozen Ground on the Qinghai–Tibet Plateau. Frontiers in Earth Science, 2022, 10, .	1.8	2
163	Sensitivity of headwater streamflow to thawing permafrost and vegetation change in a warming Arctic. Environmental Research Letters, 2022, 17, 044074.	5.2	12
164	Advances in modelling large river basins in cold regions with Modélisation Environmentale Communautaire—Surface and Hydrology (MESH), the Canadian hydrological land surface scheme. Hydrological Processes, 2022, 36, .	2.6	14
165	Spatial variability and influential factors of active layer thickness and permafrost temperature change on the Qinghai-Tibet Plateau from 2012 to 2018. Agricultural and Forest Meteorology, 2022, 318, 108913.	4.8	10

#	Article	IF	CITATIONS
166	Air-convection-reflective sheds: A mitigation technique that stopped degradation and promoted permafrost recovery under the Alaska Highway, south-western Yukon, Canada. Cold Regions Science and Technology, 2022, 197, 103524.	3.5	6
167	A glimpse into the northernmost thermo-erosion gullies in Svalbard archipelago and their implications for Arctic cultural heritage. Catena, 2022, 212, 106105.	5.0	5
168	Synthesis of physical processes of permafrost degradation and geophysical and geomechanical properties of permafrost. Cold Regions Science and Technology, 2022, 198, 103522.	3.5	8
169	Permafrost degradation induced thaw settlement susceptibility research and potential risk analysis in the Qinghai-Tibet Plateau. Catena, 2022, 214, 106239.	5.0	16
170	PermaBN: A Bayesian Network framework to help predict permafrost thaw in the Arctic. Ecological Informatics, 2022, 69, 101601.	5.2	0
171	Economic Assessment of Permafrost Degradation Effects on Healthcare Facilities in the Russian Arctic. Herald of the Russian Academy of Sciences, 2021, 91, 677-686.	0.6	11
172	Permafrost Dynamics and Degradation in Polar Arctic From Satellite Radar Observations, Yamal Peninsula. Frontiers in Earth Science, 2021, 9, .	1.8	2
173	The Thermal and Settlement Characteristics of Crushed-Rock Structure Embankments of the Qinghai-Tibet Railway in Permafrost Regions Under Climate Warming. Frontiers in Earth Science, 2021, 9, .	1.8	3
174	The Value Of Buildings And Structures For Permafrost Damage Prediction: The Case Of Eastern Russian Arctic. Geography, Environment, Sustainability, 2021, 14, 83-92.	1.3	4
175	Risk assessment of engineering diseases of embankment–bridge transition section for railway in permafrost regions. Permafrost and Periglacial Processes, 2022, 33, 46-62.	3.4	8
176	Specific formation of architecture under dynamics of natural and climatic changes in the Arctic region., 2021,, 916-924.		0
177	CMIP6 model projections leave no room for permafrost to persist in Western Siberia under the SSP5-8.5 scenario. Climatic Change, 2021, 169, 1.	3.6	7
178	The Application of Satellite Image Analysis in Oil Spill Detection. Applied Sciences (Switzerland), 2022, 12, 4016.	2.5	10
188	Climate change is a health issue. Canadian Family Physician, 2021, 67, 719-719.	0.4	1
189	Topological acoustic sensing of ground stiffness: Presenting a potential means of sensing warming permafrost in a forest. Cold Regions Science and Technology, 2022, 199, 103569.	3.5	2
190	Contrasting characteristics, changes, and linkages of permafrost between the Arctic and the Third Pole. Earth-Science Reviews, 2022, 230, 104042.	9.1	42
191	Watching the Cryosphere Thaw: Seismic Monitoring of Permafrost Degradation Using Distributed Acoustic Sensing During a Controlled Heating Experiment. Geophysical Research Letters, 2022, 49, .	4.0	9
192	Creep characteristics and unified macro–meso creep model for saturated frozen soil under constant/variable temperature conditions. Acta Geotechnica, 2022, 17, 5299-5319.	5 .7	8

#	Article	IF	CITATIONS
193	Historical and Future Climate Analysis of Warm Permafrost Regions: A Case Study of Bethel, Ak. SSRN Electronic Journal, 0, , .	0.4	0
194	Thawing Permafrost as a Nitrogen Fertiliser: Implications for Climate Feedbacks. Nitrogen, 2022, 3, 353-375.	1.3	4
