Daniel B Metcalfe

List of Publications by Citations

48 papers	2,568 citations	25 h-index	50 g-index
52 ext. papers	3,023 ext. citations	7.3 avg, IF	4.65 L-index

#	Paper	IF	Citations
48	Quantification of effects of season and nitrogen supply on tree below-ground carbon transfer to ectomycorrhizal fungi and other soil organisms in a boreal pine forest. *New Phytologist*, **2010**, 187, 485-493	9.8	274
47	Comprehensive assessment of carbon productivity, allocation and storage in three Amazonian forests. *Global Change Biology*, **2009**, 15, 1255-1274	11.4	248
46	Effect of 7 yr of experimental drought on vegetation dynamics and biomass storage of an eastern Amazonian rainforest. *New Phytologist*, **2010**, 187, 579-91	9.8	236
45	Are ectomycorrhizal fungi alleviating or aggravating nitrogen limitation of tree growth in boreal forests?. *New Phytologist*, **2013**, 198, 214-221	9.8	158
44	Linking vegetation change, carbon sequestration and biodiversity: insights from island ecosystems in a long-term natural experiment. *Journal of Ecology*, **2012**, 100, 16-30	6	151
43	Herbivory makes major contributions to ecosystem carbon and nutrient cycling in tropical forests. *Ecology Letters*, **2014**, 17, 324-32	10	140
42	Nutrient limitation in rainforests and cloud forests along a 3,000-m elevation gradient in the Peruvian Andes. *Oecologia*, **2013**, 172, 889-902	2.9	139
41	The effects of water availability on root growth and morphology in an Amazon rainforest. *Plant and Soil*, **2008**, 311, 189-199	4.2	113
40	The linkages between photosynthesis, productivity, growth and biomass in lowland Amazonian forests. *Global Change Biology*, **2015**, 21, 2283-95	11.4	105
39	Contrasting effects of low and high nitrogen additions on soil CO2 flux components and ectomycorrhizal fungal sporocarp production in a boreal forest. *Global Change Biology*, **2012**, 18, 3596-3605	11.4	96
38	Short-term dynamics of abiotic and biotic soil 13CO2 effluxes after in situ 13CO2 pulse labelling of a boreal pine forest. *New Phytologist*, **2009**, 183, 349-357	9.8	85
37	The productivity, metabolism and carbon cycle of two lowland tropical forest plots in south-western Amazonia, Peru. *Plant Ecology and Diversity*, **2014**, 7, 85-105	2.2	73
36	Patchy field sampling biases understanding of climate change impacts across the Arctic. *Nature Ecology and Evolution*, **2018**, 2, 1443-1448	12.3	71
35	The variation of productivity and its allocation along a tropical elevation gradient: a whole carbon budget perspective. *New Phytologist*, **2017**, 214, 1019-1032	9.8	68
34	After more than a decade of soil moisture deficit, tropical rainforest trees maintain photosynthetic capacity, despite increased leaf respiration. *Global Change Biology*, **2015**, 21, 4662-72	11.4	53
33	Ecosystem respiration and net primary productivity after 8–10 years of experimental through-fall reduction in an eastern Amazon forest. *Plant Ecology and Diversity*, **2014**, 7, 7-24	2.2	43
32	The production, allocation and cycling of carbon in a forest on fertile terra preta soil in eastern Amazonia compared with a forest on adjacent infertile soil. *Plant Ecology and Diversity*, **2014**, 7, 41-53	2.2	40

