

# Martin Wilmking

## List of Publications by Year in descending order

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Version: 2024-02-01

134  
papers

8,346  
citations

61687

45  
h-index

60403

85  
g-index

145  
all docs

145  
docs citations

145  
times ranked

10254  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diurnal dynamics of CH <sub>4</sub> from a boreal peatland during snowmelt. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 133.	0.8	32
2	Temperature drives variation in flying insect biomass across a German malaise trap network. <i>Insect Conservation and Diversity</i> , 2022, 15, 168-180.	1.4	26
3	Limitation by vapour pressure deficit shapes different intra-annual growth patterns of diffuse- and ring-porous temperate broadleaves. <i>New Phytologist</i> , 2022, 233, 2429-2441.	3.5	19
4	The 2018 European heatwave led to stem dehydration but not to consistent growth reductions in forests. <i>Nature Communications</i> , 2022, 13, 28.	5.8	66
5	Short-Term Effects of Droughts and Cold Winters on the Growth of Scots Pine at Coastal Sand Dunes around the South Baltic Sea. <i>Forests</i> , 2022, 13, 477.	0.9	1
6	Climate-change-driven growth decline of European beech forests. <i>Communications Biology</i> , 2022, 5, 163.	2.0	89
7	Jet stream position explains regional anomalies in European beech forest productivity and tree growth. <i>Nature Communications</i> , 2022, 13, 2015.	5.8	8
8	Do small landforms have large effects? A review on the legacies of pre-industrial charcoal burning. <i>Geomorphology</i> , 2022, , 108332.	1.1	8
9	Species-specific effects of thermal stress on the expression of genetic variation across a diverse group of plant and animal taxa under experimental conditions. <i>Heredity</i> , 2021, 126, 23-37.	1.2	11
10	Wetter is Better: Rewetting of Minerotrophic Peatlands Increases Plant Production and Moves Them Towards Carbon Sinks in a Dry Year. <i>Ecosystems</i> , 2021, 24, 1093-1109.	1.6	21
11	Global fading of the temperature-growth coupling at alpine and polar treelines. <i>Global Change Biology</i> , 2021, 27, 1879-1889.	4.2	46
12	Increasing climate sensitivity of beech and pine is not mediated by adaptation and soil characteristics along a precipitation gradient in northeastern Germany. <i>Dendrochronologia</i> , 2021, 67, 125834.	1.0	15
13	Divergent responses to permafrost and precipitation reveal mechanisms for the spatial variation of two sympatric spruce. <i>Ecosphere</i> , 2021, 12, e03622.	1.0	12
14	Growing faster, longer or both? Modelling plastic response of <i>Juniperus communis</i> growth phenology to climate change. <i>Global Ecology and Biogeography</i> , 2021, 30, 2229-2244.	2.7	19
15	Stationarity of climate-growth response is only marginally influenced by the soil moisture regime in Western Siberia. <i>Dendrochronologia</i> , 2021, 69, 125873.	1.0	2
16	Population structure and the influence of microenvironment and genetic similarity on individual growth at Alaskan white spruce treelines. <i>Science of the Total Environment</i> , 2021, 798, 149267.	3.9	8
17	Direct and Indirect Effects of Environmental Limitations on White Spruce Xylem Anatomy at Treeline. <i>Frontiers in Plant Science</i> , 2021, 12, 748055.	1.7	0
18	Rewetting does not return drained fen peatlands to their old selves. <i>Nature Communications</i> , 2021, 12, 5693.	5.8	75

