

# Robert Baxter

## List of Publications by Year in descending order

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61  
papers

3,032  
citations

186265

28  
h-index

161849

54  
g-index

62  
all docs

62  
docs citations

62  
times ranked

4599  
citing authors

#	ARTICLE	IF	CITATIONS
1	Slope, aspect and climate: Spatially explicit and implicit models of topographic microclimate in chalk grassland. <i>Ecological Modelling</i> , 2008, 216, 47-59.	2.5	406
2	The effect of elevated CO <sub>2</sub> on the chemical composition and construction costs of leaves of 27 C3 species. <i>Plant, Cell and Environment</i> , 1997, 20, 472-482.	5.7	355
3	Influence of slope and aspect on long-term vegetation change in British chalk grasslands. <i>Journal of Ecology</i> , 2006, 94, 355-368.	4.0	269
4	SNOWMIP2: An Evaluation of Forest Snow Process Simulations. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 1120-1136.	3.3	186
5	Predicting spatial and temporal patterns of budburst and spring frost risk in north-west Europe: the implications of local adaptation to climate. <i>Global Change Biology</i> , 2010, 16, 1503-1514.	9.5	125
6	Carbon balance of Arctic tundra under increased snow cover mediated by a plant pathogen. <i>Nature Climate Change</i> , 2011, 1, 220-223.	18.8	102
7	Soil respiration: implications of the plant-soil continuum and respiration chamber collar insertion depth on measurement and modelling of soil CO <sub>2</sub> efflux rates in three ecosystems. <i>European Journal of Soil Science</i> , 2011, 62, 82-94.	3.9	96
8	Effects of an experimentally applied increase in ammonium on growth and amino-acid metabolism of <i>Sphagnum cuspidatum</i> Ehrh. ex. Hoffm. from differently polluted areas. <i>New Phytologist</i> , 1992, 120, 265-274.	7.3	81
9	Effects of elevated carbon dioxide on three montane grass species. <i>Journal of Experimental Botany</i> , 1994, 45, 305-315.	4.8	76
10	Evaluating global snow water equivalent products for testing land surface models. <i>Remote Sensing of Environment</i> , 2013, 128, 107-117.	11.0	71
11	Characterising forest gap fraction with terrestrial lidar and photography: An examination of relative limitations. <i>Agricultural and Forest Meteorology</i> , 2014, 189-190, 105-114.	4.8	71
12	Net ecosystem exchange over heterogeneous Arctic tundra: Scaling between chamber and eddy covariance measurements. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	60
13	Phosphorus compounds in subarctic Fennoscandian soils at the mountain birch ( <i>Betula</i> ) Tj ETQq1 1 0.784314 rgBT/Overlock_10 Tf 50	8.8	57
14	Characterization of the phosphatase activities of mosses in relation to their environment. <i>Plant, Cell and Environment</i> , 2001, 24, 1165-1176.	5.7	55
15	Seasonal phosphatase activity in three characteristic soils of the English uplands polluted by long-term atmospheric nitrogen deposition. <i>Environmental Pollution</i> , 2002, 120, 313-317.	7.5	55
16	An inexpensive system for exposing plants in the field to elevated concentrations of CO <sub>2</sub> . <i>Plant, Cell and Environment</i> , 1992, 15, 365-372.	5.7	49
17	Effects of Warming on Shrub Abundance and Chemistry Drive Ecosystem-Level Changes in a Forest-Tundra Ecotone. <i>Ecosystems</i> , 2012, 15, 1219-1233.	3.4	48
18	Effects of elevated carbon dioxide on three grass species from montane pasture II. Nutrient uptake, allocation and efficiency of use. <i>Journal of Experimental Botany</i> , 1994, 45, 1267-1278.	4.8	47

