

Michael J Gundale

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

3,469
citations

32
h-index

58
g-index

92
ext. papers

4,334
ext. citations

6.6
avg, IF

5.65
L-index

| # | Paper | IF | Citations |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 84 | The impact of anthropogenic nitrogen deposition on global forests: Negative impacts far exceed the carbon benefits. <i>Global Change Biology</i> , 2021 , 28, 690 | 11.4 | 0 |
| 83 | Anthropogenic nitrogen enrichment increased the efficiency of belowground biomass production in a boreal forest. <i>Soil Biology and Biochemistry</i> , 2021 , 155, 108154 | 7.5 | 3 |
| 82 | European aspen with high compared to low constitutive tannin defenses grow taller in response to anthropogenic nitrogen enrichment. <i>Forest Ecology and Management</i> , 2021 , 487, 118985 | 3.9 | 2 |
| 81 | Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. <i>Scientific Data</i> , 2021 , 8, 136 | 8.2 | 4 |
| 80 | Multi-dimensionality as a path forward in plant-soil feedback research. <i>Journal of Ecology</i> , 2021 , 109, 3446 | 6 | 3 |
| 79 | Biochar increases tree biomass in a managed boreal forest, but does not alter N ₂ O, CH ₄ , and CO ₂ emissions. <i>GCB Bioenergy</i> , 2021 , 13, 1329-1342 | 5.6 | 3 |
| 78 | Soil biotic and abiotic effects on seedling growth exhibit context-dependent interactions: evidence from a multi-country experiment on <i>Pinus contorta</i> invasion. <i>New Phytologist</i> , 2021 , 232, 303-317 | 9.8 | 3 |
| 77 | Root trait-microbial relationships across tundra plant species. <i>New Phytologist</i> , 2021 , 229, 1508-1520 | 9.8 | 9 |
| 76 | Long-term nitrogen enrichment does not increase microbial phosphorus mobilization in a northern coniferous forest. <i>Functional Ecology</i> , 2021 , 35, 277-287 | 5.6 | 4 |
| 75 | Functional response of the soil microbial community to biochar applications. <i>GCB Bioenergy</i> , 2021 , 13, 269-281 | 5.6 | 12 |
| 74 | Empirical and Earth system model estimates of boreal nitrogen fixation often differ: A pathway toward reconciliation. <i>Global Change Biology</i> , 2021 , 27, 5711-5725 | 11.4 | 2 |
| 73 | Low and High Nitrogen Deposition Rates in Northern Coniferous Forests Have Different Impacts on Aboveground Litter Production, Soil Respiration, and Soil Carbon Stocks. <i>Ecosystems</i> , 2020 , 23, 1423-1436 | 3.9 | 10 |
| 72 | Pyrogenic Carbon Generation From Fire and Forest Restoration Treatments. <i>Frontiers in Forests and Global Change</i> , 2020 , 3, | 3.7 | 5 |
| 71 | Impacts of tree species identity and species mixing on ecosystem carbon and nitrogen stocks in a boreal forest. <i>Forest Ecology and Management</i> , 2020 , 458, 117783 | 3.9 | 12 |
| 70 | Effects of plant functional group removal on CO fluxes and belowground C stocks across contrasting ecosystems. <i>Ecology</i> , 2020 , 101, e03170 | 4.6 | 4 |
| 69 | Impact of plant functional group and species removals on soil and plant nitrogen and phosphorus across a retrogressive chronosequence. <i>Journal of Ecology</i> , 2020 , 108, 561-573 | 6 | 3 |
| 68 | Global distribution of earthworm diversity. <i>Science</i> , 2019 , 366, 480-485 | 33.3 | 113 |