195	Arctic's man-made impervious surfaces expanded by over two-thirds in the 21st century. Science Bulletin, 2022, 67, 1425-1429.	9.0	4
196	Surface temperature inversion characteristics in dissimilar valleys, Yukon Canada. Arctic Science, 0, , .	2.3	2
197	Cyclic Freeze-Thaw Induced Very Small-Strain Stiffness Anisotropy of Sandy Silt Under Unidirectional Freezing Mode. SSRN Electronic Journal, 0, , .	0.4	0
198	Accuracy, Efficiency, and Transferability of a Deep Learning Model for Mapping Retrogressive Thaw Slumps across the Canadian Arctic. Remote Sensing, 2022, 14, 2747.	4.0	9
199	Convolutional Neural Networks for Automated Built Infrastructure Detection in the Arctic Using Sub-Meter Spatial Resolution Satellite Imagery. Remote Sensing, 2022, 14, 2719.	4.0	5
200	Changes in Unfrozen Water Contents in Warming Permafrost Soils. Geosciences (Switzerland), 2022, 12, 253.	2.2	2
201	The Indicator Role of Algae in Assessing the Organic Pollution in the Lena River Delta, the Russian Arctic. Frontiers in Environmental Science, 0 , 10 , .	3.3	2
202	Climate Change Impacts on Coastal and Offshore Petroleum Infrastructure and the Associated Oil Spill Risk: A Review. Journal of Marine Science and Engineering, 2022, 10, 849.	2.6	20
203	Framing the Use of Climate Model Projections in Infrastructure Engineering: Practices, Uncertainties, and Recommendations. Journal of Infrastructure Systems, 2022, 28, .	1.8	1
204	Thermal and mechanical analysis of the China–Russia Crude Oil Pipeline suffering settlement disaster in permafrost regions. International Journal of Pressure Vessels and Piping, 2022, 199, 104729.	2.6	4
205	We Must Stop Fossil Fuel Emissions to Protect Permafrost Ecosystems. Frontiers in Environmental Science, 0, 10 , .	3.3	9
206	North Eurasian thermal comfort indices dataset (NETCID): new gridded database for the biometeorological studies. Environmental Research Letters, 2022, 17, 085006.	5.2	2
207	Modeling the Temperature Field in Frozen Soil under Buildings in the City of Salekhard Taking into Account Temperature Monitoring. Land, 2022, 11, 1102.	2.9	4
208	Increased Water Content in the Active Layer Revealed by Regionalâ€Scale InSAR and Independent Component Analysis on the Central Qinghaiâ€Tibet Plateau. Geophysical Research Letters, 2022, 49, .	4.0	4
209	Artificial Thawing of Frozen Ground: A Review. Journal of Cold Regions Engineering - ASCE, 2022, 36, .	1.1	1
210	Current Siberian heating is unprecedented during the past seven millennia. Nature Communications, 2022, 13, .	12.8	17

#	Article	IF	CITATIONS
211	Arctic roads and railways: social and environmental consequences of transport infrastructure in the circumpolar North. Arctic Science, 2023, 9, 297-330.	2.3	10
212	Global Snow- and Ice-Related Disaster Risk: A Review. Natural Hazards Review, 2022, 23, .	1.5	3
213	Impacts of snow cover on the pattern and velocity of air flow in air convection embankments of sub-Arctic regions. Renewable Energy, 2022, 199, 1033-1046.	8.9	20
214	Historical and long-term climate trends in warm permafrost regions: A case study of Bethel, AK. Cold Regions Science and Technology, 2022, 204, 103677.	3.5	1
215	Spatial and temporal characteristics of the site-specific N-factor over the Qinghai-Tibet Plateau. Cold Regions Science and Technology, 2023, 205, 103684.	3.5	1
216	Observed permafrost thawing and disappearance near the altitudinal limit of permafrost in the Qilian Mountains. Advances in Climate Change Research, 2022, 13, 642-650.	5.1	3
217	Attributing observed permafrost warming in the northern hemisphere to anthropogenic climate change. Environmental Research Letters, 2022, 17, 095014.	5.2	4
218	Response of Permafrost Thermal State to Global Climatic Change in Urbanised Landscapes, Yakutsk, Russia. Land, 2022, 11, 1513.	2.9	1
219	Socio-ecological crises and global climate tipping points as difficulties for expanding extractivisms: prognoses on the Arctic. Globalizations, 2023, 20, 465-481.	2.7	3
