

# Gareth K Phoenix

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2831527/publications.pdf>

Version: 2024-02-01

93  
papers

6,734  
citations

66343

42  
h-index

62596

80  
g-index

93  
all docs

93  
docs citations

93  
times ranked

8381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric nitrogen deposition in world biodiversity hotspots: the need for a greater global perspective in assessing N deposition impacts. <i>Global Change Biology</i> , 2006, 12, 470-476.	9.5	471
2	Complexity revealed in the greening of the Arctic. <i>Nature Climate Change</i> , 2020, 10, 106-117.	18.8	447
3	Impacts of parasitic plants on natural communities. <i>New Phytologist</i> , 2005, 166, 737-751.	7.3	410
4	Impacts of atmospheric nitrogen deposition: responses of multiple plant and soil parameters across contrasting ecosystems in long-term field experiments. <i>Global Change Biology</i> , 2012, 18, 1197-1215.	9.5	340
5	Facilitative plant interactions and climate simultaneously drive alpine plant diversity. <i>Ecology Letters</i> , 2014, 17, 193-202.	6.4	274
6	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.	4.0	247
7	A potential loss of carbon associated with greater plant growth in the European Arctic. <i>Nature Climate Change</i> , 2012, 2, 875-879.	18.8	192
8	Arctic browning: extreme events and trends reversing arctic greening. <i>Global Change Biology</i> , 2016, 22, 2960-2962.	9.5	187
9	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.	9.5	172
10	Multiple Effects of Changes in Arctic Snow Cover. <i>Ambio</i> , 2011, 40, 32-45.	5.5	169
11	Impacts of multiple extreme winter warming events on sub-Arctic heathland: phenology, reproduction, growth, and CO <sub>2</sub> flux responses. <i>Global Change Biology</i> , 2011, 17, 2817-2830.	9.5	163
12	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.	9.5	158
13	Alpine cushion plants inhibit the loss of phylogenetic diversity in severe environments. <i>Ecology Letters</i> , 2013, 16, 478-486.	6.4	151
14	Base cation depletion, eutrophication and acidification of species-rich grasslands in response to long-term simulated nitrogen deposition. <i>Environmental Pollution</i> , 2008, 155, 336-349.	7.5	149
15	Reviews and syntheses: Changing ecosystem influences on soil thermal regimes in northern high-latitude permafrost regions. <i>Biogeosciences</i> , 2018, 15, 5287-5313.	3.3	143
16	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.	4.0	140
17	The influence of vegetation and soil characteristics on active-layer thickness of permafrost soils in boreal forest. <i>Global Change Biology</i> , 2016, 22, 3127-3140.	9.5	131
18	Simulated pollutant nitrogen deposition increases P demand and enhances root-surface phosphatase activities of three plant functional types in a calcareous grassland. <i>New Phytologist</i> , 2004, 161, 279-290.	7.3	106

