Sarah E Hobbie

List of Publications by Citations

235 papers	26,417 citations	77 h-index	160 g-index
244 ext. papers	30,202 ext. citations	8 avg, IF	7.21 L-index

#	Paper	IF	Citations
235	Consequences of changing biodiversity. *Nature*, **2000**, 405, 234-42	47.5	2606
234	Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. *Ecology Letters*, **2008**, 11, 1065-71	9.8	1589
233	Stoichiometry of soil enzyme activity at global scale. *Ecology Letters*, **2008**, 11, 1252-1264	9.8	1143
232	Effects of plant species on nutrient cycling. *Trends in Ecology and Evolution*, **1992**, 7, 336-9	10.6	890
231	Temperature and Plant Species Control Over Litter Decomposition in Alaskan Tundra. *Ecological Monographs*, **1996**, 66, 503-522	8.7	733
230	Biological stoichiometry from genes to ecosystems. *Ecology Letters*, **2000**, 3, 540-550	9.8	685
229	Nitrogen limitation constrains sustainability of ecosystem response to CO2. *Nature*, **2006**, 440, 922-5	47.5	678
228	Consistent responses of soil microbial communities to elevated nutrient inputs in grasslands across the globe. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10967-72	11.1	641
227	Growth rate□toichiometry couplings in diverse biota. *Ecology Letters*, **2003**, 6, 936-943	9.8	588
226	Impacts of biodiversity loss escalate through time as redundancy fades. *Science*, **2012**, 336, 589-92	32.2	510
225	Linking litter calcium, earthworms and soil properties: a common garden test with 14 tree species. *Ecology Letters*, **2005**, 8, 811-818	9.8	476
224	Controls over carbon storage and turnover in high-latitude soils.. *Global Change Biology*, **2000**, 6, 196-210	11.2	443
223	Arctic and boreal ecosystems of western North America as components of the climate system.. *Global Change Biology*, **2000**, 6, 211-223	11.2	428
222	Plant functional types as predictors of transient responses of arctic vegetation to global change. *Journal of Vegetation Science*, **1996**, 7, 347-358	3	408
221	Tree species effects on decomposition and forest floor dynamics in a common garden. *Ecology*, **2006**, 87, 2288-97	4.5	404
220	Nutrient enrichment, biodiversity loss, and consequent declines in ecosystem productivity. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 11911-6	11.1	364
219	NUTRIENT LIMITATION OF DECOMPOSITION IN HAWAIIAN FORESTS. *Ecology*, **2000**, 81, 1867-1877	4.5	356

218	Global change and arctic ecosystems: is lichen decline a function of increases in vascular plant biomass?. *Journal of Ecology*, **2001**, 89, 984-994	6	313
217	Plant species effects on nutrient cycling: revisiting litter feedbacks. *Trends in Ecology and Evolution*, **2015**, 30, 357-63	10.6	265
216	Long-term ecosystem level experiments at Toolik Lake, Alaska, and at Abisko, Northern Sweden: generalizations and differences in ecosystem and plant type responses to global change. *Global Change Biology*, **2004**, 10, 105-123	11.2	257
215	Effects of Long-Term Nitrogen Addition on Microbial Enzyme Activity in Eight Forested and Grassland Sites: Implications for Litter and Soil Organic Matter Decomposition. *Ecosystems*, **2009**, 12, 1-15	3.8	253
214	THE RESPONSE OF TUNDRA PLANT BIOMASS, ABOVEGROUND PRODUCTION, NITROGEN, AND CO2 FLUX TO EXPERIMENTAL WARMING. *Ecology*, **1998**, 79, 1526-1544	4.5	238
213	Ecological homogenization of urban USA. *Frontiers in Ecology and the Environment*, **2014**, 12, 74-81	5.4	238
212	Metagenomic analysis reveals a marked divergence in the structure of belowground microbial communities at elevated CO2. *Ecology Letters*, **2010**, 13, 564-75	9.8	210
211	Contrasting Effects of Substrate and Fertilizer Nitrogen on the Early Stages of Litter Decomposition. *Ecosystems*, **2005**, 8, 644-656	3.8	205
210	Plant growth enhancement by elevated CO2 eliminated by joint water and nitrogen limitation. *Nature Geoscience*, **2014**, 7, 920-924	18	204
209	Interactions between Litter Lignin and Nitrogenitter Lignin and Soil Nitrogen Availability during Leaf Litter Decomposition in a Hawaiian Montane Forest. *Ecosystems*, **2000**, 3, 484-494	3.8	200
208	Fire frequency drives decadal changes in soil carbon and nitrogen and ecosystem productivity. *Nature*, **2018**, 553, 194-198	47.5	196
207	Nitrogen effects on decomposition: a five-year experiment in eight temperate sites. *Ecology*, **2008**, 89, 2633-44	4.5	196
206	Winter regulation of tundra litter carbon and nitrogen dynamics. *Biogeochemistry*, **1996**, 35, 327-338	3.8	198
205	Fine root decomposition rates do not mirror those of leaf litter among temperate tree species. *Oecologia*, **2010**, 162, 505-13	2.9	196
204	Comparison of Labile Soil Organic Matter Fractionation Techniques. *Soil Science Society of America Journal*, **2004**, 68, 1616-1625	2.5	191
203	A synthesis: The role of nutrients as constraints on carbon balances in boreal and arctic regions. *Plant and Soil*, **2002**, 242, 163-170	4.1	191
202	Conversion from agriculture to grassland builds soil organic matter on decadal timescales **2006**, 16, 143-53		188
201	Response of decomposing litter and its microbial community to multiple forms of nitrogen enrichment. *Ecological Monographs*, **2012**, 82, 389-405	8.7	181

