Bruce A Hungate

List of Publications by Year
in descending order

220 papers	23,609 citations	8172 76 h-index	8852 145 g-index
248 all docs	248 docs citations	248 times ranked	21753 citing authors

#	Article	IF	Citations
1	A global synthesis reveals biodiversity loss as a major driver of ecosystem change. Nature, 2012, 486, 105-108.	13.7	1,750
2	Progressive Nitrogen Limitation of Ecosystem Responses to Rising Atmospheric Carbon Dioxide. BioScience, 2004, 54, 731.	2.2	1,092
3	Responses of terrestrial ecosystems to temperature and precipitation change: a metaâ€analysis of experimental manipulation. Global Change Biology, 2011, 17, 927-942.	4.2	1,066
4	ATMOSPHERIC SCIENCE: Nitrogen and Climate Change. Science, 2003, 302, 1512-1513.	6.0	735
5	Interactions between plant growth and soil nutrient cycling under elevated CO2 : a meta-analysis. Global Change Biology, 2006, 12, 2077-2091.	4.2	504
6	The fate of carbon in grasslands under carbon dioxide enrichment. Nature, 1997, 388, 576-579.	13.7	444
7	Biochar boosts tropical but not temperate crop yields. Environmental Research Letters, 2017, 12, 053001.	2.2	436
8	Altered soil microbial community at elevated CO2 leads to loss of soil carbon. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4990-4995.	3.3	434
9	Mycorrhizal association as a primary control of the CO ₂ fertilization effect. Science, 2016, 353, 72-74.	6.0	426
10	Increased soil emissions of potent greenhouse gases under increased atmospheric CO2. Nature, 2011, 475, 214-216.	13.7	413
11	A meta-analysis of responses of soil biota to global change. Oecologia, 2011, 165, 553-565.	0.9	378
12	Carbon-Nitrogen Interactions in Terrestrial Ecosystems in Response to Rising Atmospheric Carbon Dioxide. Annual Review of Ecology, Evolution, and Systematics, 2006, 37, 611-636.	3.8	366
13	Belowâ€ground process responses to elevated CO 2 and temperature: a discussion of observations, measurement methods, and models. New Phytologist, 2004, 162, 311-322.	3.5	358
14	Element interactions limit soil carbon storage. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6571-6574.	3.3	318
15	Protecting climate with forests. Environmental Research Letters, 2008, 3, 044006.	2.2	313
16	Global change, nitrification, and denitrification: A review. Global Biogeochemical Cycles, 2005, 19, .	1.9	310
17	Biophysical considerations in forestry for climate protection. Frontiers in Ecology and the Environment, 2011, 9, 174-182.	1.9	301
18	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO₂. New Phytologist, 2021, 229, 2413-2445.	3.5	286

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19	Linking Biodiversity and Ecosystem Services: Current Uncertainties and the Necessary Next Steps. BioScience, 2014, 64, 49-57.	2.2	285
20	Life and death in the soil microbiome: how ecological processes influence biogeochemistry. Nature Reviews Microbiology, 2022, 20, 415-430.	13.6	282
21	Nitrogen and phosphorus constrain the CO2 fertilization of global plant biomass. Nature Climate Change, 2019, 9, 684-689.	8.1	269
22	A trade-off between plant and soil carbon storage under elevated CO2. Nature, 2021, 591, 599-603.	13.7	268
23	Accelerated microbial turnover but constant growth efficiency with warming in soil. Nature Climate Change, 2014, 4, 903-906.	8.1	266
24	Faster Decomposition Under Increased Atmospheric CO ₂ Limits Soil Carbon Storage. Science, 2014, 344, 508-509.	6.0	266
25	Quantitative Microbial Ecology through Stable Isotope Probing. Applied and Environmental Microbiology, 2015, 81, 7570-7581.	1.4	242
