

Sarah E Hobbie

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.

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	Hyphae move matter and microbes to mineral microsites: Integrating the hyphosphere into conceptual models of soil organic matter stabilization.. <i>Global Change Biology</i> , 2022 ,	11.2	4
234	Dynamics of organic matter molecular composition under aerobic decomposition and their response to the nitrogen addition in grassland soils. <i>Science of the Total Environment</i> , 2022 , 806, 150514	10.1	2
233	Root traits as drivers of plant and ecosystem functioning: current understanding, pitfalls and future research needs. <i>New Phytologist</i> , 2021 , 232, 1123-1158	9.5	67
232	Increasing effects of chronic nutrient enrichment on plant diversity loss and ecosystem productivity over time. <i>Ecology</i> , 2021 , 102, e03218	4.5	12
231	Distinct carbon fractions drive a generalisable two-pool model of fungal necromass decomposition. <i>Functional Ecology</i> , 2021 , 35, 796-806	5.5	2
230	Low-intensity frequent fires in coniferous forests transform soil organic matter in ways that may offset ecosystem carbon losses. <i>Global Change Biology</i> , 2021 , 27, 3810-3823	11.2	9
229	Soil nutrients increase long-term soil carbon gains threefold on retired farmland. <i>Global Change Biology</i> , 2021 , 27, 4909-4920	11.2	3
228	Residential yard management and landscape cover affect urban bird community diversity across the continental USA. <i>Ecological Applications</i> , 2021 , 31, e02455	4.8	3
227	Decadal changes in fire frequencies shift tree communities and functional traits. <i>Nature Ecology and Evolution</i> , 2021 , 5, 504-512	12.1	12
226	Keeping up with the Times: Equity Issue is Now Added to Our Self-Reflection Worksheet for Improving Scientific Mentoring. <i>Bulletin of the Ecological Society of America</i> , 2021 , 102, e01841	0.2	
225	Experimental nitrogen fertilisation globally accelerates, then slows decomposition of leaf litter. <i>Ecology Letters</i> , 2021 , 24, 802-811	9.8	9
224	Soil organic carbon is not just for soil scientists: measurement recommendations for diverse practitioners. <i>Ecological Applications</i> , 2021 , 31, e02290	4.8	7
223	Disease and fire interact to influence transitions between savanna-forest ecosystems over a multi-decadal experiment. <i>Ecology Letters</i> , 2021 , 24, 1007-1017	9.8	5
222	Sensitivity of grassland carbon pools to plant diversity, elevated CO ₂ , and soil nitrogen addition over 19 years. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.1	3
221	SoDaH: the SOils DAta Harmonization database, an open-source synthesis of soil data from research networks, version 1.0. <i>Earth System Science Data</i> , 2021 , 13, 1843-1854	10.4	4
220	Resilience: insights from the U.S. LongTerm Ecological Research Network. <i>Ecosphere</i> , 2021 , 12, e03434	3.1	2
219	Patterns and trends of organic matter processing and transport: Insights from the US long-term ecological research network. <i>Climate Change Ecology</i> , 2021 , 2, 100025		0

218	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. <i>New Phytologist</i> , 2021 , 232, 973-1122	9.5	25
217	Urban plant diversity in Los Angeles, California: Species and functional type turnover in cultivated landscapes. <i>Plants People Planet</i> , 2020 , 2, 144-156	4	15
216	Urban soil carbon and nitrogen converge at a continental scale. <i>Ecological Monographs</i> , 2020 , 90, e014018.7		13
215	Linking yard plant diversity to homeowners' landscaping priorities across the U.S. <i>Landscape and Urban Planning</i> , 2020 , 196, 103730	7.6	12
214	Microbial functional genes commonly respond to elevated carbon dioxide. <i>Environment International</i> , 2020 , 144, 106068	12.8	6
213	Restoring Abandoned Farmland to Mitigate Climate Change on a Full Earth. <i>One Earth</i> , 2020 , 3, 176-186	7.7	21