200	Temperature and the chemical composition of poikilothermic organisms. *Functional Ecology*, **2003**, 17, 237-245	5.5	169
199	Root depth distribution and the diversity–productivity relationship in a long-term grassland experiment. *Ecology*, **2013**, 94, 787-793	4.5	168
198	Decade-long soil nitrogen constraint on the CO2 fertilization of plant biomass. *Nature Climate Change*, **2013**, 3, 278-282	21.1	167
197	Contrasting nitrogen and phosphorus budgets in urban watersheds and implications for managing urban water pollution. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 4177-4182	11.1	164
196	Sinks for nitrogen inputs in terrestrial ecosystems: a meta-analysis of 15N tracer field studies. *Ecology*, **2012**, 93, 1816-29	4.5	160
195	Social-ecological and technological factors moderate the value of urban nature. *Nature Sustainability*, **2019**, 2, 29-38	21.8	165
194	Tree Species Effects on Soil Organic Matter Dynamics: The Role of Soil Cation Composition. *Ecosystems*, **2007**, 10, 999-1018	3.8	158
193	Stoichiometric tracking of soil nutrients by a desert insect herbivore. *Ecology Letters*, **2003**, 6, 96-101	9.8	158
192	Climate, soil and plant functional types as drivers of global fine-root trait variation. *Journal of Ecology*, **2017**, 105, 1182-1196	6	151
191	Unexpected reversal of C versus C grass response to elevated CO during a 20-year field experiment. *Science*, **2018**, 360, 317-320	32.2	149
190	Plant diversity effects on soil food webs are stronger than those of elevated CO2 and N deposition in a long-term grassland experiment. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6889-94	11.1	146
189	Tree species effects on coupled cycles of carbon, nitrogen, and acidity in mineral soils at a common garden experiment. *Biogeochemistry*, **2012**, 111, 601-614	3.8	140
188	Geographic range predicts photosynthetic and growth response to warming in co-occurring tree species. *Nature Climate Change*, **2015**, 5, 148-152	21.1	137
187	Assessing the homogenization of urban land management with an application to US residential lawn care. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 4432-7	11.1	137
186	Early stages of root and leaf decomposition in Hawaiian forests: effects of nutrient availability. *Oecologia*, **1999**, 121, 564-573	2.9	131
185	Effects of climate warming on photosynthesis in boreal tree species depend on soil moisture. *Nature*, **2018**, 562, 263-267	47.5	128
184	The Role of Photodegradation in Surface Litter Decomposition Across a Grassland Ecosystem Precipitation Gradient. *Ecosystems*, **2010**, 13, 765-781	3.8	129
183	Spatial and temporal variation in islands of fertility in the Sonoran Desert. *Biogeochemistry*, **2005**, 73, 541-553	3.8	129