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| 67 | Anthropogenic nitrogen enrichment enhances soil carbon accumulation by impacting saprotrophs rather than ectomycorrhizal fungal activity. <i>Global Change Biology</i> , 2019 , 25, 2900-2914 | 11.4 | 28 |
| 66 | Herbivore resistance in congeneric and sympatric <i>Nothofagus</i> species is not related to leaf habit. <i>American Journal of Botany</i> , 2019 , 106, 788-797 | 2.7 | 5 |
| 65 | Genetic increases in growth do not lead to trade-offs with ecologically important litter and fine root traits in Norway spruce. <i>Forest Ecology and Management</i> , 2019 , 446, 54-62 | 3.9 | 4 |
| 64 | Effects of plant functional group removal on structure and function of soil communities across contrasting ecosystems. <i>Ecology Letters</i> , 2019 , 22, 1095-1103 | 10 | 32 |
| 63 | Comparison of plant-soil feedback experimental approaches for testing soil biotic interactions among ecosystems. <i>New Phytologist</i> , 2019 , 221, 577-587 | 9.8 | 32 |
| 62 | Reply to: Data do not support large-scale oligotrophication of terrestrial ecosystems. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1287-1288 | 12.3 | 3 |
| 61 | Severity of impacts of an introduced species corresponds with regional eco-evolutionary experience. <i>Ecography</i> , 2019 , 42, 12-22 | 6.5 | 16 |
| 60 | The ratio of Gram-positive to Gram-negative bacterial PLFA markers as an indicator of carbon availability in organic soils. <i>Soil Biology and Biochemistry</i> , 2019 , 128, 111-114 | 7.5 | 122 |
| 59 | Anthropogenic deposition of heavy metals and phosphorus may reduce biological N fixation in boreal forest mosses. <i>Science of the Total Environment</i> , 2018 , 630, 203-210 | 10.2 | 9 |
| 58 | Consistent effects of biodiversity loss on multifunctionality across contrasting ecosystems. <i>Nature Ecology and Evolution</i> , 2018 , 2, 269-278 | 12.3 | 62 |
| 57 | Canopy cover type, and not fine-scale resource availability, explains native and exotic species richness in a landscape affected by anthropogenic fires and posterior land-use change. <i>Biological Invasions</i> , 2018 , 20, 385-398 | 2.7 | 6 |
| 56 | Isotopic evidence for oligotrophication of terrestrial ecosystems. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1735-1744 | 12.3 | 82 |
| 55 | Nutrient optimization of tree growth alters structure and function of boreal soil food webs. <i>Forest Ecology and Management</i> , 2018 , 428, 46-56 | 3.9 | 5 |
| 54 | Aspen phenylpropanoid genes expression levels correlate with genes tannin richness and vary both in responses to soil nitrogen and associations with phenolic profiles. <i>Tree Physiology</i> , 2017 , 37, 270-279 | 4.2 | 10 |
| 53 | Soil handling methods should be selected based on research questions and goals. <i>New Phytologist</i> , 2017 , 216, 18-23 | 9.8 | 23 |
| 52 | Nitrogen enrichment impacts on boreal litter decomposition are driven by changes in soil microbiota rather than litter quality. <i>Scientific Reports</i> , 2017 , 7, 4083 | 4.9 | 13 |
| 51 | Genotypic variability in <i>Populus tremula</i> L. affects how anthropogenic nitrogen enrichment influences litter decomposition. <i>Plant and Soil</i> , 2017 , 410, 467-481 | 4.2 | 7 |
| 50 | Differences in endophyte communities of introduced trees depend on the phylogenetic relatedness of the receiving forest. <i>Journal of Ecology</i> , 2016 , 104, 1219-1232 | 6 | 32 |