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19	Mask, Train, Repeat! Artificial Intelligence for Quantitative Wood Anatomy. <i>Frontiers in Plant Science</i> , 2021, 12, 767400.	1.7	10
20	Growth and Wood Trait Relationships of <i>Alnus glutinosa</i> in Peatland Forest Stands With Contrasting Water Regimes. <i>Frontiers in Plant Science</i> , 2021, 12, 788106.	1.7	3
21	Moisture-driven shift in the climate sensitivity of white spruce xylem anatomical traits is coupled to large-scale oscillation patterns across northern treeline in northwest North America. <i>Global Change Biology</i> , 2020, 26, 1842-1856.	4.2	25
22	Tree growth influenced by warming winter climate and summer moisture availability in northern temperate forests. <i>Global Change Biology</i> , 2020, 26, 2505-2518.	4.2	101
23	A Unifying Concept for Growth Trends of Trees and Forests – The “Potential Natural Forest” <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	10
24	Xylem Anatomical Variability in White Spruce at Treeline Is Largely Driven by Spatial Clustering. <i>Frontiers in Plant Science</i> , 2020, 11, 581378.	1.7	6
25	Changes in wood anatomical traits in Scots pine under different climate-change scenarios. <i>IAWA Journal</i> , 2020, 41, 202-218.	2.7	4
26	Expansion of <i>Juniperus sibirica</i> Burgsd. as a response to climate change and associated effect on mountain tundra vegetation in the Northern Urals. <i>Journal of Mountain Science</i> , 2020, 17, 2339-2353.	0.8	6
27	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. <i>Nature Climate Change</i> , 2020, 10, 555-560.	8.1	106
28	Lowest drought sensitivity and decreasing growth synchrony towards the dry distribution margin of European beech. <i>Journal of Biogeography</i> , 2020, 47, 1910-1921.	1.4	40
29	Global plant trait relationships extend to the climatic extremes of the tundra biome. <i>Nature Communications</i> , 2020, 11, 1351.	5.8	52
30	From Understanding to Sustainable Use of Peatlands: The WETSCAPES Approach. <i>Soil Systems</i> , 2020, 4, 14.	1.0	45
31	Global assessment of relationships between climate and tree growth. <i>Global Change Biology</i> , 2020, 26, 3212-3220.	4.2	104
32	Reduced above-ground growth and wood density but increased wood chemical concentrations of Scots pine on relict charcoal hearths. <i>Science of the Total Environment</i> , 2020, 717, 137189.	3.9	16
33	Tree growth at the end of the 21st century - the extreme years 2018/19 as template for future growth conditions. <i>Environmental Research Letters</i> , 2020, 15, 074022.	2.2	37
34	SoilTemp: A global database of near-surface temperature. <i>Global Change Biology</i> , 2020, 26, 6616-6629.	4.2	122
35	Complexity revealed in the greening of the Arctic. <i>Nature Climate Change</i> , 2020, 10, 106-117.	8.1	447
36	The biophysical climate mitigation potential of boreal peatlands during the growing season. <i>Environmental Research Letters</i> , 2020, 15, 104004.	2.2	31

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37	Higher Winter-Spring Temperature and Winter-Spring/Summer Moisture Availability Increase Scots Pine Growth on Coastal Dune Microsites Around the South Baltic Sea. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	11
38	The needle mycobiome of <i>Picea glauca</i> – A dynamic system reflecting surrounding environment and tree phenological traits. <i>Fungal Ecology</i> , 2019, 41, 177-186.	0.7	14
39	Scientific Merits and Analytical Challenges of Tree-Ring Densitometry. <i>Reviews of Geophysics</i> , 2019, 57, 1224-1264.	9.0	98
40	No systematic effects of sampling direction on climate-growth relationships in a large-scale, multi-species tree-ring data set. <i>Dendrochronologia</i> , 2019, 57, 125624.	1.0	20
41	Combining Dendrometer Series and Xylogensis Imagery – DevX, a Simple Visualization Tool to Explore Plant Secondary Growth Phenology. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	17
42	Removing the no-analogue bias in modern accelerated tree growth leads to stronger medieval drought. <i>Scientific Reports</i> , 2019, 9, 2509.	1.6	18
43	Confessions of solitary oaks: We grow fast but we fear the drought. <i>Dendrochronologia</i> , 2019, 55, 43-49.	1.0	5
44	Stand basal area and solar radiation amplify white spruce climate sensitivity in interior Alaska: Evidence from carbon isotopes and tree rings. <i>Global Change Biology</i> , 2019, 25, 911-926.	4.2	25
45	Traditional plant functional groups explain variation in economic but not size-related traits across the tundra biome. <i>Global Ecology and Biogeography</i> , 2019, 28, 78-95.	2.7	49
46	Size matters – a comparison of three methods to assess age- and size-dependent climate sensitivity of trees. <i>Trees - Structure and Function</i> , 2019, 33, 183-192.	0.9	54
47	Influence of larval outbreaks on the climate reconstruction potential of an Arctic shrub. <i>Dendrochronologia</i> , 2018, 49, 36-43.	1.0	10
48	Drivers of stem radial variation and its pattern in peatland Scots pines: A pilot study. <i>Dendrochronologia</i> , 2018, 47, 30-37.	1.0	5
49	The “carbon-neutral university” – a study from Germany. <i>International Journal of Sustainability in Higher Education</i> , 2018, 19, 130-145.	1.6	34
50	Distinct growth phenology but similar daily stem dynamics in three co-occurring broadleaved tree species. <i>Tree Physiology</i> , 2018, 38, 1820-1828.	1.4	50
51	Different maximum latewood density and blue intensity measurements techniques reveal similar results. <i>Dendrochronologia</i> , 2018, 49, 94-101.	1.0	36
52	Does sex matter? Gender-specificity and its influence on site-chronologies in the common dioecious shrub <i>Juniperus communis</i> . <i>Dendrochronologia</i> , 2018, 49, 118-126.	1.0	5
53	Climate sensitivity is affected by growth differentiation along the length of <i>Juniperus communis</i> L. shrub stems in the Ural Mountains. <i>Dendrochronologia</i> , 2018, 49, 29-35.	1.0	7
54	An 810-year history of cold season temperature variability for northern Poland. <i>Boreas</i> , 2018, 47, 443-453.	1.2	18