26	A keystone microbial enzyme for nitrogen control of soil carbon storage. Science Advances, 2018, 4, eaaq1689.	4.7	234
27	MYCORRHIZAL CONTROLS ON BELOWGROUND LITTER QUALITY. Ecology, 2003, 84, 2302-2312.	1.5	226
28	13C and 15N natural abundance of the soil microbial biomass. Soil Biology and Biochemistry, 2006, 38, 3257-3266.	4.2	226
29	A Comprehensive Census of Microbial Diversity in Hot Springs of Tengchong, Yunnan Province China Using 16S rRNA Gene Pyrosequencing. PLoS ONE, 2013, 8, e53350.	1.1	216
30	Effect of temperature on metabolic activity of intact microbial communities: Evidence for altered metabolic pathway activity but not for increased maintenance respiration and reduced carbon use efficiency. Soil Biology and Biochemistry, 2011, 43, 2023-2031.	4.2	212
31	Sinks for nitrogen inputs in terrestrial ecosystems: a metaâ€analysis of ¹⁵N tracer field studies. Ecology, 2012, 93, 1816-1829.	1.5	192
32	<i>Staphylococcus aureus</i> and the ecology of the nasal microbiome. Science Advances, 2015, 1, e1400216.	4.7	189
33	MEASURING TERRESTRIAL SUBSIDIES TO AQUATIC FOOD WEBS USING STABLE ISOTOPES OF HYDROGEN. Ecology, 2007, 88, 1587-1592.	1.5	186
34	Plant growth promoting rhizobacteria are more effective under drought: a meta-analysis. Plant and Soil, 2017, 416, 309-323.	1.8	183
35	Assessing the effect of elevated carbon dioxide on soil carbon: a comparison of four metaâ€analyses. Global Change Biology, 2009, 15, 2020-2034.	4.2	180
36	Carbon protection and fire risk reduction: toward a full accounting of forest carbon offsets. Frontiers in Ecology and the Environment, 2008, 6, 493-498.	1.9	170

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37	Stimulation of grassland nitrogen cycling under carbon dioxide enrichment. Oecologia, 1997, 109, 149-153.	0.9	166
38	Contrasting effects of elevated CO2 on old and new soil carbon pools. Soil Biology and Biochemistry, 2001, 33, 365-373.	4.2	163
39	CO2 Elicits Long-Term Decline in Nitrogen Fixation. Science, 2004, 304, 1291-1291.	6.0	161
40	Carbon and water fluxes from ponderosa pine forests disturbed by wildfire and thinning. Ecological Applications, 2010, 20, 663-683.	1.8	154
41	Increased greenhouse-gas intensity of rice production under future atmospheric conditions. Nature Climate Change, 2013, 3, 288-291.	8.1	153
42	Phylogenetic organization of bacterial activity. ISME Journal, 2016, 10, 2336-2340.	4.4	150
43	Linking soil bacterial biodiversity and soil carbon stability. ISME Journal, 2015, 9, 1477-1480.	4.4	147
44	Recovery of ponderosa pine ecosystem carbon and water fluxes from thinning and standâ€replacing fire. Global Change Biology, 2012, 18, 3171-3185.	4.2	146
45	Ectomycorrhizal colonization slows root decomposition: the post-mortem fungal legacy. Ecology Letters, 2006, 9, 955-959.	3.0	144
46	¹⁵N enrichment as an integrator of the effects of C and N on microbial metabolism and ecosystem function. Ecology Letters, 2008, 11, 389-397.	3.0	142
47	Soil carbon loss with warming: New evidence from carbonâ€degrading enzymes. Global Change Biology, 2020, 26, 1944-1952.	4.2	141
48	Ecosystem responses to elevated <scp>CO</scp>₂ governed by plantâ€“soil interactions and the cost of nitrogen acquisition. New Phytologist, 2018, 217, 507-522.	3.5	139
49	Detecting changes in soil carbon in CO2 enrichment experiments. Plant and Soil, 1995, 187, 135-145.	1.8	134