#	ARTICLE	IF	CITATIONS
19	Effects of global change on a sub-Arctic heath: effects of enhanced UV-B radiation and increased summer precipitation. <i>Journal of Ecology</i> , 2001, 89, 256-267.	4.0	104
20	Effects of enhanced nitrogen deposition and phosphorus limitation on nitrogen budgets of semi-natural grasslands. <i>Global Change Biology</i> , 2003, 9, 1309-1321.	9.5	96
21	Bryophyte physiological responses to, and recovery from, long-term nitrogen deposition and phosphorus fertilisation in acidic grassland. <i>New Phytologist</i> , 2008, 180, 864-874.	7.3	92
22	Impacts of extreme winter warming events on plant physiology in a sub-Arctic heath community. <i>Physiologia Plantarum</i> , 2010, 140, 128-140.	5.2	90
23	The Role of Nitrogen Deposition in Widespread Plant Community Change Across Semi-natural Habitats. <i>Ecosystems</i> , 2014, 17, 864-877.	3.4	86
24	Importance of different components of green roof substrate on plant growth and physiological performance. <i>Urban Forestry and Urban Greening</i> , 2014, 13, 507-516.	5.3	83
25	Long-term nitrogen deposition depletes grassland seed banks. <i>Nature Communications</i> , 2015, 6, 6185.	12.8	76
26	Understanding the drivers of extensive plant damage in boreal and Arctic ecosystems: Insights from field surveys in the aftermath of damage. <i>Science of the Total Environment</i> , 2017, 599-600, 1965-1976.	8.0	74
27	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.	4.0	69
28	Limited contribution of permafrost carbon to methane release from thawing peatlands. <i>Nature Climate Change</i> , 2017, 7, 507-511.	18.8	69
29	Impacts of extreme winter warming events on litter decomposition in a sub-Arctic heathland. <i>Soil Biology and Biochemistry</i> , 2010, 42, 611-617.	8.8	68
30	Contrasting strategies for UV-B screening in sub-Arctic dwarf shrubs. <i>Plant, Cell and Environment</i> , 2003, 26, 957-964.	5.7	67
31	The role of mosses in carbon uptake and partitioning in arctic vegetation. <i>New Phytologist</i> , 2013, 199, 163-175.	7.3	65
32	The hidden potential of urban horticulture. <i>Nature Food</i> , 2020, 1, 155-159.	14.0	64
33	The Regulation of Plant Secondary Metabolism in Response to Abiotic Stress: Interactions Between Heat Shock and Elevated CO <sub>2</sub> . <i>Frontiers in Plant Science</i> , 2019, 10, 1463.	3.6	57
34	Arctic browning: Impacts of extreme climatic events on heathland ecosystem CO <sub>2</sub> fluxes. <i>Global Change Biology</i> , 2019, 25, 489-503.	9.5	56
35	Ecosystem Response to Climatic Change: The Importance of the Cold Season. <i>Ambio</i> , 2012, 41, 246-255.	5.5	55
36	The effects of foundation species on community assembly: a global study on alpine cushion plant communities. <i>Ecology</i> , 2015, 96, 2064-2069.	3.2	53

#	ARTICLE	IF	CITATIONS
37	Plant community composition, not diversity, regulates soil respiration in grasslands. <i>Biology Letters</i> , 2008, 4, 345-348.	2.3	52
38	Vegetation Type Dominates the Spatial Variability in CH <sub>4</sub> Emissions Across Multiple Arctic Tundra Landscapes. <i>Ecosystems</i> , 2016, 19, 1116-1132.	3.4	52
39	Parasitic plant litter input: a novel indirect mechanism influencing plant community structure. <i>New Phytologist</i> , 2013, 198, 222-231.	7.3	50
40	Mapping Arctic Tundra Vegetation Communities Using Field Spectroscopy and Multispectral Satellite Data in North Alaska, USA. <i>Remote Sensing</i> , 2016, 8, 978.	4.0	48
41	Predicting impacts of Arctic climate change: Past lessons and future challenges. <i>Ecological Research</i> , 2004, 19, 65-74.	1.5	46
42	Climatic and biotic extreme events moderate long-term responses of above- and belowground sub-Arctic heathland communities to climate change. <i>Global Change Biology</i> , 2015, 21, 4063-4075.	9.5	45
43	Winters are changing: snow effects on Arctic and alpine tundra ecosystems. <i>Arctic Science</i> , 2022, 8, 572-608.	2.3	43
44	Contrasting synchrony in root and leaf phenology across multiple sub-Arctic plant communities. <i>Journal of Ecology</i> , 2016, 104, 239-248.	4.0	42
45	Arctic soil microbial diversity in a changing world. <i>Research in Microbiology</i> , 2015, 166, 796-813.	2.1	41
46	Buffering effects of soil seed banks on plant community composition in response to land use and climate. <i>Global Ecology and Biogeography</i> , 2021, 30, 128-139.	5.8	41
47	Limited release of previously-frozen C and increased new peat formation after thaw in permafrost peatlands. <i>Soil Biology and Biochemistry</i> , 2018, 118, 115-129.	8.8	40
48	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.	4.2	39
49	Shallow soils are warmer under trees and tall shrubs across Arctic and Boreal ecosystems. <i>Environmental Research Letters</i> , 2021, 16, 015001.	5.2	39
50	Impacts of atmospheric pollution on the plant communities of British acid grasslands. <i>Environmental Pollution</i> , 2011, 159, 2602-2608.	7.5	38
51	Ecological importance of ambient solar ultraviolet radiation to a sub-arctic heath community. <i>Plant Ecology</i> , 2003, 165, 263-273.	1.6	35
52	Leaf and fine root carbon stocks and turnover are coupled across Arctic ecosystems. <i>Global Change Biology</i> , 2013, 19, 3668-3676.	9.5	35
53	Effects of climate change on parasitic plants: the root hemiparasitic <i>Orobanchaceae</i> . <i>Folia Geobotanica</i> , 2005, 40, 205-216.	0.9	34
54	Impacts of long-term enhanced UV-B radiation on bryophytes in two sub-Arctic heathland sites of contrasting water availability. <i>Annals of Botany</i> , 2011, 108, 557-565.	2.9	34