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55	Climate Regimes Override Micro-Site Effects on the Summer Temperature Signal of Scots Pine at Its Northern Distribution Limits. <i>Frontiers in Plant Science</i> , 2018, 9, 1597.	1.7	14
56	Tundra Trait Team: A database of plant traits spanning the tundra biome. <i>Global Ecology and Biogeography</i> , 2018, 27, 1402-1411.	2.7	57
57	Environment drives spatiotemporal patterns of clonality in white spruce ( <i>Picea glauca</i> ) in Alaska. <i>Canadian Journal of Forest Research</i> , 2018, 48, 1577-1586.	0.8	7
58	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018, 562, 57-62.	13.7	451
59	Winter matters: Sensitivity to winter climate and cold events increases towards the cold distribution margin of European beech ( <i>Fagus sylvatica</i> L.). <i>Journal of Biogeography</i> , 2018, 45, 2779-2790.	1.4	37
60	Climatically controlled reproduction drives interannual growth variability in a temperate tree species. <i>Ecology Letters</i> , 2018, 21, 1833-1844.	3.0	92
61	Visualizing Individual Tree Differences in Tree-Ring Studies. <i>Forests</i> , 2018, 9, 216.	0.9	15
62	Treeline advances and associated shifts in the ground vegetation alter fine root dynamics and mycelia production in the South and Polar Urals. <i>Oecologia</i> , 2017, 183, 571-586.	0.9	15
63	Tapping the tree-ring archive for studying effects of resin extraction on the growth and climate sensitivity of Scots pine. <i>Forest Ecosystems</i> , 2017, 4, .	1.3	23
64	Shrubs shed light on 20th century Greenland Ice Sheet melting. <i>Boreas</i> , 2017, 46, 667-677.	1.2	10
65	Low resistance but high resilience in growth of a major deciduous forest tree ( <i>Fagus sylvatica</i> L.) in response to late spring frost in southern Germany. <i>Trees - Structure and Function</i> , 2017, 31, 743-751.	0.9	47
66	Variability of soil carbon stocks in a mixed deciduous forest on hydromorphic soils. <i>Geoderma</i> , 2017, 307, 8-18.	2.3	15
67	Background invertebrate herbivory on dwarf birch ( <i>Betula glandulosa-nana</i> complex) increases with temperature and precipitation across the tundra biome. <i>Polar Biology</i> , 2017, 40, 2265-2278.	0.5	47
68	Reconciling the community with a conceptâ€”The uniformitarian principle in the dendro-sciences. <i>Dendrochronologia</i> , 2017, 44, 211-214.	1.0	17
69	Wood anatomy of <i>Juniperus communis</i> : a promising proxy for palaeoclimate reconstructions in the Arctic. <i>Polar Biology</i> , 2017, 40, 977-988.	0.5	14
70	Diverging shrub and tree growth from the Polar to the Mediterranean biomes across the European continent. <i>Global Change Biology</i> , 2017, 23, 3169-3180.	4.2	44
71	High frequency growth variability of White spruce clones does not differ from non-clonal trees at Alaskan treelines. <i>Dendrochronologia</i> , 2017, 44, 187-192.	1.0	16
72	Tuning the Voices of a Choir: Detecting Ecological Gradients in Time-Series Populations. <i>PLoS ONE</i> , 2016, 11, e0158346.	1.1	50