212	Synergistic effects of four climate change drivers on terrestrial carbon cycling. <i>Nature Geoscience</i> , 2020 , 13, 787-793	18	13
211	Municipal regulation of residential landscapes across US cities: Patterns and implications for landscape sustainability. <i>Journal of Environmental Management</i> , 2020 , 275, 111132	7.8	11
210	Diversity-dependent soil acidification under nitrogen enrichment constrains biomass productivity. <i>Global Change Biology</i> , 2020 , 26, 6594-6603	11.2	9
209	Warming and disturbance alter soil microbiome diversity and function in a northern forest ecotone. <i>FEMS Microbiology Ecology</i> , 2020 , 96,	4.2	4
208	Interactive effects of elevated CO ₂ , warming, reduced rainfall, and nitrogen on leaf gas exchange in five perennial grassland species. <i>Plant, Cell and Environment</i> , 2020 , 43, 1862-1878	8.1	3
207	Microbial processing of plant remains is co-limited by multiple nutrients in global grasslands. <i>Global Change Biology</i> , 2020 , 26, 4572-4582	11.2	6
206	Repeated fire shifts carbon and nitrogen cycling by changing plant inputs and soil decomposition across ecosystems. <i>Ecological Monographs</i> , 2020 , 90, e01409	8.7	16
205	Taxonomic, phylogenetic, and functional composition and homogenization of residential yard vegetation with contrasting management. <i>Landscape and Urban Planning</i> , 2020 , 202, 103877	7.6	6
204	Nutrient availability controls the impact of mammalian herbivores on soil carbon and nitrogen pools in grasslands. <i>Global Change Biology</i> , 2020 , 26, 2060	11.2	18
203	Functional diversity of leaf litter mixtures slows decomposition of labile but not recalcitrant carbon over two years. <i>Ecological Monographs</i> , 2020 , 90, e01407	8.7	19
202	Horticultural availability and homeowner preferences drive plant diversity and composition in urban yards. <i>Ecological Applications</i> , 2020 , 30, e02082	4.8	11
201	Frequent burning causes large losses of carbon from deep soil layers in a temperate savanna. <i>Journal of Ecology</i> , 2020 , 108, 1426-1441	6	13

200	Nature-based approaches to managing climate change impacts in cities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190124	5.7	49
199	Strong mineralogic control of soil organic matter composition in response to nutrient addition across diverse grassland sites. <i>Science of the Total Environment</i> , 2020 , 736, 137839	10.1	12
198	Stimulation of soil respiration by elevated CO ₂ is enhanced under nitrogen limitation in a decade-long grassland study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 33317-33324	11.1	8
197	Century-scale wood nitrogen isotope trajectories from an oak savanna with variable fire frequencies. <i>Biogeosciences</i> , 2020 , 17, 4509-4522	4.5	0
196	Linking Foliar Traits to Belowground Processes 2020 , 173-197		0
195	Residential household yard care practices along urban-exurban gradients in six climatically-diverse U.S. metropolitan areas. <i>PLoS ONE</i> , 2019 , 14, e0222630	3.6	2
194	Strong photosynthetic acclimation and enhanced water-use efficiency in grassland functional groups persist over 21 years of CO ₂ enrichment, independent of nitrogen supply. <i>Global Change Biology</i> , 2019 , 25, 3031-3044	11.2	14
193	Contribution of non-native plants to the phylogenetic homogenization of U.S. yard floras. <i>Ecosphere</i> , 2019 , 10, e02638	3.1	11
192	Soil microbial, nematode, and enzymatic responses to elevated CO ₂ , N fertilization, warming, and reduced precipitation. <i>Soil Biology and Biochemistry</i> , 2019 , 135, 184-193	7.4	35
191	Sensitivity of global soil carbon stocks to combined nutrient enrichment. <i>Ecology Letters</i> , 2019 , 22, 936-948	4.5	29
190	Global patterns in fine root decomposition: climate, chemistry, mycorrhizal association and woodiness. <i>Ecology Letters</i> , 2019 , 22, 946-953	9.8	54