#	ARTICLE	IF	CITATIONS
55	Surface morphology, leaf and cuticle thickness of four dwarf shrubs from a sub-Arctic heath following long-term exposure to enhanced levels of UV-B. <i>Physiologia Plantarum</i> , 2003, 117, 289-294.	5.2	30
56	The Arctic. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S239-S286.	3.3	29
57	Impacts of winter icing events on the growth, phenology and physiology of sub-Arctic dwarf shrubs. <i>Physiologia Plantarum</i> , 2012, 146, 460-472.	5.2	28
58	Nitrogen accumulation and partitioning in a High Arctic tundra ecosystem from extreme atmospheric N deposition events. <i>Science of the Total Environment</i> , 2016, 554-555, 303-310.	8.0	28
59	Upscaling CH <sub>4</sub> Fluxes Using High-Resolution Imagery in Arctic Tundra Ecosystems. <i>Remote Sensing</i> , 2017, 9, 1227.	4.0	26
60	Sustaining ecosystem services in ancient limestone grassland: importance of major component plants and community composition. <i>Journal of Ecology</i> , 2008, 96, 894-902.	4.0	25
61	Niche differentiation and plasticity in soil phosphorus acquisition among co-occurring plants. <i>Nature Plants</i> , 2020, 6, 349-354.	9.3	25
62	Delayed responses of an Arctic ecosystem to an extreme summer: impacts on net ecosystem exchange and vegetation functioning. <i>Biogeosciences</i> , 2014, 11, 5877-5888.	3.3	24
63	Increasing green roof plant drought tolerance through substrate modification and the use of water retention gels. <i>Urban Water Journal</i> , 2017, 14, 551-560.	2.1	23
64	The Arctic. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, S263-S316.	3.3	23
65	Impacts of burning and increased nitrogen deposition on nitrogen pools and leaching in an upland moor. <i>Journal of Ecology</i> , 2007, 95, 1195-1207.	4.0	22
66	Recovery of soil nitrogen pools in species-rich grasslands after 12 years of simulated pollutant nitrogen deposition: a 6-year experimental analysis. <i>Global Change Biology</i> , 2011, 17, 2615-2628.	9.5	21
67	Photosynthesis and productivity in heterogeneous arctic tundra: consequences for ecosystem function of mixing vegetation types at stand edges. <i>Journal of Ecology</i> , 2012, 100, 441-451.	4.0	21
68	Variation in bacterial, archaeal and fungal community structure and abundance in High Arctic tundra soil. <i>Polar Biology</i> , 2015, 38, 1009-1024.	1.2	21
69	Using AMF inoculum to improve the nutritional status of <i>Prunella vulgaris</i> plants in green roof substrate during establishment. <i>Urban Forestry and Urban Greening</i> , 2015, 14, 959-967.	5.3	21
70	Transition zones between vegetation patches in a heterogeneous Arctic landscape: how plant growth and photosynthesis change with abundance at small scales. <i>Oecologia</i> , 2010, 163, 47-56.	2.0	20
71	Soil C, N and P cycling enzyme responses to nutrient limitation under elevated CO <sub>2</sub> . <i>Biogeochemistry</i> , 2020, 151, 221-235.	3.5	18
72	Impact of early and late winter icing events on sub-Arctic dwarf shrubs. <i>Plant Biology</i> , 2014, 16, 125-132.	3.8	17