182	HETEROTROPHIC NITROGEN FIXATION IN DECOMPOSING LITTER: PATTERNS AND REGULATION. *Ecology*, **2000**, 81, 2366-2376	4.5	127
181	Decomposition of the finest root branching orders: linking belowground dynamics to fine-root function and structure. *Ecological Monographs*, **2011**, 81, 89-102	8.7	125
180	Factors influencing limit values for pine needle litter decomposition: a synthesis for boreal and temperate pine forest systems. *Biogeochemistry*, **2010**, 100, 57-73	3.8	124
179	Linkages between plant functional composition, fine root processes and potential soil N mineralization rates. *Journal of Ecology*, **2009**, 97, 48-56	6	120
178	Mechanisms driving the soil organic matter decomposition response to nitrogen enrichment in grassland soils. *Soil Biology and Biochemistry*, **2016**, 99, 54-65	7.4	116
177	Litter decomposition in moist acidic and non-acidic tundra with different glacial histories. *Oecologia* , **2004**, 140, 113-24	2.9	112
176	Spatially disjunct effects of co-occurring competition and facilitation. *Ecology Letters*, **2005**, 8, 1191-200	9.8	111
175	Foliar and soil nutrients in tundra on glacial landscapes of contrasting ages in northern Alaska. *Oecologia*, **2002**, 131, 453-462	2.9	109
174	An experimental test of limits to tree establishment in Arctic tundra. *Journal of Ecology*, **1998**, 86, 449-461	6	109
173	Plant spectral diversity integrates functional and phylogenetic components of biodiversity and predicts ecosystem function. *Nature Ecology and Evolution*, **2018**, 2, 976-982	12.1	108
172	Nitrogen addition changes grassland soil organic matter decomposition. *Biogeochemistry*, **2015**, 125, 203-219	3.8	107
171	The effects of substrate composition, quantity, and diversity on microbial activity. *Plant and Soil*, **2010**, 335, 397-411	4.1	103
170	Response of tundra CH4 and CO2 flux tomanipulation of temperature and vegetation. *Biogeochemistry*, **1998**, 41, 215-235	3.8	103
169	Plant Responses to Species Removal and Experimental Warming in Alaskan Tussock Tundra. *Oikos*, **1999**, 84, 417	3.9	100
168	Past, Present, and Future Roles of Long-Term Experiments in the LTER Network. *BioScience*, **2012**, 62, 377-389	5.6	98
167	Divergent effects of elevated CO2, N fertilization, and plant diversity on soil C and N dynamics in a grassland field experiment. *Plant and Soil*, **2005**, 272, 41-52	4.1	96
166	Anthropogenic nitrogen deposition predicts local grassland primary production worldwide. *Ecology*, **2015**, 96, 1459-1465	4.5	95
165	The phylogenetic composition and structure of soil microbial communities shifts in response to elevated carbon dioxide. *ISME Journal*, **2012**, 6, 259-72	11.6	95

164	Phylogenetic and functional characteristics of household yard floras and their changes along an urbanization gradient. *Ecology*, **2012**, 93, S83-S98	4.5	93
163	Contrasting dynamics and trait controls in first-order root compared with leaf litter decomposition. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10392-10397	11.1	88
162	Legume species identity and soil nitrogen supply determine symbiotic nitrogen-fixation responses to elevated atmospheric [CO2]. *New Phytologist*, **2005**, 167, 523-30	9.5	87
161	Luxury consumption of soil nutrients: a possible competitive strategy in above-ground and below-ground biomass allocation and root morphology for slow-growing arctic vegetation?. *Journal of Ecology*, **2003**, 91, 664-676	6	84
160	Nutrient and mineralogical control on dissolved organic C, N and P fluxes and stoichiometry in Hawaiian soils. *Biogeochemistry*, **2000**, 51, 283-302	3.8	84
159	Nitrogen deposition and plant species interact to influence soil carbon stabilization. *Ecology Letters* , **2004**, 7, 1192-1198	9.8	80
158	Carbon, nitrogen, and phosphorus fluxes in household ecosystems in the Minneapolis-Saint Paul, Minnesota, urban region **2011**, 21, 619-39		75
157	Interactive Effects of Time, CO2, N, and Diversity on Total Belowground Carbon Allocation and Ecosystem Carbon Storage in a Grassland Community. *Ecosystems*, **2009**, 12, 1037-1052	3.8	72
156	Effects of plant diversity, N fertilization, and elevated carbon dioxide on grassland soil N cycling in a long-term experiment. *Global Change Biology*, **2013**, 19, 1249-61	11.2	73
155	Carbon and Nitrogen Cycling in Soils from Acidic and Nonacidic Tundra with Different Glacial Histories in Northern Alaska. *Ecosystems*, **2002**, 5, 761-774	3.8	73
154	Reduced feeding activity of soil detritivores under warmer and drier conditions. *Nature Climate Change*, **2018**, 8, 75-78	21.1	70
153	Effects of pH and calcium on soil organic matter dynamics in Alaskan tundra. *Biogeochemistry*, **2012**, 111, 569-581	3.8	67
152	Nitrate is an important nitrogen source for Arctic tundra plants. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 3398-3403	11.1	67
151	The effect of experimental warming and precipitation change on proteolytic enzyme activity: positive feedbacks to nitrogen availability are not universal. *Global Change Biology*, **2012**, 18, 2617-2625	11.2	66
150	Elevated carbon dioxide alters the structure of soil microbial communities. *Applied and Environmental Microbiology*, **2012**, 78, 2991-5	4.6	66
149	Light, earthworms, and soil resources as predictors of diversity of 10 soil invertebrate groups across monocultures of 14 tree species. *Soil Biology and Biochemistry*, **2016**, 92, 184-198	7.4	65
148	Elevated CO2 stimulates grassland soil respiration by increasing carbon inputs rather than by enhancing soil moisture. *Global Change Biology*, **2011**, 17, 3546-3563	11.2	64
147	Root traits as drivers of plant and ecosystem functioning: current understanding, pitfalls and future research needs. *New Phytologist*, **2021**, 232, 1123-1158	9.5	67

