

Vladimir E Romanovsky

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115
papers

15,283
citations

54
h-index

123
g-index

134
ext. papers

18,042
ext. citations

6.4
avg, IF

6.34
L-index

#	Paper	IF	Citations
115	Climate change and the permafrost carbon feedback. <i>Nature</i> , 2015 , 520, 171-9	50.4	1667
114	Observational Evidence of Recent Change in the Northern High-Latitude Environment. <i>Climatic Change</i> , 2000 , 46, 159-207	4.5	1452
113	Vulnerability of Permafrost Carbon to Climate Change: Implications for the Global Carbon Cycle. <i>BioScience</i> , 2008 , 58, 701-714	5.7	1138
112	Evidence and Implications of Recent Climate Change in Northern Alaska and Other Arctic Regions. <i>Climatic Change</i> , 2005 , 72, 251-298	4.5	1074
111	Permafrost is warming at a global scale. <i>Nature Communications</i> , 2019 , 10, 264	17.4	518
110	Permafrost thermal state in the polar Northern Hemisphere during the international polar year 2007-2009: a synthesis. <i>Permafrost and Periglacial Processes</i> , 2010 , 21, 106-116	4.2	506
109	Evidence for warming and thawing of discontinuous permafrost in Alaska. <i>Permafrost and Periglacial Processes</i> , 1999 , 10, 17-37	4.2	393
108	Pan-Arctic ice-wedge degradation in warming permafrost and its influence on tundra hydrology. <i>Nature Geoscience</i> , 2016 , 9, 312-318	18.3	378
107	Resilience and vulnerability of permafrost to climate changeThis article is one of a selection of papers from The Dynamics of Change in Alaska's Boreal Forests: Resilience and Vulnerability in Response to Climate Warming.. <i>Canadian Journal of Forest Research</i> , 2010 , 40, 1219-1236	1.9	345
106	Thermal state of permafrost in Russia. <i>Permafrost and Periglacial Processes</i> , 2010 , 21, 136-155	4.2	312
105	Vulnerability of high-latitude soil organic carbon in North America to disturbance. <i>Journal of Geophysical Research</i> , 2011 , 116,		292
104	Effects of unfrozen water on heat and mass transport processes in the active layer and permafrost. <i>Permafrost and Periglacial Processes</i> , 2000 , 11, 219-239	4.2	282
103	Importance of recent shifts in soil thermal dynamics on growing season length, productivity, and carbon sequestration in terrestrial high-latitude ecosystems. <i>Global Change Biology</i> , 2006 , 12, 731-750	11.4	269
102	Key indicators of Arctic climate change: 1971-2017. <i>Environmental Research Letters</i> , 2019 , 14, 045010	6.2	260
101	Fire, climate change, and forest resilience in interior AlaskaThis article is one of a selection of papers from The Dynamics of Change in Alaska's Boreal Forests: Resilience and Vulnerability in Response to Climate Warming.. <i>Canadian Journal of Forest Research</i> , 2010 , 40, 1302-1312	1.9	242
100	Circumpolar distribution and carbon storage of thermokarst landscapes. <i>Nature Communications</i> , 2016 , 7, 13043	17.4	238
99	The impact of the permafrost carbon feedback on global climate. <i>Environmental Research Letters</i> , 2014 , 9, 085003	6.2	218

