

# Sebastian Wetterich

## List of Publications by Year in descending order

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88  
papers

3,808  
citations

117625

34  
h-index

149698

56  
g-index

117  
all docs

117  
docs citations

117  
times ranked

2751  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Arctic Coastal Dynamics Database: A New Classification Scheme and Statistics on Arctic Permafrost Coastlines. <i>Estuaries and Coasts</i> , 2012, 35, 383-400.	2.2	298
2	The deep permafrost carbon pool of the Yedoma region in Siberia and Alaska. <i>Geophysical Research Letters</i> , 2013, 40, 6165-6170.	4.0	187
3	Sedimentary characteristics and origin of the Late Pleistocene Ice Complex on north-east Siberian Arctic coastal lowlands and islands – A review. <i>Quaternary International</i> , 2011, 241, 3-25.	1.5	182
4	Fossil organic matter characteristics in permafrost deposits of the northeast Siberian Arctic. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	147
5	PERMAFROST AND PERIGLACIAL FEATURES   Yedoma: Late Pleistocene Ice-Rich Syngenetic Permafrost of Beringia. , 2013, , 542-552.		139
6	Vegetation and climate history in the Laptev Sea region (Arctic Siberia) during Late Quaternary inferred from pollen records. <i>Quaternary Science Reviews</i> , 2011, 30, 2182-2199.	3.0	128
7	Palaeoenvironmental dynamics inferred from late Quaternary permafrost deposits on Kurungnakh Island, Lena Delta, Northeast Siberia, Russia. <i>Quaternary Science Reviews</i> , 2008, 27, 1523-1540.	3.0	119
8	Grain-size properties and organic-carbon stock of Yedoma Ice Complex permafrost from the Kolyma lowland, northeastern Siberia. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	96
9	Organic-matter quality of deep permafrost carbon – a study from Arctic Siberia. <i>Biogeosciences</i> , 2015, 12, 2227-2245.	3.3	94
10	Evolution of thermokarst in East Siberian ice-rich permafrost: A case study. <i>Geomorphology</i> , 2013, 201, 363-379.	2.6	92
11	Paleontological records indicate the occurrence of open woodlands in a dry inland climate at the present-day Arctic coast in western Beringia during the Last Interglacial. <i>Quaternary Science Reviews</i> , 2011, 30, 2134-2159.	3.0	88
12	Eemian and Late Glacial/Holocene palaeoenvironmental records from permafrost sequences at the Dmitry Laptev Strait (NE Siberia, Russia). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2009, 279, 73-95.	2.3	80
13	Coastal changes in the Arctic. <i>Geological Society Special Publication</i> , 2014, 388, 103-129.	1.3	79
14	Last Glacial Maximum records in permafrost of the East Siberian Arctic. <i>Quaternary Science Reviews</i> , 2011, 30, 3139-3151.	3.0	77
15	Ice Complex formation in arctic East Siberia during the MIS3 Interstadial. <i>Quaternary Science Reviews</i> , 2014, 84, 39-55.	3.0	75
16	Permafrost evidence for severe winter cooling during the Younger Dryas in northern Alaska. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	70
17	Eastern Beringia and beyond: Late Wisconsinan and Holocene landscape dynamics along the Yukon Coastal Plain, Canada. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 319-320, 28-45.	2.3	69
18	Arctic freshwater ostracods from modern periglacial environments in the Lena River Delta (Siberian) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i> <i>Paleolimnology</i> , 2008, 39, 427-449.	1.6	63