146	Ectomycorrhizal fungal response to warming is linked to poor host performance at the boreal-temperate ecotone. *Global Change Biology*, **2017**, 23, 1598-1609	11.2	62
145	Ecosystem services in managing residential landscapes: priorities, value dimensions, and cross-regional patterns. *Urban Ecosystems*, **2016**, 19, 95-113	2.7	60
144	Effects of litter traits, soil biota, and soil chemistry on soil carbon stocks at a common garden with 14 tree species. *Biogeochemistry*, **2015**, 123, 313-327	3.8	61
143	Nematode community shifts in response to experimental warming and canopy conditions are associated with plant community changes in the temperate-boreal forest ecotone. *Oecologia*, **2014**, 175, 713-23	2.9	59
142	Contrasting influences of stormflow and baseflow pathways on nitrogen and phosphorus export from an urban watershed. *Biogeochemistry*, **2014**, 121, 209-228	3.8	59
141	Resource amendments influence density and competitive phenotypes of Streptomyces in soil. *Microbial Ecology*, **2009**, 57, 413-20	4.3	57
140	Is oak establishment in old-fields and savanna openings context dependent?. *Journal of Ecology*, **2007**, 95, 309-320	6	59
139	Convergence of microclimate in residential landscapes across diverse cities in the United States. *Landscape Ecology*, **2016**, 31, 101-117	4.3	59
138	Resource availability underlies the plant-fungal diversity relationship in a grassland ecosystem. *Ecology*, **2018**, 99, 204-216	4.5	58
137	Arctic shrub growth trajectories differ across soil moisture levels. *Global Change Biology*, **2017**, 23, 4294-4302	11.2	55
136	Soil Processes Affected by Sixteen Grassland Species Grown under Different Environmental Conditions. *Soil Science Society of America Journal*, **2006**, 70, 770-777	2.5	55
135	Global patterns in fine root decomposition: climate, chemistry, mycorrhizal association and woodiness. *Ecology Letters*, **2019**, 22, 946-953	9.8	54
134	Responses of moist non-acidic arctic tundra to altered environment: productivity, biomass, and species richness. *Oikos*, **2003**, 103, 204-216	3.9	54
133	Species compositional differences on different-aged glacial landscapes drive contrasting responses of tundra to nutrient addition. *Journal of Ecology*, **2005**, 93, 770-782	6	54
132	Mapping foliar functional traits and their uncertainties across three years in a grassland experiment. *Remote Sensing of Environment*, **2019**, 221, 405-416	12.8	52
131	Single-pool exponential decomposition models: potential pitfalls in their use in ecological studies. *Ecology*, **2010**, 91, 1225-36	4.5	53
130	Soil organic carbon stability in forests: Distinct effects of tree species identity and traits. *Global Change Biology*, **2018**, 25, 1529	11.2	52
129	Positive feedbacks between decomposition and soil nitrogen availability along fertility gradients. *Plant and Soil*, **2013**, 367, 347-361	4.1	52

128	Continental-scale homogenization of residential lawn plant communities. *Landscape and Urban Planning*, **2017**, 165, 54-63	7.6	51
127	Plant diversity, CO2, and N influence inorganic and organic N leaching in grasslands. *Ecology*, **2007**, 88, 490-500	4.5	52
126	Stoichiometric response of nitrogen-fixing and non-fixing dicots to manipulations of CO2, nitrogen, and diversity. *Oecologia*, **2007**, 151, 687-96	2.9	51
125	Species richness and traits predict overyielding in stem growth in an early-successional tree diversity experiment. *Ecology*, **2017**, 98, 2601-2614	4.5	48
124	Nature-based approaches to managing climate change impacts in cities. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2020**, 375, 20190124	5.7	49
123	Saltcedar (Tamarix ramosissima) invasion alters organic matter dynamics in a desert stream. *Freshwater Biology*, **2004**, 49, 65-76	3	48
122	The residential landscape: fluxes of elements and the role of household decisions. *Urban Ecosystems*, **2012**, 15, 1-18	2.7	47
121	Moving Towards a New Urban Systems Science. *Ecosystems*, **2017**, 20, 38-43	3.8	46
120	Convergent Surface Water Distributions in U.S. Cities. *Ecosystems*, **2014**, 17, 685-697	3.8	46
119	Design and performance of combined infrared canopy and belowground warming in the B4WarmED (Boreal Forest Warming at an Ecotone in Danger) experiment. *Global Change Biology*, **2015**, 21, 2334-48	11.2	45
118	Life-history evolution in the anthropocene: effects of increasing nutrients on traits and trade-offs. *Evolutionary Applications*, **2015**, 8, 635-49	4.7	43
117	Evolutionary Legacy Effects on Ecosystems: Biogeographic Origins, Plant Traits, and Implications for Management in the Era of Global Change. *Annual Review of Ecology, Evolution, and Systematics*, **2016**, 47, 433-462	13.2	43
116	Effects of plant species diversity, atmospheric [CO2], and N addition on gross rates of inorganic N release from soil organic matter. *Global Change Biology*, **2006**, 12, 1400-1408	11.2	41
115	Trees and Streets as Drivers of Urban Stormwater Nutrient Pollution. *Environmental Science & Technology*, **2017**, 51, 9569-9579	10.2	41
114	Ecological homogenization of residential macrosystems. *Nature Ecology and Evolution*, **2017**, 1, 191	12.1	43
113	Controls over leaf and litter calcium concentrations among temperate trees. *Biogeochemistry*, **2007**, 86, 175-187	3.8	40
112	The Diversity and Co-occurrence Patterns of N-Fixing Communities in a CO-Enriched Grassland Ecosystem. *Microbial Ecology*, **2016**, 71, 604-15	4.3	39
111	Fungal communities respond to long-term CO2 elevation by community reassembly. *Applied and Environmental Microbiology*, **2015**, 81, 2445-54	4.6	39