189	Belowground Biomass Response to Nutrient Enrichment Depends on Light Limitation Across Globally Distributed Grasslands. <i>Ecosystems</i> , 2019 , 22, 1466-1477	3.8	15
188	Long-Term Nitrogen Addition Does Not Increase Soil Carbon Storage or Cycling Across Eight Temperate Forest and Grassland Sites on a Sandy Outwash Plain. <i>Ecosystems</i> , 2019 , 22, 1592-1605	3.8	6
187	Legumes regulate grassland soil N cycling and its response to variation in species diversity and N supply but not CO ₂ . <i>Global Change Biology</i> , 2019 , 25, 2396-2409	11.2	11
186	Climate and lawn management interact to control C plant distribution in residential lawns across seven U.S. cities. <i>Ecological Applications</i> , 2019 , 29, e01884	4.8	6
185	Neighborhood diversity simultaneously increased and decreased susceptibility to contrasting herbivores in an early stage forest diversity experiment. <i>Journal of Ecology</i> , 2019 , 107, 1492-1505	6	12
184	Drivers of plant species richness and phylogenetic composition in urban yards at the continental scale. <i>Landscape Ecology</i> , 2019 , 34, 63-77	4.3	20
183	Social-ecological and technological factors moderate the value of urban nature. <i>Nature Sustainability</i> , 2019 , 2, 29-38	21.8	165

182	Allometry of fine roots in forest ecosystems. <i>Ecology Letters</i> , 2019 , 22, 322-331	9.8	22
181	Mapping foliar functional traits and their uncertainties across three years in a grassland experiment. <i>Remote Sensing of Environment</i> , 2019 , 221, 405-416	12.8	52
180	Unexpected reversal of C versus C grass response to elevated CO during a 20-year field experiment. <i>Science</i> , 2018 , 360, 317-320	32.2	149
179	Reduced feeding activity of soil detritivores under warmer and drier conditions. <i>Nature Climate Change</i> , 2018 , 8, 75-78	21.1	70
178	A tale of two studies: Detection and attribution of the impacts of invasive plants in observational surveys. <i>Journal of Applied Ecology</i> , 2018 , 55, 1780-1789	5.7	5
177	Homogenization of plant diversity, composition, and structure in North American urban yards. <i>Ecosphere</i> , 2018 , 9, e02105	3.1	37
176	Nitrate is an important nitrogen source for Arctic tundra plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3398-3403	11.1	67
175	Effect of Simulated Climate Warming on the Ectomycorrhizal Fungal Community of Boreal and Temperate Host Species Growing Near Their Shared Ecotonal Range Limits. <i>Microbial Ecology</i> , 2018 , 75, 348-363	4.3	21
174	Plant spectral diversity integrates functional and phylogenetic components of biodiversity and predicts ecosystem function. <i>Nature Ecology and Evolution</i> , 2018 , 2, 976-982	12.1	108
173	A multi-city comparison of front and backyard differences in plant species diversity and nitrogen cycling in residential landscapes. <i>Landscape and Urban Planning</i> , 2018 , 178, 102-111	7.6	10
172	Sediment chemistry of urban stormwater ponds and controls on denitrification. <i>Ecosphere</i> , 2018 , 9, e02318	3.8	17
171	Organic nitrogen addition suppresses fungal richness and alters community composition in temperate forest soils. <i>Soil Biology and Biochemistry</i> , 2018 , 125, 222-230	7.4	12
170	Ideas and perspectives: Strengthening the biogeosciences in environmental research networks. <i>Biogeosciences</i> , 2018 , 15, 4815-4832	4.5	18
169	Response to Comment on "Unexpected reversal of C versus C grass response to elevated CO during a 20-year field experiment". <i>Science</i> , 2018 , 361,	32.2	3
168	Soil organic carbon stability in forests: Distinct effects of tree species identity and traits. <i>Global Change Biology</i> , 2018 , 25, 1529	11.2	52
167	Fire frequency drives decadal changes in soil carbon and nitrogen and ecosystem productivity. <i>Nature</i> , 2018 , 553, 194-198	47.5	196