50	Ammonia oxidation, denitrification and dissimilatory nitrate reduction to ammonium in two US Great Basin hot springs with abundant ammoniaâ€oxidizing archaea. Environmental Microbiology, 2011, 13, 2371-2386.	1.8	132
51	Elevated CO2 increases nitrogen fixation and decreases soil nitrogen mineralization in Florida scrub oak. Global Change Biology, 1999, 5, 781-789.	4.2	130
52	Male Circumcision Significantly Reduces Prevalence and Load of Genital Anaerobic Bacteria. MBio, 2013, 4, e00076.	1.8	130
53	Longâ€term impact of a standâ€replacing fire on ecosystem CO₂ exchange of a ponderosa pine forest. Global Change Biology, 2008, 14, 1801-1820.	4.2	128
54	Higher yields and lower methane emissions with new rice cultivars. Global Change Biology, 2017, 23, 4728-4738.	4.2	127

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55	Labile carbon input determines the direction and magnitude of the priming effect. Applied Soil Ecology, 2017, 109, 7-13.	2.1	125
56	Longâ€term nitrogen loading alleviates phosphorus limitation in terrestrial ecosystems. Global Change Biology, 2020, 26, 5077-5086.	4.2	123
57	Predicting soil carbon loss with warming. Nature, 2018, 554, E4-E5.	13.7	122
58	Title is missing!. Biogeochemistry, 1997, 37, 89-109.	1.7	121
59	Priming depletes soil carbon and releases nitrogen in a scrub-oak ecosystem exposed to elevated CO2. Soil Biology and Biochemistry, 2009, 41, 54-60.	4.2	114
60	Limits to soil carbon stability; Deep, ancient soil carbon decomposition stimulated by new labile organic inputs. Soil Biology and Biochemistry, 2016, 98, 85-94.	4.2	113
61	A general biodiversityâ€“function relationship is mediated by trophic level. Oikos, 2017, 126, 18-31.	1.2	112
62	Bacterial carbon use plasticity, phylogenetic diversity and the priming of soil organic matter. ISME Journal, 2017, 11, 1890-1899.	4.4	110
63	Evapotranspiration and soil water content in a scrub-oak woodland under carbon dioxide enrichment. Global Change Biology, 2002, 8, 289-298.	4.2	105
64	Effects of multiple global change treatments on soil N2O fluxes. Biogeochemistry, 2012, 109, 85-100.	1.7	101
65	SOIL HETEROGENEITY AND PLANT COMPETITION IN ANANNUAL GRASSLAND. Ecology, 1997, 78, 2076-2090.	1.5	99
66	Penile Microbiota and Female Partner Bacterial Vaginosis in Rakai, Uganda. MBio, 2015, 6, e00589.	1.8	96
67	Faster turnover of new soil carbon inputs under increased atmospheric <scp>CO</scp>₂. Global Change Biology, 2017, 23, 4420-4429.	4.2	96
68	The economic value of grassland species for carbon storage. Science Advances, 2017, 3, e1601880.	4.7	96
69	Plant Species Mediate Changes in Soil Microbial N in Response to Elevated CO2. Ecology, 1996, 77, 2505-2515.	1.5	93
70	Tree species mediated soil chemical changes in a Siberian artificial afforestation experiment. Plant and Soil, 2002, 242, 171-182.	1.8	90
71	Soil microbiota in two annual grasslands: responses to elevated atmospheric CO 2. Oecologia, 2000, 124, 589-598.	0.9	87
72	Biogeochemical and ecological feedbacks in grassland responses to warming. Nature Climate Change, 2012, 2, 458-461.	8.1	86

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73	Estimating taxonâ€specific population dynamics in diverse microbial communities. Ecosphere, 2018, 9, e02090.	1.0	85
74	Title is missing!. Plant and Soil, 2002, 242, 183-196.	1.8	83
75	Several components of global change alter nitrifying and denitrifying activities in an annual grassland. Functional Ecology, 2006, 20, 557-564.	1.7	83
76	Elevated atmospheric CO2 stimulates aboveground biomass in a fire-regenerated scrub-oak ecosystem. Global Change Biology, 2002, 8, 90-103.	4.2	82