110	Elevated carbon dioxide accelerates the spatial turnover of soil microbial communities. *Global Change Biology*, **2016**, 22, 957-64	11.2	39
109	Metagenomic reconstruction of nitrogen cycling pathways in a CO2-enriched grassland ecosystem. *Soil Biology and Biochemistry*, **2017**, 106, 99-108	7.4	39
108	Homogenization of plant diversity, composition, and structure in North American urban yards. *Ecosphere*, **2018**, 9, e02105	3.1	37
107	Effect of consumption choices on fluxes of carbon, nitrogen and phosphorus through households. *Urban Ecosystems*, **2007**, 10, 97-117	2.7	38
106	Identifying environmental drivers of greenhouse gas emissions under warming and reduced rainfall in boreal□emperate forests. *Functional Ecology*, **2017**, 31, 2356-2368	5.5	36
105	Elevated CO□nfluences microbial carbon and nitrogen cycling. *BMC Microbiology*, **2013**, 13, 124	4.3	35
104	Do evergreen and deciduous trees have different effects on net N mineralization in soil?. *Ecology*, **2012**, 93, 1463-72	4.5	35
103	Tree Patches Show Greater N Losses but Maintain Higher Soil N Availability than Grassland Patches in a Frequently Burned Oak Savanna. *Ecosystems*, **2006**, 9, 441-452	3.8	36
102	Soil microbial, nematode, and enzymatic responses to elevated CO2, N fertilization, warming, and reduced precipitation. *Soil Biology and Biochemistry*, **2019**, 135, 184-193	7.4	35
101	Long-lasting effects on nitrogen cycling 12 years after treatments cease despite minimal long-term nitrogen retention. *Global Change Biology*, **2009**, 15, 1755-1766	11.2	35
100	ERADICATION OF INVASIVE TAMARIX RAMOSISSIMA ALONG A DESERT STREAM INCREASES NATIVE FISH DENSITY **2005**, 15, 2072-2083		35
99	Contribution of Leaf Litter to Nutrient Export during Winter Months in an Urban Residential Watershed. *Environmental Science & Technology*, **2017**, 51, 3138-3147	10.2	34
98	Effects of fire frequency on oak litter decomposition and nitrogen dynamics. *Oecologia*, **2008**, 158, 535-43	2.9	33
97	Decomposition of tree leaf litter on pavement: implications for urban water quality. *Urban Ecosystems*, **2014**, 17, 369-385	2.7	32
96	Biodiversity, Nitrogen Deposition, and CO2 Affect Grassland Soil Carbon Cycling but not Storage. *Ecosystems*, **2012**, 15, 580-590	3.8	32
95	Sensitivity of global soil carbon stocks to combined nutrient enrichment. *Ecology Letters*, **2019**, 22, 936-945	9.8	29
94	Oxygen-isotope record of Late-Glacial climatic change in western Ireland. *Boreas*, **2008**, 25, 257-267	2.4	26
93	Why □eed the Lawn□ Exploring the Influences on Residential Turf Grass Fertilization in the Minneapolis□aint Paul Metropolitan Area. *Environment and Behavior*, **2015**, 47, 158-183	5.4	25