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73	Russian boreal peatlands dominate the natural European methane budget. <i>Environmental Research Letters</i> , 2016, 11, 014004.	2.2	10
74	Habitat conditions and phenological tree traits overrule the influence of tree genotype in the needle mycobiome of <i>Picea glauca</i> system at an arctic treeline ecotone. <i>New Phytologist</i> , 2016, 211, 1221-1231.	3.5	55
75	Ecological factors limiting occurrence of corticolous myxomycetes – a case study from Alaska. <i>Fungal Ecology</i> , 2016, 21, 16-23.	0.7	15
76	Common trends in elements? Within- and between-tree variations of wood-chemistry measured by X-ray fluorescence – A dendrochemical study. <i>Science of the Total Environment</i> , 2016, 566-567, 1245-1253.	3.9	44
77	dendrometeR: Analyzing the pulse of trees in R. <i>Dendrochronologia</i> , 2016, 40, 12-16.	1.0	48
78	Drought sensitivity of beech on a shallow chalk soil in northeastern Germany – a comparative study. <i>Forest Ecosystems</i> , 2016, 3, .	1.3	14
79	Data on the occurrence of corticolous myxomycetes from Denali National Park, Alaska. <i>Data in Brief</i> , 2016, 7, 1196-1198.	0.5	0
80	Does slope exposure affect frost ring formation in <i>Picea obovata</i> growing at treeline in the Southern Urals?. <i>Silva Fennica</i> , 2016, 50, .	0.5	6
81	Can We Use Tree Rings of Black Alder to Reconstruct Lake Levels? A Case Study for the Mecklenburg Lake District, Northeastern Germany. <i>PLoS ONE</i> , 2015, 10, e0137054.	1.1	7
82	Climate sensitivity of shrub growth across the tundra biome. <i>Nature Climate Change</i> , 2015, 5, 887-891.	8.1	447
83	Correcting the calculation of Gleichmäßigkeit. <i>Dendrochronologia</i> , 2015, 34, 29-30.	1.0	77
84	Shrubs tracing sea surface temperature – <i>Calluna vulgaris</i> on the Faroe Islands. <i>International Journal of Biometeorology</i> , 2015, 59, 1567-1575.	1.3	14
85	New insights for the interpretation of ancient bog oak chronologies? Reactions of oak ( <i>Quercus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1 417, 534-543.	1.0	19
86	Methods for measuring arctic and alpine shrub growth: A review. <i>Earth-Science Reviews</i> , 2015, 140, 1-13.	4.0	112
87	Warming-Induced Decline of <i>Picea crassifolia</i> Growth in the Qilian Mountains in Recent Decades. <i>PLoS ONE</i> , 2015, 10, e0129959.	1.1	22
88	An Ensemble Weighting Approach for Dendroclimatology: Drought Reconstructions for the Northeastern Tibetan Plateau. <i>PLoS ONE</i> , 2014, 9, e86689.	1.1	7
89	Local adaptations to frost in marginal and central populations of the dominant forest tree <i>Fagus sylvatica</i> , as affected by temperature and extreme drought in common garden experiments. <i>Ecology and Evolution</i> , 2014, 4, 594-605.	0.8	97
90	A synthesis of methane emissions from 71 northern, temperate, and subtropical wetlands. <i>Global Change Biology</i> , 2014, 20, 2183-2197.	4.2	389