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19	Recent Progress Regarding Permafrost Coasts. <i>Permafrost and Periglacial Processes</i> , 2013, 24, 120-130.	3.4	62
20	Chironomid-based inference models for estimating mean July air temperature and water depth from lakes in Yakutia, northeastern Russia. <i>Journal of Paleolimnology</i> , 2011, 45, 57-71.	1.6	61
21	Lateglacial and Holocene isotopic and environmental history of northern coastal Alaska – Results from a buried ice-wedge system at Barrow. <i>Quaternary Science Reviews</i> , 2010, 29, 3720-3735.	3.0	58
22	Methane oxidation following submarine permafrost degradation: Measurements from a central Laptev Sea shelf borehole. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 965-978.	3.0	55
23	Origin and characteristics of massive ground ice on Herschel Island (western Canadian Arctic) as revealed by stable water isotope and Hydrochemical signatures. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 26-38.	3.4	54
24	Palaeoclimatic information from stable water isotopes of Holocene ice wedges on the Dmitrii Laptev Strait, northeast Siberia, Russia. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 84-100.	3.4	53
25	Late Quaternary paleoenvironmental records from the western Lena Delta, Arctic Siberia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 299, 175-196.	2.3	51
26	Circum-Arctic Map of the Yedoma Permafrost Domain. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	49
27	Ice wedges as archives of winter paleoclimate: A review. <i>Permafrost and Periglacial Processes</i> , 2018, 29, 199-209.	3.4	47
28	Permafrost Thaw and Liberation of Inorganic Nitrogen in Eastern Siberia. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 605-618.	3.4	43
29	Freshwater Ostracodes in Quaternary Permafrost Deposits in the Siberian Arctic. <i>Journal of Paleolimnology</i> , 2005, 34, 363-376.	1.6	40
30	Present-day variability and Holocene dynamics of permafrost-affected lakes in central Yakutia (Eastern) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.0	39
31	Coastal dynamics and submarine permafrost in shallow water of the central Laptev Sea, East Siberia. <i>Cryosphere</i> , 2016, 10, 1449-1462.	3.9	39
32	Holocene ice-wedge polygon development in northern Yukon permafrost peatlands (Canada). <i>Quaternary Science Reviews</i> , 2016, 147, 279-297.	3.0	39
33	Rapid Fluvio-Thermal Erosion of a Yedoma Permafrost Cliff in the Lena River Delta. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	38
34	Geoelectric observations of the degradation of nearshore submarine permafrost at Barrow (Alaskan) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.3	37
35	Ice Complex permafrost of MIS5 age in the Dmitry Laptev Strait coastal region (East Siberian Arctic). <i>Quaternary Science Reviews</i> , 2016, 147, 298-311.	3.0	37
36	Ground-ice stable isotopes and cryostratigraphy reflect late Quaternary palaeoclimate in the Northeast Siberian Arctic (Oyogos Yar coast, Dmitry Laptev Strait). <i>Climate of the Past</i> , 2017, 13, 587-611.	3.4	36