92	Contrasting Responses of Nitrogen-Fixation in Arctic Lichens to Experimental and Ambient Nitrogen and Phosphorus Availability. *Arctic, Antarctic, and Alpine Research*, **2005**, 37, 396-401	1.8	25
91	Stoichiometric relations in an ant-treehopper mutualism. *Ecology Letters*, **2004**, 7, 1024-1028	9.8	25
90	Plant diversity maintains multiple soil functions in future environments. *ELife*, **2018**, 7,	8.6	25
89	Limited potential for terrestrial carbon sequestration to offset fossil-fuel emissions in the upper midwestern US. *Frontiers in Ecology and the Environment*, **2010**, 8, 409-413	5.4	24
88	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. *New Phytologist*, **2021**, 232, 973-1122	9.5	25
87	Plant nitrogen concentration and isotopic composition in residential lawns across seven US cities. *Oecologia*, **2016**, 181, 271-85	2.9	23
86	Long-term burning interacts with herbivory to slow decomposition. *Ecology*, **2008**, 89, 1188-94	4.5	23
85	Allometry of fine roots in forest ecosystems. *Ecology Letters*, **2019**, 22, 322-331	9.8	22
84	Effects of Landscape Age on Soil Organic Matter Processing in Northern Alaska. *Soil Science Society of America Journal*, **2011**, 75, 907-917	2.5	21
83	Influence of Terrestrial Vegetation on Sediment-Forming Processes in Kettle Lakes of West-Central Minnesota. *Quaternary Research*, **1992**, 38, 103-116	1.8	22
82	Effect of Simulated Climate Warming on the Ectomycorrhizal Fungal Community of Boreal and Temperate Host Species Growing Near Their Shared Ecotonal Range Limits. *Microbial Ecology*, **2018**, 75, 348-363	4.3	21
81	Restoring Abandoned Farmland to Mitigate Climate Change on a Full Earth. *One Earth*, **2020**, 3, 176-186	7.7	21
80	Drivers of plant species richness and phylogenetic composition in urban yards at the continental scale. *Landscape Ecology*, **2019**, 34, 63-77	4.3	20
79	Regional contingencies in the relationship between aboveground biomass and litter in the world's grasslands. *PLoS ONE*, **2013**, 8, e54988	3.6	20
78	Terrestrial Ecosystems at Toolik Lake, Alaska **2014**, 90-142		18
77	Urban trees reduce nutrient leaching to groundwater. *Ecological Applications*, **2016**, 26, 1566-1580	4.8	19
76	Ideas and perspectives: Strengthening the biogeosciences in environmental research networks. *Biogeosciences*, **2018**, 15, 4815-4832	4.5	18
75	Uniform shrub growth response to June temperature across the North Slope of Alaska. *Environmental Research Letters*, **2018**, 13, 044013	6.1	19

74	Functional diversity of leaf litter mixtures slows decomposition of labile but not recalcitrant carbon over two years. *Ecological Monographs*, **2020**, 90, e01407	8.7	19
73	Repeated fire shifts carbon and nitrogen cycling by changing plant inputs and soil decomposition across ecosystems. *Ecological Monographs*, **2020**, 90, e01409	8.7	16
72	Nutrient availability controls the impact of mammalian herbivores on soil carbon and nitrogen pools in grasslands. *Global Change Biology*, **2020**, 26, 2060	11.2	18
71	Fire effects on insect herbivores in an oak savanna: the role of light and nutrients. *Ecological Entomology*, **2007**, 32, 754-761	2	18
70	Satisfaction, water and fertilizer use in the American residential macrosystem. *Environmental Research Letters*, **2016**, 11, 034004	6.1	17
69	Sediment chemistry of urban stormwater ponds and controls on denitrification. *Ecosphere*, **2018**, 9, e02318	3.1	17
68	Urban plant diversity in Los Angeles, California: Species and functional type turnover in cultivated landscapes. *Plants People Planet*, **2020**, 2, 144-156	4	15
67	Disentangling species and functional group richness effects on soil N cycling in a grassland ecosystem. *Global Change Biology*, **2017**, 23, 4717-4727	11.2	16
66	Antagonistic effects of species on C respiration and net N mineralization in soils from mixed coniferous plantations. *Forest Ecology and Management*, **2009**, 257, 1112-1118	3.9	16
65	Belowground Biomass Response to Nutrient Enrichment Depends on Light Limitation Across Globally Distributed Grasslands. *Ecosystems*, **2019**, 22, 1466-1477	3.8	15
64	Strong photosynthetic acclimation and enhanced water-use efficiency in grassland functional groups persist over 21 years of CO enrichment, independent of nitrogen supply. *Global Change Biology*, **2019**, 25, 3031-3044	11.2	14
63	Urban soil carbon and nitrogen converge at a continental scale. *Ecological Monographs*, **2020**, 90, e01401	8.7	13
62	Linking yard plant diversity to homeowners landscaping priorities across the U.S. *Landscape and Urban Planning*, **2020**, 196, 103730	7.6	12
61	Synergistic effects of four climate change drivers on terrestrial carbon cycling. *Nature Geoscience*, **2020**, 13, 787-793	18	13
60	Organic nitrogen addition suppresses fungal richness and alters community composition in temperate forest soils. *Soil Biology and Biochemistry*, **2018**, 125, 222-230	7.4	12
59	Neighborhood diversity simultaneously increased and decreased susceptibility to contrasting herbivores in an early stage forest diversity experiment. *Journal of Ecology*, **2019**, 107, 1492-1505	6	12
58	Frequent burning causes large losses of carbon from deep soil layers in a temperate savanna. *Journal of Ecology*, **2020**, 108, 1426-1441	6	13
57	Strong mineralogic control of soil organic matter composition in response to nutrient addition across diverse grassland sites. *Science of the Total Environment*, **2020**, 736, 137839	10.1	12

