

Michael J Gundale

List of Publications by Citations

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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	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
83	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
82	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
81	Bryophytes attenuate anthropogenic nitrogen inputs in boreal forests. <i>Global Change Biology</i> , 2011 , 17, 2743-2753	11.4	146
80	Ecosystem feedbacks and nitrogen fixation in boreal forests. <i>Science</i> , 2008 , 320, 1181	33.3	136
79	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
78	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
77	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
76	Global distribution of earthworm diversity. <i>Science</i> , 2019 , 366, 480-485	33.3	113
75	Anthropogenic nitrogen deposition enhances carbon sequestration in boreal soils. <i>Global Change Biology</i> , 2015 , 21, 3169-80	11.4	113
74	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
73	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
72	Isotopic evidence for oligotrophication of terrestrial ecosystems. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1735-1744	12.3	82
71	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
70	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
69	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
68	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

67	Consistent effects of biodiversity loss on multifunctionality across contrasting ecosystems. <i>Nature Ecology and Evolution</i> , 2018 , 2, 269-278	12.3	62
66	Susceptibility of a Northern Hardwood Forest to Exotic Earthworm Invasion. <i>Conservation Biology</i> , 2005 , 19, 1075-1083	6	60
65	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
64	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
63	Nitrogen dynamics in managed boreal forests: Recent advances and future research directions. <i>Ambio</i> , 2016 , 45 Suppl 2, 175-87	6.5	49
62	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
61	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
60	Nitrogen spatial heterogeneity influences diversity following restoration in a ponderosa pine forest, Montana 2006 , 16, 479-89		45
59	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
58	The effect of altered macroclimate on N-fixation by boreal feather mosses. <i>Biology Letters</i> , 2012 , 8, 805-86	3.6	43
57	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
56	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
55	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
54	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
53	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
52	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
51	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
50	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

49	Can model species be used to advance the field of invasion ecology?. <i>Biological Invasions</i> , 2014 , 16, 591-607		32
48	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
47	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
46	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
45	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
44	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
43	Nitrogen niches revealed through species and functional group removal in a boreal shrub community. <i>Ecology</i> , 2012 , 93, 1695-706	4.6	25
42	Soil handling methods should be selected based on research questions and goals. <i>New Phytologist</i> , 2017 , 216, 18-23	9.8	23
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	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
39	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
38	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
37	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
36	Severity of impacts of an introduced species corresponds with regional eco-evolutionary experience. <i>Ecography</i> , 2019 , 42, 12-22	6.5	16
35	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
34	Changes in local-scale intraspecific trait variability of dominant species across contrasting island ecosystems. <i>Ecosphere</i> , 2014 , 5, art26	3.1	14
33	Tree species versus regional controls on ecosystem properties and processes: an example using introduced <i>Pinus contorta</i> in Swedish boreal forests1This 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
32	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

31	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
30	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
29	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
28	Functional response of the soil microbial community to biochar applications. <i>GCB Bioenergy</i> , 2021 , 13, 269-281	5.6	12
27	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
26	Aspen phenylpropanoid gene expression levels correlate with gene 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
25	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
24	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
23	Root trait-microbial relationships across tundra plant species. <i>New Phytologist</i> , 2021 , 229, 1508-1520	9.8	9
22	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
21	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
20	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
19	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
18	Pyrogenic Carbon Generation From Fire and Forest Restoration Treatments. <i>Frontiers in Forests and Global Change</i> , 2020 , 3,	3.7	5
17	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
16	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
15	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
14	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

13	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
12	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. <i>Scientific Data</i> , 2021 , 8, 136	8.2	4
11	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
10	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
9	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
8	Multi-dimensionality as a path forward in plant-soil feedback research. <i>Journal of Ecology</i> , 2021 , 109, 3446	6	3
7	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
6	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
5	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
4	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
3	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
2	Effects of Soil Abiotic and Biotic Factors on Tree Seedling Regeneration Following a Boreal Forest Wildfire. <i>Ecosystems</i> , 1	3.9	1
1	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