

Jarle Werner Bjerke

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

4,800
citations

126708

33
h-index

98622

67
g-index

73
all docs

73
docs citations

73
times ranked

6114
citing authors

#	ARTICLE	IF	CITATIONS
1	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	4.2	113
2	Identifying climate thresholds for dominant natural vegetation types at the global scale using machine learning: Average climate versus extremes. <i>Global Change Biology</i> , 2022, 28, 3557-3579.	4.2	20
3	Winters are changing: snow effects on Arctic and alpine tundra ecosystems. <i>Arctic Science</i> , 2022, 8, 572-608.	0.9	43
4	Springtime grazing by Arctic-breeding geese reduces first- and second-harvest yields on sub-Arctic agricultural grasslands. <i>Science of the Total Environment</i> , 2021, 793, 148619.	3.9	11
5	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). <i>Methods in Ecology and Evolution</i> , 2020, 11, 22-37.	2.2	68
6	Characteristics, drivers and feedbacks of global greening. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 14-27.	12.2	889
7	Development of new metrics to assess and quantify climatic drivers of extreme event driven Arctic browning. <i>Remote Sensing of Environment</i> , 2020, 243, 111749.	4.6	11
8	Monitoring Winter Stress Vulnerability of High-Latitude Understorey Vegetation Using Intraspecific Trait Variability and Remote Sensing Approaches. <i>Sensors</i> , 2020, 20, 2102.	2.1	4
9	Complexity revealed in the greening of the Arctic. <i>Nature Climate Change</i> , 2020, 10, 106-117.	8.1	447
10	Extreme event impacts on CO ₂ fluxes across a range of high latitude, shrub-dominated ecosystems. <i>Environmental Research Letters</i> , 2020, 15, 104084.	2.2	7
11	Legacies of Historical Exploitation of Natural Resources Are More Important Than Summer Warming for Recent Biomass Increases in a Boreal Arctic Transition Region. <i>Ecosystems</i> , 2019, 22, 1512-1529.	1.6	6
12	Arctic browning: Impacts of extreme climatic events on heathland ecosystem CO ₂ fluxes. <i>Global Change Biology</i> , 2019, 25, 489-503.	4.2	56
13	Vulnerability and resilience of the carbon exchange of a subarctic peatland to an extreme winter event. <i>Environmental Research Letters</i> , 2018, 13, 065009.	2.2	13
14	Using moss and lichens in biomonitoring of heavy-metal contamination of forest areas in southern and north-eastern Poland. <i>Science of the Total Environment</i> , 2018, 627, 438-449.	3.9	65
15	Contrasting survival and physiological responses of sub-Arctic plant types to extreme winter warming and nitrogen. <i>Planta</i> , 2018, 247, 635-648.	1.6	17
16	Impact of Multiple Ecological Stressors on a Sub-Arctic Ecosystem: No Interaction Between Extreme Winter Warming Events, Nitrogen Addition and Grazing. <i>Frontiers in Plant Science</i> , 2018, 9, 1787.	1.7	6
17	State of the Climate in 2017. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, Si-S310.	1.7	160
18	Stress-induced secondary leaves of a boreal deciduous shrub (<i>Vaccinium myrtillus</i>) overwinter then regain activity the following growing season. <i>Nordic Journal of Botany</i> , 2018, 36, e01894.	0.2	4