98	Expert assessment of vulnerability of permafrost carbon to climate change. <i>Climatic Change</i> , 2013 , 119, 359-374	4.5	212
97	Sensitivity of a model projection of near-surface permafrost degradation to soil column depth and representation of soil organic matter. <i>Journal of Geophysical Research</i> , 2008 , 113,		207
96	The role of snow cover in the warming of arctic permafrost. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	205
95	Northern Hemisphere permafrost map based on TTOP modelling for 2000-2016 at 1 km ² scale. <i>Earth-Science Reviews</i> , 2019 , 193, 299-316	10.2	203
94	Modern thermokarst lake dynamics in the continuous permafrost zone, northern Seward Peninsula, Alaska. <i>Journal of Geophysical Research</i> , 2011 , 116,		196
93	Impacts of wildfire on the permafrost in the boreal forests of Interior Alaska. <i>Journal of Geophysical Research</i> , 2003 , 108, FFR 4-1		191
92	Dependence of the evolution of carbon dynamics in the northern permafrost region on the trajectory of climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3882-3887	11.5	186
91	Degrading permafrost puts Arctic infrastructure at risk by mid-century. <i>Nature Communications</i> , 2018 , 9, 5147	17.4	181
90	Interannual variations of the thermal regime of the active layer and near-surface permafrost in northern Alaska. <i>Permafrost and Periglacial Processes</i> , 1995 , 6, 313-335	4.2	177
89	Thawing of the Active Layer on the Coastal Plain of the Alaskan Arctic. <i>Permafrost and Periglacial Processes</i> , 1997 , 8, 1-22	4.2	171
88	Global Climate Model Performance over Alaska and Greenland. <i>Journal of Climate</i> , 2008 , 21, 6156-6174	4.4	161
87	Improved modeling of permafrost dynamics in a GCM land-surface scheme. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	152
86	Vegetation-soil-thaw-depth relationships along a low-arctic bioclimate gradient, Alaska: synthesis of information from the ATLAS studies. <i>Permafrost and Periglacial Processes</i> , 2003 , 14, 103-123	4.2	140
85	Deep Yedoma permafrost: A synthesis of depositional characteristics and carbon vulnerability. <i>Earth-Science Reviews</i> , 2017 , 172, 75-86	10.2	135
84	Permafrost temperature records: Indicators of climate change. <i>Eos</i> , 2002 , 83, 589	1.5	133
83	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,	3	125
82	Numerical modeling of permafrost dynamics in Alaska using a high spatial resolution dataset. <i>Cryosphere</i> , 2012 , 6, 613-624	5.5	122
81	Decadal variations of active-layer thickness in moisture-controlled landscapes, Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2010 , 115,		118

80	The Effect of Moisture Content on the Thermal Conductivity of Moss and Organic Soil Horizons From Black Spruce Ecosystems in Interior Alaska. <i>Soil Science</i> , 2009 , 174, 646-651	0.9	118
79	Cumulative geocological effects of 62 years of infrastructure and climate change in ice-rich permafrost landscapes, Prudhoe Bay Oilfield, Alaska. <i>Global Change Biology</i> , 2014 , 20, 1211-24	11.4	114
78	Changing permafrost in a warming world and feedbacks to the Earth system. <i>Environmental Research Letters</i> , 2016 , 11, 040201	6.2	107
77	Remote sensing quantifies widespread abundance of permafrost region disturbances across the Arctic and Subarctic. <i>Nature Communications</i> , 2018 , 9, 5423	17.4	107
76	Vulnerability and Feedbacks of Permafrost to Climate Change. <i>Eos</i> , 2011 , 92, 73-74	1.5	106
75	An evaluation of deep soil configurations in the CLM3 for improved representation of permafrost. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	102
74	Climate Change Drives Widespread and Rapid Thermokarst Development in Very Cold Permafrost in the Canadian High Arctic. <i>Geophysical Research Letters</i> , 2019 , 46, 6681-6689	4.9	98
73	A model for regional-scale estimation of temporal and spatial variability of active layer thickness and mean annual ground temperatures. <i>Permafrost and Periglacial Processes</i> , 2003 , 14, 125-139	4.2	86
72	Variability in the sensitivity among model simulations of permafrost and carbon dynamics in the permafrost region between 1960 and 2009. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 1015-1037	5.9	83
71	High-resolution mapping of ecosystem carbon storage and potential effects of permafrost thaw in periglacial terrain, European Russian Arctic. <i>Journal of Geophysical Research</i> , 2011 , 116,		82
70	Arctic patterned-ground ecosystems: A synthesis of field studies and models along a North American Arctic Transect. <i>Journal of Geophysical Research</i> , 2008 , 113,		78
69	Cryogenesis and soil formation along a bioclimate gradient in Arctic North America. <i>Journal of Geophysical Research</i> , 2008 , 113,		76
68	Long-Term Release of Carbon Dioxide from Arctic Tundra Ecosystems in Alaska. <i>Ecosystems</i> , 2017 , 20, 960-974	3.9	74
67	Report from the International Permafrost Association: state of permafrost in the first decade of the 21st century. <i>Permafrost and Periglacial Processes</i> , 2008 , 19, 255-260	4.2	72
66	The new database of the Global Terrestrial Network for Permafrost (GTN-P). <i>Earth System Science Data</i> , 2015 , 7, 245-259	10.5	70
65	Freezing of the Active Layer on the Coastal Plain of the Alaskan Arctic. <i>Permafrost and Periglacial Processes</i> , 1997 , 8, 23-44	4.2	67
64	Thermokarst rates intensify due to climate change and forest fragmentation in an Alaskan boreal forest lowland. <i>Global Change Biology</i> , 2016 , 22, 816-29	11.4	58
63	Difference between near-surface air, land surface and ground surface temperatures and their influences on the frozen ground on the Qinghai-Tibet Plateau. <i>Geoderma</i> , 2018 , 312, 74-85	6.7	57