166	Resource availability underlies the plant-fungal diversity relationship in a grassland ecosystem. <i>Ecology</i> , 2018 , 99, 204-216	4.5	58
165	Uniform shrub growth response to June temperature across the North Slope of Alaska. <i>Environmental Research Letters</i> , 2018 , 13, 044013	6.1	19

164	Effects of climate warming on photosynthesis in boreal tree species depend on soil moisture. <i>Nature</i> , 2018 , 562, 263-267	47.5	128
163	Contrasting dynamics and trait controls in first-order root compared with leaf litter decomposition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10392-10397	11.1	88
162	Response to Comment on "Unexpected reversal of C versus C grass response to elevated CO during a 20-year field experiment". <i>Science</i> , 2018 , 361,	32.2	4
161	Plant diversity maintains multiple soil functions in future environments. <i>ELife</i> , 2018 , 7,	8.6	25
160	Author response: Plant diversity maintains multiple soil functions in future environments 2018 ,		1
159	Species richness and traits predict overyielding in stem growth in an early-successional tree diversity experiment. <i>Ecology</i> , 2017 , 98, 2601-2614	4.5	48
158	Trees and Streets as Drivers of Urban Stormwater Nutrient Pollution. <i>Environmental Science & Technology</i> , 2017 , 51, 9569-9579	10.2	41
157	Identifying environmental drivers of greenhouse gas emissions under warming and reduced rainfall in boreal/temperate forests. <i>Functional Ecology</i> , 2017 , 31, 2356-2368	5.5	36
156	Moving Towards a New Urban Systems Science. <i>Ecosystems</i> , 2017 , 20, 38-43	3.8	46
155	Ectomycorrhizal fungal response to warming is linked to poor host performance at the boreal-temperate ecotone. <i>Global Change Biology</i> , 2017 , 23, 1598-1609	11.2	62
154	Contribution of Leaf Litter to Nutrient Export during Winter Months in an Urban Residential Watershed. <i>Environmental Science & Technology</i> , 2017 , 51, 3138-3147	10.2	34
153	Arctic shrub growth trajectories differ across soil moisture levels. <i>Global Change Biology</i> , 2017 , 23, 4294-4302	4.3	55
152	Climate, soil and plant functional types as drivers of global fine-root trait variation. <i>Journal of Ecology</i> , 2017 , 105, 1182-1196	6	151
151	Disentangling species and functional group richness effects on soil N cycling in a grassland ecosystem. <i>Global Change Biology</i> , 2017 , 23, 4717-4727	11.2	16
150	Ecological homogenization of residential macrosystems. <i>Nature Ecology and Evolution</i> , 2017 , 1, 191	12.1	43
149	Continental-scale homogenization of residential lawn plant communities. <i>Landscape and Urban Planning</i> , 2017 , 165, 54-63	7.6	51
148	Contrasting nitrogen and phosphorus budgets in urban watersheds and implications for managing urban water pollution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4177-4182	11.1	164
147	Metagenomic reconstruction of nitrogen cycling pathways in a CO ₂ -enriched grassland ecosystem. <i>Soil Biology and Biochemistry</i> , 2017 , 106, 99-108	7.4	39

146	Evolutionary Legacy Effects on Ecosystems: Biogeographic Origins, Plant Traits, and Implications for Management in the Era of Global Change. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2016 , 47, 433-462	13.2	43
145	Effects of soil warming history on the performances of congeneric temperate and boreal herbaceous plant species and their associations with soil biota. <i>Journal of Plant Ecology</i> , 2016 , rtw066	1.7	3
144	Satisfaction, water and fertilizer use in the American residential macrosystem. <i>Environmental Research Letters</i> , 2016 , 11, 034004	6.1	17
143	Urban trees reduce nutrient leaching to groundwater. <i>Ecological Applications</i> , 2016 , 26, 1566-1580	4.8	19
142	Ecosystem services in managing residential landscapes: priorities, value dimensions, and cross-regional patterns. <i>Urban Ecosystems</i> , 2016 , 19, 95-113	2.7	60