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37	Past climate and continentality inferred from ice wedges at Batagay megaslump in the Northern Hemisphere's most continental region, Yana Highlands, interior Yakutia. <i>Climate of the Past</i> , 2019, 15, 1443-1461.	3.4	35
38	Yedoma Ice Complex of the Buor Khaya Peninsula (southern Laptev Sea). <i>Biogeosciences</i> , 2017, 14, 1261-1283.	3.3	33
39	Late Quaternary environmental and landscape dynamics revealed by a pingo sequence on the northern Seward Peninsula, Alaska. <i>Quaternary Science Reviews</i> , 2012, 39, 26-44.	3.0	32
40	Late Quaternary paleoenvironmental records from the Chatanika River valley near Fairbanks (Alaska). <i>Quaternary Science Reviews</i> , 2016, 147, 259-278.	3.0	32
41	Diatoms of modern bottom sediments in Siberian arctic. <i>Contemporary Problems of Ecology</i> , 2012, 5, 413-422.	0.7	30
42	Vulnerability of the North Water ecosystem to climate change. <i>Nature Communications</i> , 2021, 12, 4475.	12.8	30
43	Evaporation effects as reflected in freshwaters and ostracod calcite from modern environments in Central and Northeast Yakutia (East Siberia, Russia). <i>Hydrobiologia</i> , 2008, 614, 171-195.	2.0	28
44	Rapid thermokarst evolution during the mid-Holocene in Central Yakutia, Russia. <i>Holocene</i> , 2017, 27, 1899-1913.	1.7	28
45	The genesis of Yedoma Ice Complex permafrost – grain-size endmember modeling analysis from Siberia and Alaska. <i>E&amp;G Quaternary Science Journal</i> , 2020, 69, 33-53.	0.7	28
46	Mid-Wisconsin to Holocene Permafrost and Landscape Dynamics based on a Drained Lake Basin Core from the Northern Seward Peninsula, Northwest Alaska. <i>Permafrost and Periglacial Processes</i> , 2016, 27, 56-75.	3.4	26
47	Holocene thermokarst and pingo development in the Kolyma Lowland (NE Siberia). <i>Permafrost and Periglacial Processes</i> , 2018, 29, 182-198.	3.4	26
48	Ice Complex formation on Bol'shoy Lyakhovskiy Island (New Siberian Archipelago, East Siberian Arctic) since about 200 ka. <i>Quaternary Research</i> , 2019, 92, 530-548.	1.7	26
49	The sensitivity of diatom taxa from Yakutian lakes (north-eastern Siberia) to electrical conductivity and other environmental variables. <i>Polar Research</i> , 2018, 37, 1485625.	1.6	25
50	Evidence of multiple thermokarst lake generations from an 11,800-year-old permafrost core on the northern Seward Peninsula, Alaska. <i>Boreas</i> , 2016, 45, 584-603.	2.4	24
51	A multimethod dating study of ancient permafrost, Batagay megaslump, east Siberia. <i>Quaternary Research</i> , 2022, 105, 1-22.	1.7	24
52	Microbial lipid signatures and substrate potential of organic matter in permafrost deposits: Implications for future greenhouse gas production. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2652-2666.	3.0	23
53	Sea-level evolution of the Laptev Sea and the East Siberian Sea since the last glacial maximum. <i>Arktos</i> , 2015, 1, 1.	1.0	22
54	Northeast Siberian ice wedges confirm Arctic winter warming over the past two millennia. <i>Holocene</i> , 2017, 27, 1789-1796.	1.7	22

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55	The history of seabird colonies and the North Water ecosystem: Contributions from palaeoecological and archaeological evidence. <i>Ambio</i> , 2018, 47, 175-192.	5.5	21
56	Periglacial landscape dynamics in the western Canadian Arctic: Results from a thermokarst lake record on a push moraine (Herschel Island, Yukon Territory). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 381-382, 15-25.	2.3	20
57	Testate amoebae and environmental features of polygon tundra in the Indigirka lowland (East Siberia). <i>Polar Biology</i> , 2013, 36, 857-870.	1.2	20
58	Ratio of $^{36}\text{Cl}/\text{Cl}$ in ground ice of east Siberia and its application for chronometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	19
59	Late glacial and Holocene sedimentation, vegetation, and climate history from easternmost Beringia (northern Yukon Territory, Canada). <i>Quaternary Research</i> , 2012, 78, 549-560.	1.7	18
60	Regional environmental change versus local signal preservation in Holocene thermokarst lake sediments: A case study from Herschel Island, Yukon (Canada). <i>Journal of Paleolimnology</i> , 2018, 60, 77-96.	1.6	18
61	The mystery of Bunge Land (New Siberian Archipelago): implications for its formation based on palaeoenvironmental records, geomorphology, and remote sensing. <i>Quaternary Science Reviews</i> , 2010, 29, 3598-3614.	3.0	17
62	Northeast Siberian Permafrost Ice-Wedge Stable Isotopes Depict Pronounced Last Glacial Maximum Winter Cooling. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092087.	4.0	17
63	The cryostratigraphy of the Yedoma cliff of Sobo-Sise Island (Lena delta) reveals permafrost dynamics in the central Laptev Sea coastal region during the last 52‰kyr. <i>Cryosphere</i> , 2020, 14, 4525-4551.	3.9	17
64	Impacts of shore expansion and catchment characteristics on lacustrine thermokarst records in permafrost lowlands, Alaska Arctic Coastal Plain. <i>Arktos</i> , 2016, 2, 1.	1.0	16
65	Climatic, geomorphologic and hydrologic perturbations as drivers for mid- to late Holocene development of ice-wedge polygons in the western Canadian Arctic. <i>Permafrost and Periglacial Processes</i> , 2018, 29, 164-181.	3.4	15
66	Diatom records and tephra mineralogy in pingo deposits of Seward Peninsula, Alaska. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 479, 1-15.	2.3	14
67	Freshwater ostracods (Crustacea) and environmental variability of polygon ponds in the tundra of the Indigirka Lowland, north-east Siberia. <i>Polar Research</i> , 2016, 35, 25225.	1.6	12
68	3D ground-penetrating radar imaging of ice complex deposits in northern East Siberia. <i>Geophysics</i> , 2016, 81, WA195-WA202.	2.6	12
69	Geochemical signatures of pingo ice and its origin in Grøndalen, west Spitsbergen. <i>Cryosphere</i> , 2019, 13, 3155-3169.	3.9	12
70	River flooding as a driver of polygon dynamics: modern vegetation data and a millennial peat record from the Anabar River lowlands (Arctic Siberia). <i>Biogeosciences</i> , 2013, 10, 5703-5728.	3.3	11
71	Reconstruction of the history of a thermokarst lake in the Mid-Holocene based on an analysis of subfossil Cladocera (Siberia, Central Yakutia). <i>Contemporary Problems of Ecology</i> , 2017, 10, 423-430.	0.7	9
72	Modern and fossil diatom assemblages from Bolshoy Lyakhovsky Island (New Siberian Archipelago). <i>Tj ETQq0 0,0 rgBT /Qverlock 10</i>	0,7	9