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19	Alpine garden plants from six continents show high vulnerability to ice encasement. Norsk Geografisk Tidsskrift, 2018, 72, 57-64.	0.3	3
20	Feasibility of hyperspectral vegetation indices for the detection of chlorophyll concentration in three high Arctic plants: <i>Salix polaris</i> , <i>Bistorta vivipara</i> , and <i>Dryas octopetala</i> . Acta Societatis Botanicorum Poloniae, 2018, 87, .	0.8	16
21	Persistent reduction of segment growth and photosynthesis in a widespread and important sub-Arctic moss species after cessation of three years of experimental winter warming. Functional Ecology, 2017, 31, 127-134.	1.7	12
22	Understanding the drivers of extensive plant damage in boreal and Arctic ecosystems: Insights from field surveys in the aftermath of damage. Science of the Total Environment, 2017, 599-600, 1965-1976.	3.9	74
23	Yield reductions in agricultural grasslands in Norway after springtime grazing by pink-footed geese. Journal of Applied Ecology, 2017, 54, 1836-1846.	1.9	9
24	The Origin of Heavy Metals and Radionuclides Accumulated in the Soil and Biota Samples Collected in Svalbard, Near Longyearbyen. Ecological Chemistry and Engineering S, 2017, 24, 223-238.	0.3	16
25	Combining modelling tools to evaluate a goose management scheme. Ambio, 2017, 46, 210-223.	2.8	10
26	Intraspecific Differences in Spectral Reflectance Curves as Indicators of Reduced Vitality in High-Arctic Plants. Remote Sensing, 2017, 9, 1289.	1.8	33
27	Snow season variability in a boreal-Arctic transition area monitored by MODIS data. Environmental Research Letters, 2016, 11, 125005.	2.2	10
28	Arctic browning: extreme events and trends reversing arctic greening. Global Change Biology, 2016, 22, 2960-2962.	4.2	187
29	175 years of adaptation: North Scandinavian Sámi reindeer herding between government policies and winter climate variability (1835-2010). Journal of Forest Economics, 2016, 24, 186-204.	0.1	27
30	Changes in Winter Warming Events in the Nordic Arctic Region. Journal of Climate, 2016, 29, 6223-6244.	1.2	109
31	Changing Arctic snow cover: A review of recent developments and assessment of future needs for observations, modelling, and impacts. Ambio, 2016, 45, 516-537.	2.8	154
32	Impacts of snow season on ground-ice accumulation, soil frost and primary productivity in a grassland of sub-Arctic Norway. Environmental Research Letters, 2015, 10, 095007.	2.2	31
33	Evolution of complex symbiotic relationships in a morphologically derived family of lichen-forming fungi. New Phytologist, 2015, 208, 1217-1226.	3.5	105
34	Climatic and biotic extreme events moderate long-term responses of above- and belowground sub-Arctic heathland communities to climate change. Global Change Biology, 2015, 21, 4063-4075.	4.2	45
35	The Use Of Mosses In Biomonitoring Of Selected Areas In Poland And Spitsbergen In The Years From 1975 To 2014. Ecological Chemistry and Engineering S, 2015, 22, 201-218.	0.3	18
36	Reduced dairy grassland yields in central Norway after a single springtime grazing event by pink-footed geese. Grass and Forage Science, 2014, 69, 129-139.	1.2	23

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37	Record-low primary productivity and high plant damage in the Nordic Arctic Region in 2012 caused by multiple weather events and pest outbreaks. <i>Environmental Research Letters</i> , 2014, 9, 084006.	2.2	108
38	Parmelioid lichens (Parmeliaceae) in southernmost South America. <i>Phytotaxa</i> , 2014, 173, 1.	0.1	8
39	Rapid photosynthetic recovery of a snow-covered feather moss and <i>Peltigera</i> lichen during sub-Arctic midwinter warming. <i>Plant Ecology and Diversity</i> , 2013, 6, 383-392.	1.0	14
40	Ecosystem change and stability over multiple decades in the Swedish subarctic: complex processes and multiple drivers. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120488.	1.8	140
41	Ecosystem Response to Climatic Change: The Importance of the Cold Season. <i>Ambio</i> , 2012, 41, 246-255.	2.8	55
42	Rapid recovery of recently overexploited winter grazing pastures for reindeer in northern Norway. <i>Fungal Ecology</i> , 2012, 5, 3-15.	0.7	33
43	Extreme winter warming events more negatively impact small rather than large soil fauna: shift in community composition explained by traits not taxa. <i>Global Change Biology</i> , 2012, 18, 1152-1162.	4.2	172
44	Vegetation recovery following extreme winter warming events in the sub-Arctic estimated using NDVI from remote sensing and handheld passive proximal sensors. <i>Environmental and Experimental Botany</i> , 2012, 81, 18-25.	2.0	39
45	The Nature Index: A General Framework for Synthesizing Knowledge on the State of Biodiversity. <i>PLoS ONE</i> , 2011, 6, e18930.	1.1	39
46	SÅmi traditional ecological knowledge as a guide to science: snow, ice and reindeer pasture facing climate change. <i>Polar Record</i> , 2011, 47, 202-217.	0.4	86
47	Impacts of multiple extreme winter warming events on sub-Arctic heathland: phenology, reproduction, growth, and CO ₂ flux responses. <i>Global Change Biology</i> , 2011, 17, 2817-2830.	4.2	163
48	Contrasting sensitivity to extreme winter warming events of dominant sub-Arctic heathland bryophyte and lichen species. <i>Journal of Ecology</i> , 2011, 99, 1481-1488.	1.9	69
49	Winter climate change: Ice encapsulation at mild subfreezing temperatures kills freeze-tolerant lichens. <i>Environmental and Experimental Botany</i> , 2011, 72, 404-408.	2.0	54
50	Impacts of extreme winter warming events on litter decomposition in a sub-Arctic heathland. <i>Soil Biology and Biochemistry</i> , 2010, 42, 611-617.	4.2	68
51	Impacts of extreme winter warming events on plant physiology in a sub-Arctic heath community. <i>Physiologia Plantarum</i> , 2010, 140, 128-140.	2.6	90
52	Winter warming events damage sub-Arctic vegetation: consistent evidence from an experimental manipulation and a natural event. <i>Journal of Ecology</i> , 2009, 97, 1408-1415.	1.9	247
53	Ice encapsulation protects rather than disturbs the freezing lichen. <i>Plant Biology</i> , 2009, 11, 227-235.	1.8	16
54	Impacts of extreme winter warming in the sub-Arctic: growing season responses of dwarf shrub heathland. <i>Global Change Biology</i> , 2008, 14, 2603-2612.	4.2	158