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| 49 | Seedling responses to changes in canopy and soil properties during stand development following clear-cutting. <i>Forest Ecology and Management</i> , 2016 , 378, 31-43 | 3.9 | 4 |
| 48 | Forest restoration treatments have subtle long-term effects on soil C and N cycling in mixed conifer forests. <i>Ecological Applications</i> , 2016 , 26, 1503-1516 | 4.9 | 12 |
| 47 | Effects of elevation and nitrogen and phosphorus fertilization on plant defence compounds in subarctic tundra heath vegetation. <i>Functional Ecology</i> , 2016 , 30, 314-325 | 5.6 | 40 |
| 46 | The impact of charcoal and soil mixtures on decomposition and soil microbial communities in boreal forest. <i>Applied Soil Ecology</i> , 2016 , 99, 40-50 | 5 | 16 |
| 45 | Nitrogen dynamics in managed boreal forests: Recent advances and future research directions. <i>Ambio</i> , 2016 , 45 Suppl 2, 175-87 | 6.5 | 49 |
| 44 | The effect of biochar management on soil and plant community properties in a boreal forest. <i>GCB Bioenergy</i> , 2016 , 8, 777-789 | 5.6 | 33 |
| 43 | Shifts in Aboveground Biomass Allocation Patterns of Dominant Shrub Species across a Strong Environmental Gradient. <i>PLoS ONE</i> , 2016 , 11, e0157136 | 3.7 | 6 |
| 42 | Chronic Nitrogen Deposition Has a Minor Effect on the Quantity and Quality of Aboveground Litter in a Boreal Forest. <i>PLoS ONE</i> , 2016 , 11, e0162086 | 3.7 | 10 |
| 41 | Trophic cascades in the bryosphere: the impact of global change factors on top-down control of cyanobacterial N ₂ -fixation. <i>Ecology Letters</i> , 2016 , 19, 967-76 | 10 | 23 |
| 40 | Impact of nitrogen deposition on forest and lake food webs in nitrogen-limited environments. <i>Global Change Biology</i> , 2016 , 22, 164-79 | 11.4 | 66 |
| 39 | Long-term declines in stream and river inorganic nitrogen (N) export correspond to forest change. <i>Ecological Applications</i> , 2016 , 26, 545-56 | 4.9 | 26 |
| 38 | Anthropogenic nitrogen deposition enhances carbon sequestration in boreal soils. <i>Global Change Biology</i> , 2015 , 21, 3169-80 | 11.4 | 113 |
| 37 | Nitrogen fixation rates associated with the feather mosses <i>Pleurozium schreberi</i> and <i>Hylocomium splendens</i> during forest stand development following clear-cutting. <i>Forest Ecology and Management</i> , 2015 , 347, 130-139 | 3.9 | 20 |
| 36 | Direct and Indirect Drivers of Moss Community Structure, Function, and Associated Microfauna Across a Successional Gradient. <i>Ecosystems</i> , 2015 , 18, 154-169 | 3.9 | 29 |
| 35 | Combined effects of anthropogenic fires and land-use change on soil properties and processes in Patagonia, Chile. <i>Forest Ecology and Management</i> , 2015 , 357, 60-67 | 3.9 | 18 |
| 34 | Genotypic Tannin Levels in <i>Populus tremula</i> Impact the Way Nitrogen Enrichment Affects Growth and Allocation Responses for Some Traits and Not for Others. <i>PLoS ONE</i> , 2015 , 10, e0140971 | 3.7 | 14 |
| 33 | Extreme defoliation reduces tree growth but not C and N storage in a winter-deciduous species. <i>Annals of Botany</i> , 2015 , 115, 1093-103 | 4.1 | 47 |
| 32 | Influence of species identity and charring conditions on fire-derived charcoal traits. <i>Canadian Journal of Forest Research</i> , 2015 , 45, 1669-1675 | 1.9 | 5 |