141	Light, earthworms, and soil resources as predictors of diversity of 10 soil invertebrate groups across monocultures of 14 tree species. <i>Soil Biology and Biochemistry</i> , 2016 , 92, 184-198	7.4	65
140	The Diversity and Co-occurrence Patterns of N-Fixing Communities in a CO ₂ -Enriched Grassland Ecosystem. <i>Microbial Ecology</i> , 2016 , 71, 604-15	4.3	39
139	Elevated carbon dioxide accelerates the spatial turnover of soil microbial communities. <i>Global Change Biology</i> , 2016 , 22, 957-64	11.2	39
138	Plant nitrogen concentration and isotopic composition in residential lawns across seven US cities. <i>Oecologia</i> , 2016 , 181, 271-85	2.9	23
137	Convergence of microclimate in residential landscapes across diverse cities in the United States. <i>Landscape Ecology</i> , 2016 , 31, 101-117	4.3	59
136	Mechanisms driving the soil organic matter decomposition response to nitrogen enrichment in grassland soils. <i>Soil Biology and Biochemistry</i> , 2016 , 99, 54-65	7.4	116
135	Nitrogen addition changes grassland soil organic matter decomposition. <i>Biogeochemistry</i> , 2015 , 125, 203-219	3.8	107
134	Anthropogenic nitrogen deposition predicts local grassland primary production worldwide. <i>Ecology</i> , 2015 , 96, 1459-1465	4.5	95
133	Why Weed the Lawn? Exploring the Influences on Residential Turf Grass Fertilization in the Minneapolis-Saint Paul Metropolitan Area. <i>Environment and Behavior</i> , 2015 , 47, 158-183	5.4	25
132	Plant species effects on nutrient cycling: revisiting litter feedbacks. <i>Trends in Ecology and Evolution</i> , 2015 , 30, 357-63	10.6	265
131	Effects of litter traits, soil biota, and soil chemistry on soil carbon stocks at a common garden with 14 tree species. <i>Biogeochemistry</i> , 2015 , 123, 313-327	3.8	61
130	Consistent responses of soil microbial communities to elevated nutrient inputs in grasslands across the globe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10967-72	11.1	641
129	Contrasting effects of plant species traits and moisture on the decomposition of multiple litter fractions. <i>Oecologia</i> , 2015 , 179, 573-84	2.9	9

128	Design and performance of combined infrared canopy and belowground warming in the B4WarmED (Boreal Forest Warming at an Ecotone in Danger) experiment. <i>Global Change Biology</i> , 2015 , 21, 2334-48	11.2	45
127	Geographic range predicts photosynthetic and growth response to warming in co-occurring tree species. <i>Nature Climate Change</i> , 2015 , 5, 148-152	21.1	137
126	Fungal communities respond to long-term CO ₂ elevation by community reassembly. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 2445-54	4.6	39
125	Life-history evolution in the anthropocene: effects of increasing nutrients on traits and trade-offs. <i>Evolutionary Applications</i> , 2015 , 8, 635-49	4.7	43
124	Ecological homogenization of urban USA. <i>Frontiers in Ecology and the Environment</i> , 2014 , 12, 74-81	5.4	238
123	Contrasting influences of stormflow and baseflow pathways on nitrogen and phosphorus export from an urban watershed. <i>Biogeochemistry</i> , 2014 , 121, 209-228	3.8	59
122	Convergent Surface Water Distributions in U.S. Cities. <i>Ecosystems</i> , 2014 , 17, 685-697	3.8	46
121	Plant growth enhancement by elevated CO ₂ eliminated by joint water and nitrogen limitation. <i>Nature Geoscience</i> , 2014 , 7, 920-924	18	204
120	Nematode community shifts in response to experimental warming and canopy conditions are associated with plant community changes in the temperate-boreal forest ecotone. <i>Oecologia</i> , 2014 , 175, 713-23	2.9	59
119	Decomposition of tree leaf litter on pavement: implications for urban water quality. <i>Urban Ecosystems</i> , 2014 , 17, 369-385	2.7	32
118	Bioavailability of dissolved organic carbon across a hillslope chronosequence in the Kuparuk River region, Alaska. <i>Soil Biology and Biochemistry</i> , 2014 , 79, 25-33	7.4	7