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55	New species and new records of <i>Menegazzia</i> (Parmeliaceae, lichenized ascomycetes) from Malaysia and Indonesia. <i>Botanical Journal of the Linnean Society</i> , 2007, 153, 489-499.	0.8	5
56	Effects of enhanced UV-B radiation on nitrogen fixation in arctic ecosystems. , 2006, , 109-120.		2
57	The lichen genus <i>Usnea</i> in Norway north of the Arctic Circle: biogeography and ecology. <i>Nova Hedwigia</i> , 2006, 83, 293-310.	0.2	6
58	Effects of enhanced UV-B radiation on nitrogen fixation in arctic ecosystems. <i>Plant Ecology</i> , 2006, 182, 109.	0.7	10
59	<i>Pannaria isabellina</i> (Vain.) comb. nov., a remarkable lichen species from Chile. <i>Lichenologist</i> , 2005, 37, 47-54.	0.5	16
60	Seasonal trends in usnic acid concentrations of Arctic, alpine and Patagonian populations of the lichen. <i>Phytochemistry</i> , 2005, 66, 337-344.	1.4	77
61	Effects of enhanced UV-B radiation in the field on the concentration of phenolics and chlorophyll fluorescence in two boreal and arctic?alpine lichens. <i>Environmental and Experimental Botany</i> , 2005, 53, 139-149.	2.0	49
62	The genus <i>Menegazzia</i> (Parmeliaceae, lichenized Ascomycetes) in the Tibetan region. <i>Nova Hedwigia</i> , 2005, 81, 301-310.	0.2	5
63	A new sorediate, fumarprotocetraric acid-producing lichen species of <i>Menegazzia</i> (Parmeliaceae, Tj ETQq1 1 0.784314 rgBT ₄ /Overlo	0.5	
64	Spatial trends in usnic acid concentrations of the lichen <i>Flavocetraria nivalis</i> along local climatic gradients in the Arctic (Kongsfjorden, Svalbard). <i>Polar Biology</i> , 2004, 27, 409-417.	0.5	35
65	Distribution of the lichen genus <i>Flavocetraria</i> (Parmeliaceae, Ascomycota) in the Southern Hemisphere. <i>New Zealand Journal of Botany</i> , 2004, 42, 647-656.	0.8	12
66	Revision of the lichen genus <i>Menegazzia</i> in Japan, including two new species. <i>Lichenologist</i> , 2004, 36, 15-25.	0.5	9
67	<i>Menegazzia subsimilis</i> , a widespread sorediate lichen. <i>Lichenologist</i> , 2003, 35, 393-396.	0.5	12
68	Long-term impacts of simulated climatic change on secondary metabolism, thallus structure and nitrogen fixation activity in two cyanolichens from the Arctic. <i>New Phytologist</i> , 2003, 159, 361-367.	3.5	43
69	Distribution and habitat ecology of the sorediate species of <i>Menegazzia</i> (Parmeliaceae, lichenized) Tj ETQq1 1 0.784314 rgBT ₅ /Overlo	0.5	
70	Distribution patterns of usnic acid-producing lichens along local radiation gradients in West Greenland. <i>Nova Hedwigia</i> , 2002, 75, 487-506.	0.2	24
71	Effects of ultraviolet radiation and PAR on the content of usnic and divaricatic acids in two arctic-alpine lichens. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 678-685.	1.6	80
72	A new fertile species of <i>Menegazzia</i> and notes on two sorediate species from the Neotropics. <i>Lichenologist</i> , 2002, 34, 503-508.	0.5	8

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73	A New Sorediate Species of <i>Menegazzia</i> (Parmeliaceae, Lichenized Ascomycota) from Chile. <i>Lichenologist</i> , 2001, 33, 117-120.	0.5	13