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19	Phosphorus composition of upland soils polluted by long-term atmospheric nitrogen deposition. <i>Biogeochemistry</i> , 2003, 65, 259-274.	3.5	45
20	Effect of elevated CO <sub>2</sub> and nutrient status on growth, dry matter partitioning and nutrient content of <i>Poa alpina</i> var. <i>vivipara</i> L.. <i>Journal of Experimental Botany</i> , 1997, 48, 1477-1486.	4.8	40
21	Pseudoviviparous Reproduction of <i>Poa alpina</i> var. <i>vivipara</i> L. (Poaceae) during Long-term Exposure to Elevated Atmospheric CO <sub>2</sub> . <i>Annals of Botany</i> , 2003, 91, 613-622.	2.9	40
22	Nitrogen and phosphorus in soil solutions and drainage streams in Upper Teesdale, northern England: implications of organic compounds for biological nutrient limitation. <i>Science of the Total Environment</i> , 2003, 314-316, 153-170.	8.0	36
23	Effects of elevated CO <sub>2</sub> on the vasculature and phenolic secondary metabolism of <i>Plantago maritima</i> . <i>Phytochemistry</i> , 2004, 65, 2197-2204.	2.9	36
24	Nonvascular contribution to ecosystem NPP in a subarctic heath during early and late growing season. <i>Plant Ecology</i> , 2009, 202, 41-53.	1.6	35
25	Upscaling as ecological information transfer: a simple framework with application to Arctic ecosystem carbon exchange. <i>Landscape Ecology</i> , 2009, 24, 971-986.	4.2	34
26	Characterising inter-annual variation in the spatial pattern of thermal microclimate in a UK upland using a combined empirical and physical model. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 12-19.	4.8	34
27	Plant carbon allocation drives turnover of old soil organic matter in permafrost tundra soils. <i>Global Change Biology</i> , 2020, 26, 4559-4571.	9.5	31
28	Effects of elevated CO <sub>2</sub> concentrations on three montane grass species. <i>Journal of Experimental Botany</i> , 1995, 46, 917-929.	4.8	30
29	A C-Repeat Binding Factor Transcriptional Activator (CBF/DREB1) from European Bilberry ( <i>Vaccinium</i> ) Tj ETQq1 1 0.784314 rgBT /Overdo e54119.	2.5	29
30	Redox dynamics in the active layer of an Arctic headwater catchment; examining the potential for transfer of dissolved methane from soils to stream water. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2776-2792.	3.0	28
31	Quantifying landscape-level methane fluxes in subarctic Finland using a multiscale approach. <i>Global Change Biology</i> , 2015, 21, 3712-3725.	9.5	23
32	Postfire recruitment failure in Scots pine forests of southern Siberia. <i>Remote Sensing of Environment</i> , 2020, 237, 111539.	11.0	23
33	Responses of <i>Sphagnum</i> species to atmospheric nitrogen and sulphur deposition. <i>Botanical Journal of the Linnean Society</i> , 1990, 104, 255-265.	1.6	22
34	Snow-induced changes in dwarf birch chemistry increase moth larval growth rate and level of herbivory. <i>Polar Biology</i> , 2010, 33, 693-702.	1.2	22
35	Host plant growth characteristics as determinants of abundance and phenology in jumping plant-lice on downy willow. <i>Ecological Entomology</i> , 2001, 26, 376-387.	2.2	21
36	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