117	Some plants like it warmer: Increased growth of three selected invasive plant species in soils with a history of experimental warming. <i>Pedobiologia</i> , 2014 , 57, 57-60	1.7	9
116	Assessing the homogenization of urban land management with an application to US residential lawn care. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4432-7	11.1	137
115	Terrestrial Ecosystems at Toolik Lake, Alaska 2014 , 90-142		18
114	Root depth distribution and the diversity-productivity relationship in a long-term grassland experiment. <i>Ecology</i> , 2013 , 94, 787-793	4.5	168
113	Plant diversity effects on soil food webs are stronger than those of elevated CO ₂ and N deposition in a long-term grassland experiment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6889-94	11.1	146
112	Nutrient enrichment, biodiversity loss, and consequent declines in ecosystem productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11911-6	11.1	364
111	Positive feedbacks between decomposition and soil nitrogen availability along fertility gradients. <i>Plant and Soil</i> , 2013 , 367, 347-361	4.1	52

110	Effects of plant diversity, N fertilization, and elevated carbon dioxide on grassland soil N cycling in a long-term experiment. <i>Global Change Biology</i> , 2013 , 19, 1249-61	11.2	73
109	The Qualities and Impacts of a Great Mentor and How to Improve your own Mentoring. <i>Bulletin of the Ecological Society of America</i> , 2013 , 94, 170-176	0.2	
108	Elevated CO ₂ influences microbial carbon and nitrogen cycling. <i>BMC Microbiology</i> , 2013 , 13, 124	4.3	35
107	Decade-long soil nitrogen constraint on the CO ₂ fertilization of plant biomass. <i>Nature Climate Change</i> , 2013 , 3, 278-282	21.1	167
106	Regional contingencies in the relationship between aboveground biomass and litter in the world's grasslands. <i>PLoS ONE</i> , 2013 , 8, e54988	3.6	20
105	Response of decomposing litter and its microbial community to multiple forms of nitrogen enrichment. <i>Ecological Monographs</i> , 2012 , 82, 389-405	8.7	181
104	Phylogenetic and functional characteristics of household yard floras and their changes along an urbanization gradient. <i>Ecology</i> , 2012 , 93, S83-S98	4.5	93
103	Estimating litter decomposition rate in single-pool models using nonlinear beta regression. <i>PLoS ONE</i> , 2012 , 7, e45140	3.6	5
102	The phylogenetic composition and structure of soil microbial communities shifts in response to elevated carbon dioxide. <i>ISME Journal</i> , 2012 , 6, 259-72	11.6	95
101	Biodiversity, Nitrogen Deposition, and CO ₂ Affect Grassland Soil Carbon Cycling but not Storage. <i>Ecosystems</i> , 2012 , 15, 580-590	3.8	32
100	The effect of experimental warming and precipitation change on proteolytic enzyme activity: positive feedbacks to nitrogen availability are not universal. <i>Global Change Biology</i> , 2012 , 18, 2617-2625	11.2	66
99	The residential landscape: fluxes of elements and the role of household decisions. <i>Urban Ecosystems</i> , 2012 , 15, 1-18	2.7	47
98	Past, Present, and Future Roles of Long-Term Experiments in the LTER Network. <i>BioScience</i> , 2012 , 62, 377-389	5.6	98
97	Do evergreen and deciduous trees have different effects on net N mineralization in soil?. <i>Ecology</i> , 2012 , 93, 1463-72	4.5	35
96	Elevated carbon dioxide alters the structure of soil microbial communities. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 2991-5	4.6	66
95	Effects of pH and calcium on soil organic matter dynamics in Alaskan tundra. <i>Biogeochemistry</i> , 2012 , 111, 569-581	3.8	67
94	Tree species effects on coupled cycles of carbon, nitrogen, and acidity in mineral soils at a common garden experiment. <i>Biogeochemistry</i> , 2012 , 111, 601-614	3.8	140