77	Common bacterial responses in six ecosystems exposed to 10 years of elevated atmospheric carbon dioxide. Environmental Microbiology, 2012, 14, 1145-1158.	1.8	79
78	NITROGEN CYCLING DURING SEVEN YEARS OF ATMOSPHERIC CO2ENRICHMENT IN A SCRUB OAK WOODLAND. Ecology, 2006, 87, 26-40.	1.5	77
79	Modeling soil metabolic processes using isotopologue pairs of position-specific 13C-labeled glucose and pyruvate. Soil Biology and Biochemistry, 2011, 43, 1848-1857.	4.2	77
80	Elevated atmospheric CO2 lowers herbivore abundance, but increases leaf abscission rates. Global Change Biology, 2002, 8, 658-667.	4.2	76
81	Evolutionary history constrains microbial traits across environmental variation. Nature Ecology and Evolution, 2019, 3, 1064-1069.	3.4	76
82	Extensive belowground carbon storage supports roots and mycorrhizae in regenerating scrub oaks. Oecologia, 2002, 131, 542-548.	0.9	75
83	High carbon use efficiency in soil microbial communities is related to balanced growth, not storage compound synthesis. Soil Biology and Biochemistry, 2015, 89, 35-43.	4.2	74
84	Title is missing!. Biogeochemistry, 1997, 36, 223-237.	1.7	73
85	The Semen Microbiome and Its Relationship with Local Immunology and Viral Load in HIV Infection. PLoS Pathogens, 2014, 10, e1004262.	2.1	73
86	Stable isotope discrimination during soil denitrification: Production and consumption of nitrous oxide. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	71
87	Colonizing opportunistic pathogens (COPs): The beasts in all of us. PLoS Pathogens, 2017, 13, e1006369.	2.1	71
88	Dynamics of extracellular DNA decomposition and bacterial community composition in soil. Soil Biology and Biochemistry, 2015, 86, 42-49.	4.2	69
89	Decadal biomass increment in early secondary succession woody ecosystems is increased by CO2 enrichment. Nature Communications, 2019, 10, 454.	5.8	68
90	The soil priming effect: Consistent across ecosystems, elusive mechanisms. Soil Biology and Biochemistry, 2020, 140, 107617.	4.2	67

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91	Taxon-specific microbial growth and mortality patterns reveal distinct temporal population responses to rewetting in a California grassland soil. ISME Journal, 2020, 14, 1520-1532.	4.4	67
92	Predictive genomic traits for bacterial growth in culture versus actual growth in soil. ISME Journal, 2019, 13, 2162-2172.	4.4	66
93	Accounting for risk in valuing forest carbon offsets. Carbon Balance and Management, 2009, 4, 1.	1.4	65
94	Response of Terrestrial CH4 Uptake to Interactive Changes in Precipitation and Temperature Along a Climatic Gradient. Ecosystems, 2010, 13, 1157-1170.	1.6	65
95	The temperature sensitivity of soil: microbial biodiversity, growth, and carbon mineralization. ISME Journal, 2021, 15, 2738-2747.	4.4	65
96	Persistent effects of fire-induced vegetation change on energy partitioning and evapotranspiration in ponderosa pine forests. Agricultural and Forest Meteorology, 2009, 149, 491-500.	1.9	62
97	Penile Anaerobic Dysbiosis as a Risk Factor for HIV Infection. MBio, 2017, 8, .	1.8	62
98	Changing land use reduces soil CH₄ uptake by altering biomass and activity but not composition of highâ€affinity methanotrophs. Global Change Biology, 2008, 14, 2405-2419.	4.2	60
99	Coupling Between and Among Ammonia Oxidizers and Nitrite Oxidizers in Grassland Mesocosms Submitted to Elevated CO2 and Nitrogen Supply. Microbial Ecology, 2015, 70, 809-818.	1.4	60