56	Increasing effects of chronic nutrient enrichment on plant diversity loss and ecosystem productivity over time. *Ecology*, **2021**, 102, e03218	4.5	12
55	Decadal changes in fire frequencies shift tree communities and functional traits. *Nature Ecology and Evolution*, **2021**, 5, 504-512	12.1	12
54	Contribution of non-native plants to the phylogenetic homogenization of U.S. yard floras. *Ecosphere*, **2019**, 10, e02638	3.1	11
53	A multi-city comparison of front and backyard differences in plant species diversity and nitrogen cycling in residential landscapes. *Landscape and Urban Planning*, **2018**, 178, 102-111	7.6	10
52	Legumes regulate grassland soil N cycling and its response to variation in species diversity and N supply but not CO. *Global Change Biology*, **2019**, 25, 2396-2409	11.2	11
51	Municipal regulation of residential landscapes across US cities: Patterns and implications for landscape sustainability. *Journal of Environmental Management*, **2020**, 275, 111132	7.8	11
50	Horticultural availability and homeowner preferences drive plant diversity and composition in urban yards. *Ecological Applications*, **2020**, 30, e02082	4.8	11
49	Contrasting effects of plant species traits and moisture on the decomposition of multiple litter fractions. *Oecologia*, **2015**, 179, 573-84	2.9	9
48	Some plants like it warmer: Increased growth of three selected invasive plant species in soils with a history of experimental warming. *Pedobiologia*, **2014**, 57, 57-60	1.7	9
47	Diversity-dependent soil acidification under nitrogen enrichment constrains biomass productivity. *Global Change Biology*, **2020**, 26, 6594-6603	11.2	9
46	Low-intensity frequent fires in coniferous forests transform soil organic matter in ways that may offset ecosystem carbon losses. *Global Change Biology*, **2021**, 27, 3810-3823	11.2	9
45	Experimental nitrogen fertilisation globally accelerates, then slows decomposition of leaf litter. *Ecology Letters*, **2021**, 24, 802-811	9.8	9
44	Global change and arctic ecosystems: is lichen decline a function of increases in vascular plant biomass? **2001**, 89, 984		9
43	Stimulation of soil respiration by elevated CO is enhanced under nitrogen limitation in a decade-long grassland study. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 33317-33324	11.1	8
42	Impacts of Global Change on Composition of Arctic Communities: Implications for Ecosystem Functioning. *Ecological Studies*, **1997**, 221-228	1	8
41	Bioavailability of dissolved organic carbon across a hillslope chronosequence in the Kuparuk River region, Alaska. *Soil Biology and Biochemistry*, **2014**, 79, 25-33	7.4	7
40	Soil organic carbon is not just for soil scientists: measurement recommendations for diverse practitioners. *Ecological Applications*, **2021**, 31, e02290	4.8	7
39	Long-Term Nitrogen Addition Does Not Increase Soil Carbon Storage or Cycling Across Eight Temperate Forest and Grassland Sites on a Sandy Outwash Plain. *Ecosystems*, **2019**, 22, 1592-1605	3.8	6