62	Modeling the role of preferential snow accumulation in through talik development and hillslope groundwater flow in a transitional permafrost landscape. <i>Environmental Research Letters</i> , 2018 , 13, 105006	6.2	54
61	Characteristics of Changing Permafrost Temperatures in the Alaskan Arctic, U.S.A.. <i>Arctic and Alpine Research</i> , 1996 , 28, 267		53
60	Threshold sensitivity of shallow Arctic lakes and sublake permafrost to changing winter climate. <i>Geophysical Research Letters</i> , 2016 , 43, 6358-6365	4.9	50
59	Using field observations to inform thermal hydrology models of permafrost dynamics with ATS (v0.83). <i>Geoscientific Model Development</i> , 2015 , 8, 2701-2722	6.3	44
58	Applicability of the ecosystem type approach to model permafrost dynamics across the Alaska North Slope. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017 , 122, 50-75	3.8	43
57	Simulating soil freeze/thaw dynamics with an improved pan-Arctic water balance model. <i>Journal of Advances in Modeling Earth Systems</i> , 2013 , 5, 659-675	7.1	37
56	Large CO ₂ and CH ₄ emissions from polygonal tundra during spring thaw in northern Alaska. <i>Geophysical Research Letters</i> , 2017 , 44, 504-513	4.9	36
55	Detecting the permafrost carbon feedback: talik formation and increased cold-season respiration as precursors to sink-to-source transitions. <i>Cryosphere</i> , 2018 , 12, 123-144	5.5	36
54	Evidence for a cyclic variation of permafrost temperatures in northern alaska. <i>Permafrost and Periglacial Processes</i> , 1994 , 5, 137-144	4.2	35
53	The n-factor of nonsorted circles along a climate gradient in Arctic Alaska. <i>Permafrost and Periglacial Processes</i> , 2006 , 17, 279-289	4.2	33
52	Elevation-dependent thermal regime and dynamics of frozen ground in the Bayan Har Mountains, northeastern Qinghai-Tibet Plateau, southwest China. <i>Permafrost and Periglacial Processes</i> , 2018 , 29, 257-270	4.2	33
51	LGM permafrost distribution: how well can the latest PMIP multi-model ensembles perform reconstruction?. <i>Climate of the Past</i> , 2013 , 9, 1697-1714	3.9	32
50	Coincident aboveground and belowground autonomous monitoring to quantify covariability in permafrost, soil, and vegetation properties in Arctic tundra. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 1321-1342	3.7	31
49	Circumpolar permafrost maps and geohazard indices for near-future infrastructure risk assessments. <i>Scientific Data</i> , 2019 , 6, 190037	8.2	31
48	Characteristics of Water-Heat Exchanges and Inconsistent Surface Temperature Changes at an Elevational Permafrost Site on the Qinghai-Tibet Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 10,057	4.4	30
47	Permafrost degradation risk zone assessment using simulation models. <i>Cryosphere</i> , 2011 , 5, 1043-1056	5.5	30
46	Geoelectric observations of the degradation of nearshore submarine permafrost at Barrow (Alaskan Beaufort Sea). <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		29
45	Remote sensing and field-based mapping of permafrost distribution along the Alaska Highway corridor, interior Alaska. <i>Permafrost and Periglacial Processes</i> , 2010 , 21, 271-281	4.2	29