220	Evaluation and prediction of engineering construction suitability in the China-Mongolia-Russia Economic Corridor. Advances in Climate Change Research, 2022, , .	5.1	2
221	System identity and transformation in petroleum jurisdictions: A multi-method approach for the North Slope Borough, Alaska. , 2022, 1, e0000028.		0
222	A novel low-temperature thermo-mechanical coupling model for frost cracking simulation using the finite-discrete element method. Computers and Geotechnics, 2022, 152, 105045.	4.7	16
223	Geophysical research for organization and service of the regional permafrost monitoring network in the Yamalo-Nenets Autonomous District. Interexpo GEO-Siberia, 2022, 2, 321-327.	0.0	0
224	Frost Crack Propagation and Interaction in Fissured Rocks Subjected to Freeze–thaw Cycles: Experimental and Numerical Studies. Rock Mechanics and Rock Engineering, 2023, 56, 1077-1097.	5. 4	11
225	Permafrost degradation increases risk and large future costs of infrastructure on the Third Pole. Communications Earth & Environment, 2022, 3, .	6.8	24
226	Evaluating simplifications of subsurface process representations for field-scale permafrost hydrology models. Cryosphere, 2022, 16, 4141-4162.	3.9	2
227	Warming-driven erosion and sediment transport in cold regions. Nature Reviews Earth & Environment, 2022, 3, 832-851.	29.7	36
228	Risk evaluation of thaw settlement using machine learning models for the Wudaoliang-Tuotuohe region, Qinghai-Tibet Plateau. Catena, 2023, 220, 106700.	5.0	5

#	Article	IF	CITATIONS
229	Spatial Variability of Active Layer Thickness along the Qinghaiâ€"Tibet Engineering Corridor Resolved Using Ground-Penetrating Radar. Remote Sensing, 2022, 14, 5606.	4.0	2
230	Driven precast concrete geothermal energy piles: Current state of knowledge. Building and Environment, 2023, 228, 109790.	6.9	10
231	Deformation and Volumetric Change in a Typical Retrogressive Thaw Slump in Permafrost Regions of the Central Tibetan Plateau, China. Remote Sensing, 2022, 14, 5592.	4.0	4
232	The cold regions hydrological modelling platform for hydrological diagnosis and prediction based on process understanding. Journal of Hydrology, 2022, 615, 128711.	5.4	13
233	Permafrost controls the displacement rates of large unstable rock-slopes in subarctic environments. Global and Planetary Change, 2023, 220, 104017.	3.5	6
234	Impact of heat and contaminants transfer from landfills to permafrost subgrade in arctic climate: A review. Cold Regions Science and Technology, 2023, 206, 103737.	3.5	6
236	A newly integrated ground temperature dataset of permafrost along the China–Russia crude oil pipeline route in Northeast China. Earth System Science Data, 2022, 14, 5093-5110.	9.9	3
238	Ice Volumes in Permafrost Landscapes of Arctic Yakutia. Land, 2022, 11, 2329.	2.9	1
239	Performance and changes of <scp>highâ€resolution</scp> (1 km) surface air temperature in Northern Hemisphere permafrost regions. International Journal of Climatology, 2023, 43, 1333-1348.	3.5	2
240	Divergent runoff impacts of permafrost and seasonally frozen ground at a large river basin of Tibetan Plateau during 1960–2019. Environmental Research Letters, 2022, 17, 124038.	5.2	6
241	Assessment of permafrost disturbances caused by two parallel buried warm-oil pipelines: A case study at a high-latitude wetland site in Northeast China. Cold Regions Science and Technology, 2023, 206, 103753.	3.5	2
242	The Potential of UAV Imagery for the Detection of Rapid Permafrost Degradation: Assessing the Impacts on Critical Arctic Infrastructure. Remote Sensing, 2022, 14, 6107.	4.0	5
243	Consistent Timing of Arctic Permafrost Loss Across the CESM1 Large Ensemble. Geophysical Research Letters, 2022, 49, .	4.0	1
244	Frost heave mitigation of silt clay using nonionic polyacrylamide. Cold Regions Science and Technology, 2022, , 103755.	3.5	0
245	Recent Intensification (2004–2020) of Permafrost Massâ€Wasting in the Central Mackenzie Valley Foothills Is a Legacy of Past Forest Fire Disturbances. Geophysical Research Letters, 2022, 49, .	4.0	3