#	ARTICLE	IF	CITATIONS
73	Nitrogen Deposition and Terrestrial Biodiversity. , 2013, , 519-536.		15
74	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.	2.4	14
75	Seasonal dynamics of soil and plant nutrients at three environmentally contrasting sites along a sub-Arctic catchment sequence. <i>Polar Biology</i> , 2017, 40, 1821-1834.	1.2	13
76	Responses of sub-arctic dwarf shrubs to low oxygen and high carbon dioxide conditions. <i>Environmental and Experimental Botany</i> , 2013, 85, 7-15.	4.2	12
77	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. <i>Functional Ecology</i> , 2017, 31, 127-134.	3.6	12
78	Transpiration from subarctic deciduous woodlands: Environmental controls and contribution to ecosystem evapotranspiration. <i>Ecohydrology</i> , 2020, 13, e2190.	2.4	12
79	Accumulation of Pollutant Nitrogen in Calcareous and Acidic Grasslands: Evidence from N Flux and 15N Tracer Studies. <i>Water, Air and Soil Pollution</i> , 2004, 4, 159-167.	0.8	11
80	Tight Coupling Between Shoot Level Foliar N and P, Leaf Area, and Shoot Growth in Arctic Dwarf Shrubs Under Simulated Climate Change. <i>Ecosystems</i> , 2016, 19, 326-338.	3.4	11
81	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.	11.0	11
82	The need to understand the stability of arctic vegetation during rapid climate change: An assessment of imbalance in the literature. <i>Ambio</i> , 2022, 51, 1034-1044.	5.5	9
83	Boreal permafrost thaw amplified by fire disturbance and precipitation increases. <i>Environmental Research Letters</i> , 2020, 15, 114050.	5.2	9
84	Arctic greening and browning: Challenges and a cascade of complexities. <i>Global Change Biology</i> , 2022, 28, 3481-3483.	9.5	8
85	Peatlands in a changing world. <i>New Phytologist</i> , 2011, 191, 309-311.	7.3	7
86	Tight coupling of leaf area index to canopy nitrogen and phosphorus across heterogeneous tallgrass prairie communities. <i>Oecologia</i> , 2016, 182, 889-898.	2.0	7
87	Extreme event impacts on CO <sub>2</sub> fluxes across a range of high latitude, shrub-dominated ecosystems. <i>Environmental Research Letters</i> , 2020, 15, 104084.	5.2	7
88	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.	3.6	6
89	The missing pieces for better future predictions in subarctic ecosystems: A Tornetr�sk case study. <i>Ambio</i> , 2021, 50, 375-392.	5.5	6
90	Organic phosphorus cycling may control grassland responses to nitrogen deposition: a long-term field manipulation and modelling study. <i>Biogeosciences</i> , 2021, 18, 4021-4037.	3.3	5

#	ARTICLE	IF	CITATIONS
91	Ecology of Hemiparasitic Orobanchaceae with Special Reference to Their Interaction with Plant Communities. , 2013, , 287-305.		5
92	Stress-induced secondary leaves of a boreal deciduous shrub (<i>Vaccinium myrtillus</i>) overwinter then regain activity the following growing season. Nordic Journal of Botany, 2018, 36, e01894.	0.5	4
93	Accumulation of pollutant nitrogen in calcareous and acidic grasslands: Evidence from N flux and 15N tracer studies. Water, Air and Soil Pollution, 2005, 4, 159-167.	0.8	0