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91	Straight lines or eccentric eggs? A comparison of radial and spatial ring width measurements and its implications for climate transfer functions. <i>Dendrochronologia</i> , 2014, 32, 313-326.	1.0	30
92	Peatland pines as a proxy for water table fluctuations: Disentangling tree growth, hydrology and possible human influence. <i>Science of the Total Environment</i> , 2014, 500-501, 52-63.	3.9	26
93	The surface energy balance and its drivers in a boreal peatland fen of northwestern Russia. <i>Journal of Hydrology</i> , 2014, 511, 359-373.	2.3	48
94	Optimizing cell-anatomical chronologies of Scots pine by stepwise increasing the number of radial tracheid rows included—Case study based on three Scandinavian sites. <i>Dendrochronologia</i> , 2014, 32, 205-209.	1.0	30
95	Three microsatellite multiplex PCR assays allowing high resolution genotyping of white spruce, <i>Picea glauca</i> . <i>Silvae Genetica</i> , 2014, 63, 230-233.	0.4	6
96	Hydrology-driven ecosystem respiration determines the carbon balance of a boreal peatland. <i>Science of the Total Environment</i> , 2013, 463-464, 675-682.	3.9	24
97	Productivity and carbon sequestration of <i>Populus euphratica</i> at the Amu River, Turkmenistan. <i>Forestry</i> , 2013, 86, 429-439.	1.2	14
98	Differential radial growth patterns between beech ( <i>Fagus sylvatica</i> L.) and oak ( <i>Quercus robur</i> L.) on periodically waterlogged soils. <i>Tree Physiology</i> , 2013, 33, 425-437.	1.4	46
99	Can shrubs help to reconstruct historical glacier retreats?. <i>Environmental Research Letters</i> , 2012, 7, 044031.	2.2	17
100	Do limiting factors at Alaskan treelines shift with climatic regimes?. <i>Environmental Research Letters</i> , 2012, 7, 015505.	2.2	64
101	Carbon dioxide exchange fluxes of a boreal peatland over a complete growing season, Komi Republic, NW Russia. <i>Biogeochemistry</i> , 2012, 111, 485-513.	1.7	32
102	Effects of Climate, Site Conditions, and Seed Quality on Recent Treeline Dynamics in NW Russia: Permafrost and Lack of Reproductive Success Hamper Treeline Advance?. <i>Ecosystems</i> , 2012, 15, 1053-1064.	1.6	19
103	Allometric variability of Haloxylon species in Central Asia. <i>Forest Ecology and Management</i> , 2012, 274, 1-9.	1.4	29
104	Continuously missing outer rings in woody plants at their distributional margins. <i>Dendrochronologia</i> , 2012, 30, 213-222.	1.0	69
105	Temperature reconstruction in the Ob River valley based on ring widths of three coniferous tree species. <i>Dendrochronologia</i> , 2012, 30, 302-309.	1.0	6
106	Cross-evaluation of measurements of peatland methane emissions on microform and ecosystem scales using high-resolution landcover classification and source weight modelling. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 864-874.	1.9	56
107	Dynamic relationships between <i>Picea crassifolia</i> growth and climate at upper treeline in the Qilian Mts., Northeast Tibetan Plateau, China. <i>Dendrochronologia</i> , 2011, 29, 185-199.	1.0	27
108	Drought matters — Declining precipitation influences growth of <i>Fagus sylvatica</i> L. and <i>Quercus robur</i> L. in north-eastern Germany. <i>Forest Ecology and Management</i> , 2011, 262, 947-961.	1.4	229