31	Seasonal production, allocation and cycling of carbon in two mid-elevation tropical montane forest plots in the Peruvian Andes. *Plant Ecology and Diversity*, **2014**, 7, 125-142	2.2	38
30	Ecosystem productivity and carbon cycling in intact and annually burnt forest at the dry southern limit of the Amazon rainforest (Mato Grosso, Brazil). *Plant Ecology and Diversity*, **2014**, 7, 25-40	2.2	36
29	Seasonal trends of Amazonian rainforest phenology, net primary productivity, and carbon allocation. *Global Biogeochemical Cycles*, **2016**, 30, 700-715	5.9	34
28	Impacts of experimentally imposed drought on leaf respiration and morphology in an Amazon rain forest. *Functional Ecology*, **2010**, 24, 524-533	5.6	33
27	Direct and Indirect Drivers of Moss Community Structure, Function, and Associated Microfauna Across a Successional Gradient. *Ecosystems*, **2015**, 18, 154-169	3.9	29
26	The productivity, allocation and cycling of carbon in forests at the dry margin of the Amazon forest in Bolivia. *Plant Ecology and Diversity*, **2014**, 7, 55-69	2.2	28
25	ENSO Drives interannual variation of forest woody growth across the tropics. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 373,	5.8	28
24	Distinct impacts of different mammalian herbivore assemblages on arctic tundra CO2 exchange during the peak of the growing season. *Oikos*, **2015**, 124, 1632-1638	4	25
23	The seasonal cycle of productivity, metabolism and carbon dynamics in a wet aseasonal forest in north-west Amazonia (Iquitos, Peru). *Plant Ecology and Diversity*, **2014**, 7, 71-83	2.2	22
22	Application of nitrogen fertilizer to a boreal pine forest has a negative impact on the respiration of ectomycorrhizal hyphae. *Plant and Soil*, **2012**, 352, 405-417	4.2	18
21	The biogeochemical consequences of litter transformation by insect herbivory in the Subarctic: a microcosm simulation experiment. *Biogeochemistry*, **2018**, 138, 323-336	3.8	17
20	Assessing above-ground woody debris dynamics along a gradient of elevation in Amazonian cloud forests in Peru: balancing above-ground inputs and respiration outputs. *Plant Ecology and Diversity*, **2014**, 7, 143-160	2.2	17
19	Nutrient fluxes from insect herbivory increase during ecosystem retrogression in boreal forest. *Ecology*, **2016**, 97, 124-32	4.6	15
18	Impacts of fire on sources of soil CO efflux in a dry Amazon rain forest. *Global Change Biology*, **2018**, 24, 3629-3641	11.4	15
17	Above-ground and below-ground responses to long-term nutrient addition across a retrogressive chronosequence. *Journal of Ecology*, **2016**, 104, 545-560	6	15
16	Identifying multidisciplinary research gaps across Arctic terrestrial gradients. *Environmental Research Letters*, **2019**, 14, 124061	6.2	14
15	Microbial change in warming soils. *Science*, **2017**, 358, 41-42	33.3	12
14	Below-ground responses to insect herbivory in ecosystems with woody plant canopies: A meta-analysis. *Journal of Ecology*, **2020**, 108, 917-930	6	12

13	The Global Ecosystems Monitoring network: Monitoring ecosystem productivity and carbon cycling across the tropics. *Biological Conservation*, **2021**, 253, 108889	6.2	12
12	Uneven global distribution of food web studies under climate change. *Ecosphere*, **2019**, 10, e02645	3.1	9
11	Above-Ground and Below-Ground Plant Responses to Fertilization in Two Subarctic Ecosystems. *Arctic, Antarctic, and Alpine Research*, **2015**, 47, 693-702	1.8	8
10	Informing climate models with rapid chamber measurements of forest carbon uptake. *Global Change Biology*, **2017**, 23, 2130-2139	11.4	7
9	Ecological stoichiometry and nutrient partitioning in two insect herbivores responsible for large-scale forest disturbance in the Fennoscandian subarctic. *Ecological Entomology*, **2019**, 44, 118-128	2.1	6
8	Effects of moisture dynamics on bryophyte carbon fluxes in a tropical cloud forest. *New Phytologist* , **2019**, 222, 1766-1777	9.8	5
7	Climate science: A sink down under. *Nature*, **2014**, 509, 566-7	50.4	4
6	Greater carbon allocation to mycorrhizal fungi reduces tree nitrogen uptake in a boreal forest. *Ecology*, **2016**,	4.6	3
5	Responses of tundra plant community carbon flux to experimental warming, dominant species removal and elevation. *Functional Ecology*, **2020**, 34, 1497-1506	5.6	3
4	Background insect herbivory increases with local elevation but makes minor contribution to element cycling along natural gradients in the Subarctic. *Ecology and Evolution*, **2020**, 10, 11684-11698	2.8	2
3	Fine root dynamics across pantropical rainforest ecosystems. *Global Change Biology*, **2021**, 27, 3657-3680	11.4	2
2	Reindeer control over subarctic treeline alters soil fungal communities with potential consequences for soil carbon storage. *Global Change Biology*, **2021**, 27, 4254-4268	11.4	2
1	Reviews and syntheses: Impacts of plant-silica–herbivore interactions on terrestrial biogeochemical cycling. *Biogeosciences*, **2021**, 18, 1259-1268	4.6	2