93	Potential impacts of emerald ash borer invasion on biogeochemical and water cycling in residential landscapes across a metropolitan region. <i>Urban Ecosystems</i> , 2012 , 15, 1015-1030	2.7	4

92	Impacts of biodiversity loss escalate through time as redundancy fades. <i>Science</i> , 2012 , 336, 589-92	32.2	510
91	Sinks for nitrogen inputs in terrestrial ecosystems: a meta-analysis of 15N tracer field studies. <i>Ecology</i> , 2012 , 93, 1816-29	4.5	160
90	A reply to Jarchow and Liebman. <i>Frontiers in Ecology and the Environment</i> , 2011 , 9, 262-263	5.4	
89	Elevated CO ₂ stimulates grassland soil respiration by increasing carbon inputs rather than by enhancing soil moisture. <i>Global Change Biology</i> , 2011 , 17, 3546-3563	11.2	64
88	Decomposition of the finest root branching orders: linking belowground dynamics to fine-root function and structure. <i>Ecological Monographs</i> , 2011 , 81, 89-102	8.7	125
87	Planetary Stewardship Begins at Home. <i>Bulletin of the Ecological Society of America</i> , 2011 , 92, 389-391	0.2	2
86	Effects of Landscape Age on Soil Organic Matter Processing in Northern Alaska. <i>Soil Science Society of America Journal</i> , 2011 , 75, 907-917	2.5	21
85	Carbon, nitrogen, and phosphorus fluxes in household ecosystems in the Minneapolis-Saint Paul, Minnesota, urban region 2011 , 21, 619-39		75
84	Limited potential for terrestrial carbon sequestration to offset fossil-fuel emissions in the upper midwestern US. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 409-413	5.4	24
83	The Role of Photodegradation in Surface Litter Decomposition Across a Grassland Ecosystem Precipitation Gradient. <i>Ecosystems</i> , 2010 , 13, 765-781	3.8	129
82	Fine root decomposition rates do not mirror those of leaf litter among temperate tree species. <i>Oecologia</i> , 2010 , 162, 505-13	2.9	196
81	Factors influencing limit values for pine needle litter decomposition: a synthesis for boreal and temperate pine forest systems. <i>Biogeochemistry</i> , 2010 , 100, 57-73	3.8	124
80	The effects of substrate composition, quantity, and diversity on microbial activity. <i>Plant and Soil</i> , 2010 , 335, 397-411	4.1	103
79	Metagenomic analysis reveals a marked divergence in the structure of belowground microbial communities at elevated CO ₂ . <i>Ecology Letters</i> , 2010 , 13, 564-75	9.8	210
78	Single-pool exponential decomposition models: potential pitfalls in their use in ecological studies. <i>Ecology</i> , 2010 , 91, 1225-36	4.5	53
77	Effects of Long-Term Nitrogen Addition on Microbial Enzyme Activity in Eight Forested and Grassland Sites: Implications for Litter and Soil Organic Matter Decomposition. <i>Ecosystems</i> , 2009 , 12, 1-15	3.8	253
76	Interactive Effects of Time, CO ₂ , N, and Diversity on Total Belowground Carbon Allocation and Ecosystem Carbon Storage in a Grassland Community. <i>Ecosystems</i> , 2009 , 12, 1037-1052	3.8	72
75	Resource amendments influence density and competitive phenotypes of <i>Streptomyces</i> in soil. <i>Microbial Ecology</i> , 2009 , 57, 413-20	4.3	57

74	Long-lasting effects on nitrogen cycling 12 years after treatments cease despite minimal long-term nitrogen retention. <i>Global Change Biology</i> , 2009 , 15, 1755-1766	11.2	35
73	Linkages between plant functional composition, fine root processes and potential soil N mineralization rates. <i>Journal of Ecology</i> , 2009 , 97, 48-56	6	120
72	Antagonistic effects of species on C respiration and net N mineralization in soils from mixed coniferous plantations. <i>Forest Ecology and Management</i> , 2009 , 257, 1112-1118	3.9	16
71	Effects of fire frequency on oak litter decomposition and nitrogen dynamics. <i>Oecologia</i> , 2008 , 158, 535-539	4.3	33
70	Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. <i>Ecology Letters</i> , 2008 , 11, 1065-71	9.8	1589
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