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73	Geocryological and Hydrogeological Conditions of the Western Part of Nordenskiöld Land (Spitsbergen Archipelago). <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2020, 56, 1376-1400.	0.9	9
74	Paleo-Ecology of the Yedoma Ice Complex on Sobo-Sise Island (Eastern Lena Delta, Siberian Arctic). <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	8
75	Late Holocene ice-wedge polygon dynamics in northeastern Siberian coastal lowlands. <i>Arctic, Antarctic, and Alpine Research</i> , 2018, 50, .	1.1	7
76	Geochemistry and Weathering Indices of Yedoma and Alas Deposits beneath Thermokarst Lakes in Central Yakutia. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	7
77	A new local meteoric water line for Inuvik (NT, Canada). <i>Earth System Science Data</i> , 2022, 14, 57-63.	9.9	7
78	Attempts to understand potential deficiencies in chemical procedures for AMS. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 456, 186-192.	1.4	5
79	Sub-Surface Carbon Stocks in Northern Taiga Landscapes Exposed in the Batagay Megaslump, Yana Upland, Yakutia. <i>Land</i> , 2020, 9, 305.	2.9	5
80	Heavy and Light Mineral Association of Late Quaternary Permafrost Deposits in Northeastern Siberia. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	5
81	Stable isotope signatures of Holocene syngenetic permafrost trace seabird presence in the Thule District (NW Greenland). <i>Biogeosciences</i> , 2019, 16, 4261-4275.	3.3	4
82	Bacterial Communities of Frozen Quaternary Sediments of Marine Origin on the Coast of Western Spitsbergen. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2021, 57, 895-917.	0.9	4
83	Pingo drilling reveals sodium chloride-dominated massive ice in Grøndalen, Spitsbergen. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 572-586.	3.4	3
84	Organic matter characteristics of a rapidly eroding permafrost cliff in NE Siberia (Lena Delta, Laptev) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	8.3	3
85	Seasonal Impact on 3D GPR Performance for Surveying Yedoma Ice Complex Deposits. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	3
86	Distribution of pingos on Svalbard. <i>Geomorphology</i> , 2022, 412, 108326.	2.6	3
87	Mammoth Fauna Remains From Late Pleistocene Deposits of the Dmitry Laptev Strait South Coast (Northern Yakutia, Russia). <i>Frontiers in Earth Science</i> , 0, 10, .	1.8	2
88	Archaeal Communities of Frozen Quaternary Sediments of Marine Origin on the Coast of Western Spitsbergen. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2021, 57, 1254-1270.	0.9	1