100	Global warming and shifts in cropping systems together reduce China's rice production. Global Food Security, 2020, 24, 100359.	4.0	58
101	Seasonal patterns in microbial communities inhabiting the hot springs of <scp>T</scp>engchong, <scp>Y</scp>unnan Province, <scp>C</scp>hina. Environmental Microbiology, 2014, 16, 1579-1591.	1.8	57
102	Interactive effects of tree species and soil moisture on methane consumption. Soil Biology and Biochemistry, 2003, 35, 625-628.	4.2	56
103	Responses of soil cellulolytic fungal communities to elevated atmospheric CO₂ are complex and variable across five ecosystems. Environmental Microbiology, 2011, 13, 2778-2793.	1.8	56
104	Testing interactive effects of global environmental changes on soil nitrogen cycling. Ecosphere, 2011, 2, art56.	1.0	56
105	Restoring forest structure and process stabilizes forest carbon in wildfireâ€prone southwestern ponderosa pine forests. Ecological Applications, 2016, 26, 382-391.	1.8	56
106	Probing carbon flux patterns through soil microbial metabolic networks using parallel position-specific tracer labeling. Soil Biology and Biochemistry, 2011, 43, 126-132.	4.2	54
107	Stimulation of ammonia oxidizer and denitrifier abundances by nitrogen loading: Poor predictability for increased soil N₂O emission. Global Change Biology, 2022, 28, 2158-2168.	4.2	54
108	Managing for disturbance stabilizes forest carbon. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10193-10195.	3.3	52

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109	Nutrients cause consolidation of soil carbon flux to small proportion of bacterial community. Nature Communications, 2021, 12, 3381.	5.8	51
110	Predicting the Responses of Soil Nitrite-Oxidizers to Multi-Factorial Global Change: A Trait-Based Approach. Frontiers in Microbiology, 2016, 7, 628.	1.5	50
111	Soil mineral assemblage and substrate quality effects on microbial priming. Geoderma, 2018, 322, 38-47.	2.3	50
112	Ecosystem context illuminates conflicting roles of plant diversity in carbon storage. Ecology Letters, 2018, 21, 1604-1619.	3.0	50
113	The Functional Significance of Bacterial Predators. MBio, 2021, 12, .	1.8	48
114	Disturbance, rainfall and contrasting species responses mediated aboveground biomass response to 11 years of CO₂ enrichment in a Florida scrubâ€oak ecosystem. Global Change Biology, 2009, 15, 356-367.	4.2	47
115	Plant community feedbacks and long-term ecosystem responses to multi-factored global change. AoB PLANTS, 2014, 6, plu035-plu035.	1.2	47
116	Stream carbon and nitrogen supplements during leaf litter decomposition: contrasting patterns for two foundation species. Oecologia, 2014, 176, 1111-1121.	0.9	45
117	Fire affects the taxonomic and functional composition of soil microbial communities, with cascading effects on grassland ecosystem functioning. Global Change Biology, 2020, 26, 431-442.	4.2	45
118	Effects of Elevated Carbon Dioxide on Soils in a Florida Scrub Oak Ecosystem. Journal of Environmental Quality, 2001, 30, 501-507.	1.0	44
119	Impacts of Hurricane Frances on Florida scrub-oak ecosystem processes: defoliation, net CO2exchange and interactions with elevated CO2. Global Change Biology, 2007, 13, 1101-1113.	4.2	43
120	Cumulative response of ecosystem carbon and nitrogen stocks to chronic <scp>CO</scp>₂ exposure in a subtropical oak woodland. New Phytologist, 2013, 200, 753-766.	3.5	43
121	A call to investigate drivers of soil organic matter retention vs. mineralization in a high CO2 world. Soil Biology and Biochemistry, 2010, 42, 665-668.	4.2	42