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109	Shrub expansion in tundra ecosystems: dynamics, impacts and research priorities. <i>Environmental Research Letters</i> , 2011, 6, 045509.	2.2	1,021
110	Plant-mediated CH <sub>4</sub> transport and contribution of photosynthates to methanogenesis at a boreal mire: a <sup>14</sup> C pulse-labeling study. <i>Biogeosciences</i> , 2011, 8, 2365-2375.	1.3	72
111	No change without a cause – why climate change remains the most plausible reason for shrub growth dynamics in Scandinavia. <i>New Phytologist</i> , 2011, 189, 902-908.	3.5	30
112	Identification of linear relationships from noisy data using errors-in-variables models – relevance for reconstruction of past climate from tree-ring and other proxy information. <i>Climatic Change</i> , 2011, 105, 155-177.	1.7	13
113	Process-based modeling analyses of <i>Sabina przewalskii</i> growth response to climate factors around the northeastern Qaidam Basin. <i>Science Bulletin</i> , 2011, 56, 1518-1525.	1.7	23
114	A comparison of linear and exponential regression for estimating diffusive CH <sub>4</sub> fluxes by closed-chambers in peatlands. <i>Soil Biology and Biochemistry</i> , 2010, 42, 507-515.	4.2	58
115	Establishing a missing link: warm summers and winter snow cover promote shrub expansion into alpine tundra in Scandinavia. <i>New Phytologist</i> , 2010, 186, 890-899.	3.5	272
116	Evapotranspiration dynamics in a boreal peatland and its impact on the water and energy balance. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	42
117	Divergent growth responses and increasing temperature limitation of Qinghai spruce growth along an elevation gradient at the northeast Tibet Plateau. <i>Forest Ecology and Management</i> , 2010, 260, 1076-1082.	1.4	74
118	The influence of summer seasonal extremes on dissolved organic carbon export from a boreal peatland catchment: Evidence from one dry and one wet growing season. <i>Science of the Total Environment</i> , 2009, 407, 1373-1382.	3.9	44
119	A 694-year tree-ring based rainfall reconstruction from Himachal Pradesh, India. <i>Climate Dynamics</i> , 2009, 33, 1149-1158.	1.7	88
120	Changing relationships between tree growth and climate in Northwest China. <i>Plant Ecology</i> , 2009, 201, 39-50.	0.7	50
121	Overestimation of CO <sub>2</sub> respiration fluxes by the closed chamber method in low-turbulence nighttime conditions. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	25
122	Changing climate sensitivity of black spruce ( <i>Picea mariana</i> Mill.) in a peatland – forest landscape in Interior Alaska. <i>Dendrochronologia</i> , 2008, 25, 167-175.	1.0	55
123	Wetland succession in a permafrost collapse: interactions between fire and thermokarst. <i>Biogeosciences</i> , 2008, 5, 1273-1286.	1.3	70
124	Do we miss the hot spots? – The use of very high resolution aerial photographs to quantify carbon fluxes in peatlands. <i>Biogeosciences</i> , 2008, 5, 1387-1393.	1.3	32
125	Changing relationships between tree growth and climate in Northwest China. , 2008, , 39-50.		3
126	CO <sub>2</sub> flux determination by closed-chamber methods can be seriously biased by inappropriate application of linear regression. <i>Biogeosciences</i> , 2007, 4, 1005-1025.	1.3	254



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127	Effect of tree line advance on carbon storage in NW Alaska. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	55
128	Modeling spatial variability of white spruce ( <i>Picea glauca</i> ) growth responses to Climate Change at and below treeline in Alaska - A case study from two National Parks. Erdkunde, 2006, 2, 113-126.	0.4	7
129	Longitudinal variation of radial growth at Alaska's northern treeline—recent changes and possible scenarios for the 21st century. Global and Planetary Change, 2005, 47, 282-300.	1.6	102
130	Increased temperature sensitivity and divergent growth trends in circumpolar boreal forests. Geophysical Research Letters, 2005, 32, .	1.5	122
131	Divergent tree growth response to recent climatic warming, Lake Clark National Park and Preserve, Alaska. Geophysical Research Letters, 2005, 32, .	1.5	93
132	Recent climate warming forces contrasting growth responses of white spruce at treeline in Alaska through temperature thresholds. Global Change Biology, 2004, 10, 1724-1736.	4.2	414
133	Reconstruction of Summer Temperatures in Interior Alaska from Tree-Ring Proxies: Evidence for Changing Synoptic Climate Regimes. Climatic Change, 2004, 63, 91-120.	1.7	78
134	An Early Tree-line Experiment by a Wilderness Advocate : Bob Marshall's Legacy in the Brooks Range, Alaska. Arctic, 2004, 57, .	0.2	3