246	Drilling Targets in the Polar Regions. Springer Polar Sciences, 2022, , 1-42.	0.1	0
247	CALC-2020: a new baseline land cover map at 10 m resolution for the circumpolar Arctic. Earth System Science Data, 2023, 15, 133-153.	9.9	2
248	Design basis for Arctic infrastructure facilities. AIMS Geosciences, 2023, 9, 86-94.	1.0	1

#	Article	IF	CITATIONS
249	Characterizing the Changes in Permafrost Thickness across Tibetan Plateau. Remote Sensing, 2023, 15, 206.	4.0	2
251	Multi-hazard susceptibility mapping of cryospheric hazards in a high-Arctic environment: Svalbard Archipelago. Earth System Science Data, 2023, 15, 447-464.	9.9	5
252	Mitigating embankment frost heave with nano-ZnO in the Arctic. Journal of Cleaner Production, 2023, 393, 136073.	9.3	0
253	Two-dimensional simulation of island permafrost degradation in Northeastern Tibetan Plateau. Geoderma, 2023, 430, 116330.	5.1	1
255	Modern approaches to the design of bases and foundations at permafrost zone sites with account for the effects of global warming. E3S Web of Conferences, 2023, 371, 02031.	0.5	1
256	The Arctic Amplification and Its Impact: A Synthesis through Satellite Observations. Remote Sensing, 2023, 15, 1354.	4.0	8
257	Monitoring Ground Surface Deformation of Ice-Wedge Polygon Areas in Saskylakh, NW Yakutia, Using Interferometric Synthetic Aperture Radar (InSAR) and Google Earth Engine (GEE). Remote Sensing, 2023, 15, 1335.	4.0	3
258	Challenges in Hydrologic‣and Surface Modeling of Permafrost Signatures—A Canadian Perspective. Journal of Advances in Modeling Earth Systems, 2023, 15, .	3.8	0
259	Three-Dimensional Fully Coupled Thermo-Hydro-Mechanical Model for Thaw Consolidation of Permafrost. , 2023, , .		0
260	Field observations of the thermal stability of permafrost under buildings with an underfloor open ventilation space and pile foundations in warm permafrost at high altitudes. Advances in Climate Change Research, 2023, 14, 267-275.	5.1	1
261	Thermal and mechanical response of frozen soils and buried pipeline armed with thermosyphons and insulation layer. Heat and Mass Transfer, 2023, 59, 1591-1599.	2.1	1
262	Thawing permafrost poses environmental threat to thousands of sites with legacy industrial contamination. Nature Communications, 2023, 14, .	12.8	6
263	Analysis of the Interconnected Development Potential of the Oil, Gas and Transport Industries in the Russian Arctic. Energies, 2023, 16, 3124.	3.1	19
264	Subsurface Porewater Flow Accelerates Talik Development Under the Alaska Highway, Yukon: A Prelude to Road Collapse and Final Permafrost Thaw?. Water Resources Research, 2023, 59, .	4.2	4
265	Changes in Soil Freeze Depth in Response to Climatic Factors in the High-Latitude Regions of Northeast China. Sustainability, 2023, 15, 6661.	3.2	1
266	Undrained Shear Strength of Frozen Unsaturated Silts. E3S Web of Conferences, 2023, 382, 06001.	0.5	0
267	Accelerated permafrost thaw and increased drainage in the active layer: Responses from experimental surface alteration. Cold Regions Science and Technology, 2023, 212, 103899.	3.5	1
268	Research progress and prospect of frozen soil engineering disasters. Cold Regions Science and Technology, 2023, 212, 103901.	3.5	4

#	Article	IF	CITATIONS
269	Will current protected areas harbor refugia for threatened Arctic vegetation types until 2050? A first assessment. Arctic, Antarctic, and Alpine Research, 2023, 55, .	1.1	0
270	Comparing Thermal Regime Stages along a Small Yakutian Fluvial Valley with Point Scale Measurements, Thermal Modeling, and Near Surface Geophysics. Remote Sensing, 2023, 15, 2524.	4.0	0
271	High potential for pile-bearing capacity loss and ground subsidence over permafrost regions across the Northern Hemisphere. Global and Planetary Change, 2023, 226, 104156.	3.5	3
272	A dynamic constitutive model of unsaturated frozen soil with coupled frictional sliding and damage evolution of local cracks. Cold Regions Science and Technology, 2023, 213, 103907.	3.5	1