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37	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
38	The Effect of Snow on Plant Chemistry and Invertebrate Herbivory: Experimental Manipulations Along a Natural Snow Gradient. <i>Ecosystems</i> , 2010, 13, 741-751.	3.4	19
39	Fast assimilate turnover revealed by in situ <sup>13</sup> CO <sub>2</sub> pulse-labelling in Subarctic tundra. <i>Polar Biology</i> , 2012, 35, 1209-1219.	1.2	17
40	Biogeochemistry of "pristine" freshwater stream and lake systems in the western Canadian Arctic. <i>Biogeochemistry</i> , 2016, 130, 191-213.	3.5	17
41	Effects of the bisulphite ion on growth and photosynthesis in <i>Sphagnum cuspidatum</i> Hoffm.. <i>New Phytologist</i> , 1989, 111, 457-462.	7.3	16
42	Could competition between plants and microbes regulate plant nutrition and atmospheric CO <sub>2</sub> concentrations?. <i>Science of the Total Environment</i> , 1998, 220, 181-184.	8.0	16
43	Standardisation of temperature observed by automatic weather stations. <i>Environmental Monitoring and Assessment</i> , 2001, 68, 127-136.	2.7	16
44	Environmental and Vegetation Drivers of Seasonal CO <sub>2</sub> Fluxes in a Sub-arctic Forest "Mire Ecotone. <i>Ecosystems</i> , 2014, 17, 377-393.	3.4	15
45	The relationship between extracellular metal accumulation and bisulphite tolerance in <i>Sphagnum cuspidatum</i> Hoffm.. <i>New Phytologist</i> , 1989, 111, 463-472.	7.3	13
46	Biases in Reanalysis Snowfall Found by Comparing the JULES Land Surface Model to GlobSnow. <i>Journal of Climate</i> , 2014, 27, 624-632.	3.2	13
47	Some Ecophysiological and Production Responses of Grasslands to Long-Term Elevated CO <sub>2</sub> under Continental and Atlantic Climates. <i>Annals of the New York Academy of Sciences</i> , 1998, 851, 241-250.	3.8	12
48	Ecosystem carbon dynamics differ between tundra shrub types in the western Canadian Arctic. <i>Environmental Research Letters</i> , 2018, 13, 084014.	5.2	12
49	Transpiration from subarctic deciduous woodlands: Environmental controls and contribution to ecosystem evapotranspiration. <i>Ecohydrology</i> , 2020, 13, e2190.	2.4	12
50	Evaluating the carbon balance estimate from an automated ground-level flux chamber system in artificial grass mesocosms. <i>Ecology and Evolution</i> , 2013, 3, 4998-5010.	1.9	11
51	Short term effects of bisulphite on pollution-tolerant and pollution sensitive populations of <i>Sphagnum cuspidatum</i> Ehrh. (ex. Hoffm.). <i>New Phytologist</i> , 1991, 118, 425-431.	7.3	10
52	Architectural and physiological heterogeneity within the synflorescence of the pseudoviviparous grass <i>Poa alpina</i> var. <i>vivipara</i> L.. <i>Journal of Experimental Botany</i> , 2000, 51, 1705-1712.	4.8	10
53	Climate Variability May Delay Post-Fire Recovery of Boreal Forest in Southern Siberia, Russia. <i>Remote Sensing</i> , 2021, 13, 2247.	4.0	7
54	Vegetation Responses to Local Climatic Changes Induced by a Water-Storage Reservoir. <i>Global Ecology and Biogeography Letters</i> , 1998, 7, 241.	0.6	6

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55	Vegetation responses to local climatic changes induced by a water-storage reservoir. <i>Global Ecology and Biogeography</i> , 1998, 7, 241-257.	5.8	5
56	The influence of secondary senescence processes within the culm of a pseudoviviparous grass ( <i>Poa</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 1067-1075.	4.8	5
57	Export of carbon from leaf blades of <i>Poa alpina</i> L. at elevated CO <sub>2</sub> and two nutrient regimes. <i>Journal of Experimental Botany</i> , 1999, 50, 1215-1221.	4.8	5
58	Transition metals and the ability of <i>Sphagnum</i> to withstand the phytotoxic effects of the bisulphite ion. <i>New Phytologist</i> , 1991, 118, 433-439.	7.3	4
59	Species-specific effects of elevated CO <sub>2</sub> on resource allocation in <i>Plantago maritima</i> and <i>Armeria maritima</i> . <i>Biochemical Systematics and Ecology</i> , 2007, 35, 121-129.	1.3	4
60	Seasonal controls on net branch CO <sub>2</sub> assimilation in sub-Arctic Mountain Birch ( <i>Betula pubescens</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 4.8	4.8	3
61	Abundance and accessibility of forage for reindeer in forests of Northern Sweden: Impacts of landscape and winter climate regime. <i>Ecology and Evolution</i> , 2022, 12, e8820.	1.9	3