38	Climate and lawn management interact to control C plant distribution in residential lawns across seven U.S. cities. *Ecological Applications*, **2019**, 29, e01884	4.8	6
37	Microbial functional genes commonly respond to elevated carbon dioxide. *Environment International*, **2020**, 144, 106068	12.8	6
36	Microbial processing of plant remains is co-limited by multiple nutrients in global grasslands. *Global Change Biology*, **2020**, 26, 4572-4582	11.2	6
35	Taxonomic, phylogenetic, and functional composition and homogenization of residential yard vegetation with contrasting management. *Landscape and Urban Planning*, **2020**, 202, 103877	7.6	6
34	A tale of two studies: Detection and attribution of the impacts of invasive plants in observational surveys. *Journal of Applied Ecology*, **2018**, 55, 1780-1789	5.7	5
33	Response to Comment on "Unexpected reversal of C versus C grass response to elevated CO during a 20-year field experiment". *Science*, **2018**, 361,	32.2	4
32	Interactive effects of plants, decomposers, herbivores, and predators on nutrient cycling233-259		5
31	Estimating litter decomposition rate in single-pool models using nonlinear beta regression. *PLoS ONE*, **2012**, 7, e45140	3.6	5
30	Disease and fire interact to influence transitions between savanna-forest ecosystems over a multi-decadal experiment. *Ecology Letters*, **2021**, 24, 1007-1017	9.8	5
29	HETEROTROPHIC NITROGEN FIXATION IN DECOMPOSING LITTER: PATTERNS AND REGULATION **2000**, 81, 2366		5
28	Hyphae move matter and microbes to mineral microsites: Integrating the hyphosphere into conceptual models of soil organic matter stabilization.. *Global Change Biology*, **2022**,	11.2	4
27	Potential impacts of emerald ash borer invasion on biogeochemical and water cycling in residential landscapes across a metropolitan region. *Urban Ecosystems*, **2012**, 15, 1015-1030	2.7	4
26	Warming and disturbance alter soil microbiome diversity and function in a northern forest ecotone. *FEMS Microbiology Ecology*, **2020**, 96,	4.2	4
25	SoDaH: the SOils DAta Harmonization database, an open-source synthesis of soil data from research networks, version 1.0. *Earth System Science Data*, **2021**, 13, 1843-1854	10.4	4
24	Effects of soil warming history on the performances of congeneric temperate and boreal herbaceous plant species and their associations with soil biota. *Journal of Plant Ecology*, **2016**, rtw066	1.7	3
23	Residential household yard care practices along urban-exurban gradients in six climatically-diverse U.S. metropolitan areas. *PLoS ONE*, **2019**, 14, e0222630	3.6	2
22	Response to Comment on "Unexpected reversal of C versus C grass response to elevated CO during a 20-year field experiment". *Science*, **2018**, 361,	32.2	3
21	Interactive effects of elevated CO , warming, reduced rainfall, and nitrogen on leaf gas exchange in five perennial grassland species. *Plant, Cell and Environment*, **2020**, 43, 1862-1878	8.1	3

20	Soil nutrients increase long-term soil carbon gains threefold on retired farmland. *Global Change Biology*, **2021**, 27, 4909-4920	11.2	3
19	Residential yard management and landscape cover affect urban bird community diversity across the continental USA. *Ecological Applications*, **2021**, 31, e02455	4.8	3
18	Sensitivity of grassland carbon pools to plant diversity, elevated CO, and soil nitrogen addition over 19 years. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.1	3
17	Resilience: insights from the U.S. LongTerm Ecological Research Network. *Ecosphere*, **2021**, 12, e03434	3.1	2
16	Remotely detected aboveground plant function predicts belowground processes in two prairie diversity experiments. *Ecological Monographs*,e1488	8.7	3
15	Planetary Stewardship Begins at Home. *Bulletin of the Ecological Society of America*, **2011**, 92, 389-391	0.2	2
14	Distinct carbon fractions drive a generalisable two-pool model of fungal necromass decomposition. *Functional Ecology*, **2021**, 35, 796-806	5.5	2
13	BII-Implementation: The causes and consequences of plant biodiversity across scales in a rapidly changing world. *Research Ideas and Outcomes*,7,	2.5	2
12	Ecological homogenisation in North American urban yards: vegetation diversity, composition, and structure		2
11	Dynamics of organic matter molecular composition under aerobic decomposition and their response to the nitrogen addition in grassland soils. *Science of the Total Environment*, **2022**, 806, 150514	10.1	2
10	Arctic Ecology. *Books in Soils, Plants, and the Environment*, **2007**,		1
9	TREE SPECIES EFFECTS ON DECOMPOSITION AND FOREST FLOOR DYNAMICS IN A COMMON GARDEN **2006**, 87, 2288		1
8	Top-down and bottom-up controls on soil carbon and nitrogen cycling with repeated burning across four ecosystems		1
7	Author response: Plant diversity maintains multiple soil functions in future environments **2018**,		1
6	Century-scale wood nitrogen isotope trajectories from an oak savanna with variable fire frequencies. *Biogeosciences*, **2020**, 17, 4509-4522	4.5	0
5	Patterns and trends of organic matter processing and transport: Insights from the US long-term ecological research network. *Climate Change Ecology*, **2021**, 2, 100025		0
4	Linking Foliar Traits to Belowground Processes **2020**, 173-197		0
3	The Qualities and Impacts of a Great Mentor and How to Improve your own Mentoring. *Bulletin of the Ecological Society of America*, **2013**, 94, 170-176	0.2	

2	A reply to Jarchow and Liebman. *Frontiers in Ecology and the Environment*, **2011**, 9, 262-263	5.4
1	Keeping up with the Times: Equity Issue is Now Added to Our Self-Reflection Worksheet for Improving Scientific Mentoring. *Bulletin of the Ecological Society of America*, **2021**, 102, e01841	0.2