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| 31 | Impact of understory mosses and dwarf shrubs on soil micro-arthropods in a boreal forest chronosequence. <i>Plant and Soil</i> , 2014 , 379, 121-133 | 4.2 | 30 |
| 30 | Can model species be used to advance the field of invasion ecology?. <i>Biological Invasions</i> , 2014 , 16, 591-607 | | 32 |
| 29 | Stimulation of boreal tree seedling growth by wood-derived charcoal: effects of charcoal properties, seedling species and soil fertility. <i>Functional Ecology</i> , 2014 , 28, 766-775 | 5.6 | 44 |
| 28 | Interactions with soil biota shift from negative to positive when a tree species is moved outside its native range. <i>New Phytologist</i> , 2014 , 202, 415-421 | 9.8 | 81 |
| 27 | The Impact of Moss Species and Biomass on the Growth of <i>Pinus sylvestris</i> Tree Seedlings at Different Precipitation Frequencies. <i>Forests</i> , 2014 , 5, 1931-1951 | 2.8 | 21 |
| 26 | Anthropogenic nitrogen deposition in boreal forests has a minor impact on the global carbon cycle. <i>Global Change Biology</i> , 2014 , 20, 276-86 | 11.4 | 77 |
| 25 | Changes in local-scale intraspecific trait variability of dominant species across contrasting island ecosystems. <i>Ecosphere</i> , 2014 , 5, art26 | 3.1 | 14 |
| 24 | Decoupled long-term effects of nutrient enrichment on aboveground and belowground properties in subalpine tundra. <i>Ecology</i> , 2013 , 94, 904-919 | 4.6 | 50 |
| 23 | The impact of simulated chronic nitrogen deposition on the biomass and N-fixation activity of two boreal feather moss-cyanobacteria associations. <i>Biology Letters</i> , 2013 , 9, 20130797 | 3.6 | 29 |
| 22 | Bryophyte-cyanobacteria associations as regulators of the northern latitude carbon balance in response to global change. <i>Global Change Biology</i> , 2013 , 19, 2022-35 | 11.4 | 116 |
| 21 | Chemical properties of plant litter in response to elevation: subarctic vegetation challenges phenolic allocation theories. <i>Functional Ecology</i> , 2012 , 26, 1090-1099 | 5.6 | 36 |
| 20 | The interactive effects of temperature and light on biological nitrogen fixation in boreal forests. <i>New Phytologist</i> , 2012 , 194, 453-463 | 9.8 | 69 |
| 19 | Tree species versus regional controls on ecosystem properties and processes: an example using introduced <i>Pinus contorta</i> in Swedish boreal forests. This article is one of a selection of papers from the 7th International Conference on Disturbance Dynamics in Boreal Forests.. <i>Canadian Journal of Forest Research</i> , 2012 , 42, 1228-1238 | 1.9 | 14 |
| 18 | Nitrogen niches revealed through species and functional group removal in a boreal shrub community. <i>Ecology</i> , 2012 , 93, 1695-706 | 4.6 | 25 |
| 17 | Linking vegetation change, carbon sequestration and biodiversity: insights from island ecosystems in a long-term natural experiment. <i>Journal of Ecology</i> , 2012 , 100, 16-30 | 6 | 151 |
| 16 | The effect of altered macroclimate on N-fixation by boreal feather mosses. <i>Biology Letters</i> , 2012 , 8, 805-816 | 3.6 | 43 |
| 15 | Bryophytes attenuate anthropogenic nitrogen inputs in boreal forests. <i>Global Change Biology</i> , 2011 , 17, 2743-2753 | 11.4 | 146 |
| 14 | Resource heterogeneity does not explain the diversity-productivity relationship across a boreal island fertility gradient. <i>Ecography</i> , 2011 , 34, 887-896 | 6.5 | 34 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 13 | Vascular plant removal effects on biological N fixation vary across a boreal forest island gradient. <i>Ecology</i> , 2010 , 91, 1704-14 | 4.6 | 38 |
| 12 | Variation in protein complexation capacity among and within six plant species across a boreal forest chronosequence. <i>Plant Ecology</i> , 2010 , 211, 253-266 | 1.7 | 13 |
| 11 | The sensitivity of nitrogen fixation by a feathermoss-cyanobacteria association to litter and moisture variability in young and old boreal forests. <i>Canadian Journal of Forest Research</i> , 2009 , 39, 2542-2549 | 1.9 | 51 |
| 10 | Fire, native species, and soil resource interactions influence the spatio-temporal invasion pattern of <i>Bromus tectorum</i> . <i>Ecography</i> , 2008 , 31, 201-210 | 6.5 | 45 |
| 9 | Ecosystem feedbacks and nitrogen fixation in boreal forests. <i>Science</i> , 2008 , 320, 1181 | 33.3 | 136 |
| 8 | Charcoal effects on soil solution chemistry and growth of <i>Koeleria macrantha</i> in the ponderosa pine/Douglas-fir ecosystem. <i>Biology and Fertility of Soils</i> , 2006 , 43, 303-311 | 6.1 | 130 |
| 7 | Wildfire-Produced Charcoal Directly Influences Nitrogen Cycling in Ponderosa Pine Forests. <i>Soil Science Society of America Journal</i> , 2006 , 70, 448-453 | 2.5 | 328 |
| 6 | Temperature and source material influence ecological attributes of ponderosa pine and Douglas-fir charcoal. <i>Forest Ecology and Management</i> , 2006 , 231, 86-93 | 3.9 | 190 |
| 5 | Nitrogen spatial heterogeneity influences diversity following restoration in a ponderosa pine forest, Montana 2006 , 16, 479-89 | | 45 |
| 4 | Restoration treatments in a Montana ponderosa pine forest: Effects on soil physical, chemical and biological properties. <i>Forest Ecology and Management</i> , 2005 , 213, 25-38 | 3.9 | 100 |
| 3 | Susceptibility of a Northern Hardwood Forest to Exotic Earthworm Invasion. <i>Conservation Biology</i> , 2005 , 19, 1075-1083 | 6 | 60 |
| 2 | Influence of Exotic Earthworms on the Soil Organic Horizon and the Rare Fern <i>Botrychium mormo</i> . <i>Conservation Biology</i> , 2002 , 16, 1555-1561 | 6 | 103 |
| 1 | Effects of Soil Abiotic and Biotic Factors on Tree Seedling Regeneration Following a Boreal Forest Wildfire. <i>Ecosystems</i> , 1 | 3.9 | 1 |