273	Thaw-Season InSAR Surface Displacements and Frost Susceptibility Mapping to Support Community-Scale Planning in Ilulissat, West Greenland. Remote Sensing, 2023, 15, 3310.	4.0	1
274	(Un)frozen foundations: A study of permafrost construction practices in Russia, Alaska, and Canada. Ambio, 2023, 52, 1170-1183.	5.5	3
275	Recent massive expansion of wildfire and its impact on active layer over pan-Arctic permafrost. Environmental Research Letters, 2023, 18, 084010.	5.2	0
276	Forecasting the Costs for Adapting the Housing Stock to Changing Permafrost Conditions (the Case) Tj ETQq $1\ 1$	0.784314	rgBT /Ove <mark>rl</mark> c
277	Arctic geohazard mapping tools for civil infrastructure planning: A systematic review. Cold Regions Science and Technology, 2023, , 103969.	3.5	1
278	Thermal-deformation behavior of a crushed-rock embankment along a high-grade highway in permafrost regions. Energy, 2023, 283, 128564.	8.8	1
279	Highly restricted nearâ€surface permafrost extent during the mid-Pliocene warm period. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.1	0
280	Toward a Permafrost Vulnerability Index for Critical Infrastructure, Community Resilience and National Security. Geographies, 2023, 3, 522-542.	1.5	0
281	Permafrost estimation model in Upper Indus Basin. Journal of Earth System Science, 2023, 132, .	1.3	1
282	Qualitative evaluation of thaw settlement potential in permafrost regions of Canada. Cold Regions Science and Technology, 2023, 216, 104005.	3.5	0
283	Ablationâ€Limited Erosion Rates of Permafrost Riverbanks. Journal of Geophysical Research F: Earth Surface, 2023, 128, .	2.8	1
284	Permafrost Probability Mapping at a 30 m Resolution in Arxan Based on Multiple Characteristic Variables and Maximum Entropy Classifier. Applied Sciences (Switzerland), 2023, 13, 10692.	2.5	1
285	Detection of Winter Heat Wave Impact on Surface Runoff in a Periglacial Environment (Ny-Ãlesund,) Tj ETQq0 (0 rgBT /C 4.0	overlock 10 T
286	Scenario Forecasts of Expected Damage from Permafrost Degradation: Regional and Industry Issues. Studies on Russian Economic Development, 2023, 34, 651-659.	1.0	0

#	Article	IF	CITATIONS
287	Assessment of Investment in the Adaptation of the Economy to Consequences of Permafrost Degradation in Russia. Herald of the Russian Academy of Sciences, 2023, 93, 308-315.	0.6	0
288	Investigating cracking behavior of saline clayey soil under cyclic freezing-thawing effects. Engineering Geology, 2023, 326, 107319.	6.3	3
289	Study on the geothermal environment of urban building in permafrost regions of Northeast China. Journal of Building Engineering, 2023, 79, 107919.	3.4	1
290	Off-Grid Solar Powered Ground Cooling System. Journal of Cold Regions Engineering - ASCE, 2024, 38,	1.1	O
291	Identifying active retrogressive thaw slumps from ArcticDEM. ISPRS Journal of Photogrammetry and Remote Sensing, 2023, 205, 301-316.	11,1	0
293	Timeâ€series InSAR monitoring of surface deformation in Yakutsk, a city located on continuous permafrost. Earth Surface Processes and Landforms, 2024, 49, 918-932.	2.5	1
294	Influence of Climate Warming on the Ground Surface Stability over Permafrost along the Qinghai–Tibet Engineering Corridor. Sustainability, 2023, 15, 16412.	3.2	0
295	Increasing multi-hazard climate risk and financial and health impacts on northern homeowners. Ambio, 2024, 53, 389-405.	5.5	O
297	Recent Ground Displacement Over Permafrost in Midwestern Spitsbergen, Svalbard: InSAR Measurements and Modeling. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2024, 17, 573-583.	4.9	0
298	Thermo-mechanical stability analysis of thermosyphons for pipeline soil and their optimal layout in permafrost regions. Cold Regions Science and Technology, 2024, 218, 104078.	3.5	O
300	The infrastructure cost of permafrost degradation for the Northern Hemisphere. Global Environmental Change, 2024, 84, 102791.	7.8	1