44	Using in-situ temperature measurements to estimate saturated soil thermal properties by solving a sequence of optimization problems. <i>Cryosphere</i> , 2007 , 1, 41-58	5.5	29
43	Factors Contributing to Anthrax Outbreaks in the Circumpolar North. <i>EcoHealth</i> , 2020 , 17, 174-180	3.1	29
42	Modeling the spatiotemporal variability in subsurface thermal regimes across a low-relief polygonal tundra landscape. <i>Cryosphere</i> , 2016 , 10, 2241-2274	5.5	28
41	Presence of rapidly degrading permafrost plateaus in south-central Alaska. <i>Cryosphere</i> , 2016 , 10, 2673-2692	5.5	27
40	Global Terrestrial Network for Permafrost (GTNet-P): permafrost monitoring contributing to global climate observations 2000 ,		26
39	Effect of soil property uncertainties on permafrost thaw projections: a calibration-constrained analysis. <i>Cryosphere</i> , 2016 , 10, 341-358	5.5	25
38	Scaling-up permafrost thermal measurements in western Alaska using an ecotype approach. <i>Cryosphere</i> , 2016 , 10, 2517-2532	5.5	24
37	Continuously amplified warming in the Alaskan Arctic: Implications for estimating global warming hiatus. <i>Geophysical Research Letters</i> , 2017 , 44, 9029-9038	4.9	23
36	Changes in precipitation and air temperature contribute comparably to permafrost degradation in a warmer climate. <i>Environmental Research Letters</i> , 2021 , 16, 024008	6.2	19
35	Modeling Long-Term Permafrost Degradation. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018 , 123, 1756-1771	3.8	19
34	Isotopic identification of soil and permafrost nitrate sources in an Arctic tundra ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 1000-1017	3.7	18
33	Influence of the physical terrestrial Arctic in the eco-climate system 2013 , 23, 1778-97		16
32	The changing thermal state of permafrost. <i>Nature Reviews Earth & Environment</i> , 2022 , 3, 10-23	30.2	16
31	A synthesis dataset of permafrost-affected soil thermal conditions for Alaska, USA. <i>Earth System Science Data</i> , 2018 , 10, 2311-2328	10.5	14
30	Impacts of microtopographic snow redistribution and lateral subsurface processes on hydrologic and thermal states in an Arctic polygonal ground ecosystem: a case study using ELM-3D v1.0. <i>Geoscientific Model Development</i> , 2018 , 11, 61-76	6.3	13
29	Evaluation of LPM permafrost distribution in NE Asia reconstructed and downscaled from GCM simulations. <i>Boreas</i> , 2014 , 43, 733-749	2.4	12
28	Thermally-Conditioned Paleo-Permafrost Variations from Global Climate Modeling. <i>Scientific Online Letters on the Atmosphere</i> , 2009 , 5, 101-104	2.1	11
27	Consequences of permafrost degradation for Arctic infrastructure [bridging the model gap between regional and engineering scales. <i>Cryosphere</i> , 2021 , 15, 2451-2471	5.5	11

