Daniel B Metcalfe

List of Publications by Year
in descending order

50 papers	3,358 citations	218592 26 h-index	189801 50 g-index
52 all docs	52 docs citations	52 times ranked	5357 citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of effects of season and nitrogen supply on tree belowâ€ground carbon transfer to ectomycorrhizal fungi and other soil organisms in a boreal pine forest. New Phytologist, 2010, 187, 485-493.	3.5	340
2	Effect of 7 yr of experimental drought on vegetation dynamics and biomass storage of an eastern Amazonian rainforest. New Phytologist, 2010, 187, 579-591.	3.5	293
3	Comprehensive assessment of carbon productivity, allocation and storage in three Amazonian forests. Global Change Biology, 2009, 15, 1255-1274.	4.2	280
4	Are ectomycorrhizal fungi alleviating or aggravating nitrogen limitation of tree growth in boreal forests?. New Phytologist, 2013, 198, 214-221.	3.5	214
5	Linking vegetation change, carbon sequestration and biodiversity: insights from island ecosystems in a longâ€term natural experiment. Journal of Ecology, 2012, 100, 16-30.	1.9	191
6	Nutrient limitation in rainforests and cloud forests along a 3,000-m elevation gradient in the Peruvian Andes. Oecologia, 2013, 172, 889-902.	0.9	187
7	Herbivory makes major contributions to ecosystem carbon and nutrient cycling in tropical forests. Ecology Letters, 2014, 17, 324-332.	3.0	176
8	The linkages between photosynthesis, productivity, growth and biomass in lowland Amazonian forests. Global Change Biology, 2015, 21, 2283-2295.	4.2	146
9	The effects of water availability on root growth and morphology in an Amazon rainforest. Plant and Soil, 2008, 311, 189-199.	1.8	134
10	Contrasting effects of low and high nitrogen additions on soil <scp>CO</scp>₂ flux components and ectomycorrhizal fungal sporocarp production in a boreal forest. Global Change Biology, 2012, 18, 3596-3605.	4.2	131
11	The variation of productivity and its allocation along a tropical elevation gradient: a whole carbon budget perspective. New Phytologist, 2017, 214, 1019-1032.	3.5	126
12	Patchy field sampling biases understanding of climate change impacts across the Arctic. Nature Ecology and Evolution, 2018, 2, 1443-1448.	3.4	112
13	Shortâ€term dynamics of abiotic and biotic soilÂ¹³CO₂ effluxes after <i>in situ</i>Â¹³CO₂ pulse labelling of a boreal pine forest. New Phytologist, 2009, 183, 349-357.	3.5	93
14	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.	1.0	82
15	After more than a decade of soil moisture deficit, tropical rainforest trees maintain photosynthetic capacity, despite increased leaf respiration. Global Change Biology, 2015, 21, 4662-4672.	4.2	67
16	Ecosystem respiration and net primary productivity after 8â€“10 years of experimental through-fall reduction in an eastern Amazon forest. Plant Ecology and Diversity, 2014, 7, 7-24.	1.0	52
17	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.	1.0	47
18	The production, allocation and cycling of carbon in a forest on fertile<i>terra preta</i>soil in eastern Amazonia compared with a forest on adjacent infertile soil. Plant Ecology and Diversity, 2014, 7, 41-53.	1.0	44

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19	Direct and Indirect Drivers of Moss Community Structure, Function, and Associated Microfauna Across a Successional Gradient. Ecosystems, 2015, 18, 154-169.	1.6	43
20	Seasonal trends of Amazonian rainforest phenology, net primary productivity, and carbon allocation. Global Biogeochemical Cycles, 2016, 30, 700-715.	1.9	43
21	The Global Ecosystems Monitoring network: Monitoring ecosystem productivity and carbon cycling across the tropics. Biological Conservation, 2021, 253, 108889.	1.9	42
22	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.	1.0	41
23	ENSO Drives interannual variation of forest woody growth across the tropics. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170410.	1.8	41
24	Impacts of experimentally imposed drought on leaf respiration and morphology in an Amazon rain forest. Functional Ecology, 2010, 24, 524-533.	1.7	39
25	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.	1.0	34
26	Distinct impacts of different mammalian herbivore assemblages on arctic tundra CO₂ exchange during the peak of the growing season. Oikos, 2015, 124, 1632-1638.	1.2	34
27	Belowâ€ground responses to insect herbivory in ecosystems with woody plant canopies: A metaâ€analysis. Journal of Ecology, 2020, 108, 917-930.	1.9	29
28	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.	1.0	25
29	Impacts of fire on sources of soil <scp>CO</scp>₂ efflux in a dry Amazon rain forest. Global Change Biology, 2018, 24, 3629-3641.	4.2	23
30	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.	1.8	22
31	Microbial change in warming soils. Science, 2017, 358, 41-42.	6.0	21
32	Identifying multidisciplinary research gaps across Arctic terrestrial gradients. Environmental Research Letters, 2019, 14, 124061.	2.2	21
33	The biogeochemical consequences of litter transformation by insect herbivory in the Subarctic: a microcosm simulation experiment. Biogeochemistry, 2018, 138, 323-336.	1.7	20
34	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.	1.0	19
35	Nutrient fluxes from insect herbivory increase during ecosystem retrogression in boreal forest. Ecology, 2016, 97, 124-132.	1.5	19
36	Aboveâ€ground and belowâ€ground responses to longâ€term nutrient addition across a retrogressive chronosequence. Journal of Ecology, 2016, 104, 545-560.	1.9	18

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37	Uneven global distribution of food web studies under climate change. Ecosphere, 2019, 10, e02645.	1.0	17
38	Fine root dynamics across pantropical rainforest ecosystems. Global Change Biology, 2021, 27, 3657-3680.	4.2	13
39	Effects of moisture dynamics on bryophyte carbon fluxes in a tropical cloud forest. New Phytologist, 2019, 222, 1766-1777.	3.5	12
40	Above-Ground and Below-Ground Plant Responses to Fertilization in Two Subarctic Ecosystems. Arctic, Antarctic, and Alpine Research, 2015, 47, 693-702.	0.4	11
41	Reindeer control over subarctic treeline alters soil fungal communities with potential consequences for soil carbon storage. Global Change Biology, 2021, 27, 4254-4268.	4.2	10
42	Informing climate models with rapid chamber measurements of forest carbon uptake. Global Change Biology, 2017, 23, 2130-2139.	4.2	9
43	Ecological stoichiometry and nutrient partitioning in two insect herbivores responsible for largeâ€scale forest disturbance in the Fennoscandian subarctic. Ecological Entomology, 2019, 44, 118-128.	1.1	7
44	Responses of tundra plant community carbon flux to experimental warming, dominant species removal and elevation. Functional Ecology, 2020, 34, 1497-1506.	1.7	7
45	A sink down under. Nature, 2014, 509, 566-567.	13.7	6
46	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.	0.8	5
47	Greater carbon allocation to mycorrhizal fungi reduces tree nitrogen uptake in a boreal forest. Ecology, 2016, , .	1.5	4
48	Reviews and syntheses: Impacts of plant-silicaâ€“herbivore interactions on terrestrial biogeochemical cycling. Biogeosciences, 2021, 18, 1259-1268.	1.3	3
49	Effects of Elevated Atmospheric CO2 Concentration on Insect Herbivory and Nutrient Fluxes in a Mature Temperate Forest. Forests, 2022, 13, 998.	0.9	3
50	â€˜High nitrogenâ€fixing rates associated with groundâ€covering mosses in a tropical mountain cloud forest will decrease drastically in a future climateâ€™. Functional Ecology, 0, , .	1.7	1