301	Forecasting the Costs of Adapting Social Infrastructure to Changing Geocryological Conditions (the) Tj ETQq1	1 0.784314 0.6	rgBT Overlo
302	Experimental study of natural convection and cooling capacity of closed crushed-rock layers affected by summer rainfall in cold regions. Cold Regions Science and Technology, 2024, 219, 104106.	3.5	0
304	A micro frost heave model for porous rock considering pore characteristics and water saturation. Computers and Geotechnics, 2024, 166, 106029.	4.7	1
305	Habitability of low-lying socio-ecological systems under a changing climate. Climatic Change, 2024, 177, .	3.6	1
306	Polar climate change: a multidisciplinary assessment. Revista Brasileira De Geografia Fisica, 2023, 16, 3204-3224.	0.1	O
307	Opportunities and threats of cryosphere change to the achievement of UN 2030 SDGs. Humanities and Social Sciences Communications, 2024, 11 , .	2.9	0
308	Evaluating the thermal environment of urban land surfaces in Yakutsk, a city located in a region of continuous permafrost. Advances in Climate Change Research, 2024, 15, 113-123.	5.1	O

#	Article	IF	CITATIONS
310	Fine-resolution mapping and assessment of artificial surfaces in the northern hemisphere permafrost environments. International Journal of Digital Earth, 2024, 17 , .	3.9	0
311	Thaw settlement susceptibility mapping for roads on permafrost - Towards climate-resilient and cost-efficient infrastructure in the Arctic. Cold Regions Science and Technology, 2024, 220, 104136.	3.5	0
312	The mid- and late Holocene palsa palaeoecology and hydroclimatic changes in Yenisei Siberia revealed by a high-resolution peat archive. Quaternary International, 2024, 682, 8-21.	1.5	0
313	A Damage Assessment of the Bearing Capacity of Frozen Grounds due to Temperature Change and Permafrost Thawing in the Arctic Zone of the Russian Federation by the Middle of the 21st Century. Moscow University Geology Bulletin, 2023, 78, 815-826.	0.3	0
314	Ground subsidence and polygon development due to thermokarst in the Lena-Aldan interfluve, eastern Siberia, revealed by satellite remote sensing data. Progress in Earth and Planetary Science, 2024, 11, .	3.0	0
315	Land cover changes across Greenland dominated by a doubling of vegetation in three decades. Scientific Reports, 2024, 14, .	3.3	0
316	Transient Electromagnetic Monitoring of Permafrost: Mathematical Modeling Based on Sumudu Integral Transform and Artificial Neural Networks. Mathematics, 2024, 12, 585.	2.2	0
317	Impacts of future permafrost degradation and human modification on terrestrial vertebrates. Biological Conservation, 2024, 291, 110475.	4.1	0
318	Review of the Impact of Permafrost Thawing on the Strength of Soils. Journal of Cold Regions Engineering - ASCE, 2024, 38, .	1.1	0
319	Investigation on the bearing capacity evolution of building pile foundation during permafrost degradation. Cold Regions Science and Technology, 2024, 221, 104152.	3.5	0
320	A study of thermal modeling parameters and their impact on modelled permafrost responses to climate warming. Cold Regions Science and Technology, 2024, 221, 104155.	3.5	0
321	Cooling Effects of Interface Heat Control for Wide Permafrost Subgrades. Atmosphere, 2024, 15, 299.	2.3	0
322	Frozen-Ground Cartoonsâ€"Revealing the Invisible Ice. , 2024, , 219-233.		0
323	Estimating Thaw Settlement of Highly Organic Permafrost. , 2024, , .		0
324	Machine learning-based predictions of current and future susceptibility to retrogressive thaw slumps across the Northern Hemisphere. Advances in Climate Change Research, 2024, , .	5.1	0
325	Permafrost Degradation Threatening the Qinghaiâ^Xizang Railway. Engineering, 2024, , .	6.7	0
326	Augmenting daily MODIS LST with AIRS surface temperature retrievals to estimate ground temperature and permafrost extent in High Mountain Asia. Remote Sensing of Environment, 2024, 305, 114075.	11.0	0
327	Application of the cooling measures in the highway roadbed in permafrost regions of the Qinghai-Tibet Plateau. Cold Regions Science and Technology, 2024, 221, 104177.	3.5	0