26	Late Quaternary Permafrost Distributions Downscaled for South America: Examinations of GCM-based Maps with Observations. <i>Permafrost and Periglacial Processes</i> , 2016 , 27, 43-55	4.2	10
25	A distributed temperature profiling method for assessing spatial variability in ground temperatures in a discontinuous permafrost region of Alaska. <i>Cryosphere</i> , 2019 , 13, 2853-2867	5.5	10
24	Degrading permafrost and its impacts. <i>Advances in Climate Change Research</i> , 2021 , 12, 1-5	4.1	9
23	Prevention and control measures for coastal erosion in northern high-latitude communities: a systematic review based on Alaskan case studies. <i>Environmental Research Letters</i> , 2020 , 15, 093002	6.2	8
22	Modeling Present and Future Permafrost Distribution at the Seward Peninsula, Alaska. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2019JF005355	3.8	6
21	Using Ground Penetrating Radar for Permafrost Monitoring from 2015-2017 at CALM Sites in the Pechora River Delta. <i>Remote Sensing</i> , 2021 , 13, 3271	5	6
20	Landsat-based lake distribution and changes in western Alaska permafrost regions between the 1970s and 2010s. <i>Environmental Research Letters</i> , 2021 , 16, 025006	6.2	6
19	Using field observations to inform thermal hydrology models of permafrost dynamics with ATS (v0.83) 2015 ,		5
18	Modelling the impacts of projected sea ice decline on the low atmosphere and near-surface permafrost on the North Slope of Alaska. <i>International Journal of Climatology</i> , 2018 , 38, 5491-5504	3.5	5
17	35 Years of Vegetation and Lake Dynamics in the Pechora Catchment, Russian European Arctic. <i>Remote Sensing</i> , 2020 , 12, 1863	5	4
16	Effect of soil property uncertainties on permafrost thaw projections: a calibration-constrained analysis		4
15	Geophysical Observations of Taliks Below Drained Lake Basins on the Arctic Coastal Plain of Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB020889	3.6	4
14	The Global Terrestrial Network for Permafrost Database: metadata statistics and prospective analysis on future permafrost temperature and active layer depth monitoring site distribution		3
13	Projecting Permafrost Thaw of Sub-Arctic Tundra With a Thermodynamic Model Calibrated to Site Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG006218	3.7	3
12	Co-producing knowledge: the Integrated Ecosystem Model for resource management in Arctic Alaska. <i>Frontiers in Ecology and the Environment</i> , 2020 , 18, 447-455	5.5	2
11	Consequences of permafrost degradation for Arctic infrastructure [bridging the model gap between regional and engineering scales		2
10	Attribution of historical near-surface permafrost degradation to anthropogenic greenhouse gas warming. <i>Environmental Research Letters</i> , 2020 , 15, 084040	6.2	2
9	Tundra Underlain By Thawing Permafrost Persistently Emits Carbon to the Atmosphere Over 15 Years of Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG006044	3.7	2

8	LGM permafrost distribution: how well can the latest PMIP multi-model ensembles reconstruct?		1
7	Reply to the comment: Northern Hemisphere permafrost extent: Drylands, glaciers and sea floor. <i>Earth-Science Reviews</i> , 2020 , 203, 103036	10.2	1
6	Scientific Cooperation: Supporting Circumpolar Permafrost Monitoring and Data Sharing. <i>Land</i> , 2021 , 10, 590	3.5	1
5	Report from the International Permafrost Association. <i>Permafrost and Periglacial Processes</i> , 2016 , 27, 316-319	4.2	1
4	Water balance response of permafrost-affected watersheds to changes in air temperatures. <i>Environmental Research Letters</i> , 2021 , 16, 084054	6.2	0
3	Understanding Effects of Permafrost Degradation and Coastal Erosion on Civil Infrastructure in Arctic Coastal Villages: A Community Survey and Knowledge Co-Production. <i>Journal of Marine Science and Engineering</i> , 2022 , 10, 422	2.4	0
2	Spatial and Temporal Variability of Permafrost in the Western Part of the Russian Arctic. <i>Energies</i> , 2022 , 15, 2311	3.1	0
1	Synthesis of physical processes of permafrost degradation and geophysical and geomechanical properties of permafrost. <i>Cold Regions Science and Technology</i> , 2022 , 198, 103522	3.8	0