122	Potential role of Thermus thermophilus and T.Âoshimai in high rates of nitrous oxide (N2O) production in â^¼80â€ƒÂ°C hot springs in the US Great Basin. Geobiology, 2011, 9, 471-480.	1.1	42
123	Measuring Nitrification, Denitrification, and Related Biomarkers in Terrestrial Geothermal Ecosystems. Methods in Enzymology, 2011, 486, 171-203.	0.4	42
124	THE EFFECTS OF ELEVATED CO2ON NUTRIENT DISTRIBUTION IN A FIRE-ADAPTED SCRUB OAK FOREST. , 2003, 13, 1388-1399.		41
125	C and N availability affects the 15 N natural abundance of the soil microbial biomass across a cattle manure gradient. European Journal of Soil Science, 2006, 57, 468-475.	1.8	41
126	Nitrogen stable isotope composition of leaves and roots of plants growing in a forest and a meadow. Isotopes in Environmental and Health Studies, 2003, 39, 29-39.	0.5	40

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127	Wildfire reduces carbon dioxide efflux and increases methane uptake in ponderosa pine forest soils of the southwestern USA. Biogeochemistry, 2011, 104, 251-265.	1.7	40
128	Ominous projections for global antibiotic use in food-animal production. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5554-5555.	3.3	40
129	Taxonomic patterns in the nitrogen assimilation of soil prokaryotes. Environmental Microbiology, 2018, 20, 1112-1119.	1.8	39
130	Relationships between C and N availability, substrate age, and natural abundance 13C and 15N signatures of soil microbial biomass in a semiarid climate. Soil Biology and Biochemistry, 2009, 41, 1605-1611.	4.2	38
131	Does deep soil N availability sustain longâ€term ecosystem responses to elevated CO₂?. Global Change Biology, 2009, 15, 2035-2048.	4.2	37
132	Using metabolic tracer techniques to assess the impact of tillage and straw management on microbial carbon use efficiency in soil. Soil Biology and Biochemistry, 2013, 66, 139-145.	4.2	37
133	The effects of 11Âyr of <scp>CO</scp>₂ enrichment on roots in a <scp>F</scp>lorida scrubâ€oak ecosystem. New Phytologist, 2013, 200, 778-787.	3.5	36
134	Effects of interactive global changes on methane uptake in an annual grassland. Journal of Geophysical Research, 2010, 115, .	3.3	35
135	New soil carbon sequestration with nitrogen enrichment: a meta-analysis. Plant and Soil, 2020, 454, 299-310.	1.8	35
136	Global Change Could Amplify Fire Effects on Soil Greenhouse Gas Emissions. PLoS ONE, 2011, 6, e20105.	1.1	35
137	Quantitative stable isotope probing with H2 Â18O reveals that most bacterial taxa in soil synthesize new ribosomal RNA. ISME Journal, 2018, 12, 3043-3045.	4.4	34
138	Long-term elevated CO2 shifts composition of soil microbial communities in a Californian annual grassland, reducing growth and N utilization potentials. Science of the Total Environment, 2019, 652, 1474-1481.	3.9	34
139	Lowerâ€thanâ€expected CH₄ emissions from rice paddies with rising CO₂ concentrations. Global Change Biology, 2020, 26, 2368-2376.	4.2	34
140	Stable-Isotope-Informed, Genome-Resolved Metagenomics Uncovers Potential Cross-Kingdom Interactions in Rhizosphere Soil. MSphere, 2021, 6, e0008521.	1.3	34
141	SOIL RESPONSES TO MANAGEMENT, INCREASED PRECIPITATION, AND ADDED NITROGEN IN PONDEROSA PINE FORESTS. , 2007, 17, 1352-1365.		33
142	Carbon Tradeoffs of Restoration and Provision of Endangered Species Habitat in a Fire-Maintained Forest. Ecosystems, 2015, 18, 76-88.	1.6	33
143	DECREASED LEAF-MINER ABUNDANCE IN ELEVATED CO2: REDUCED LEAF QUALITY AND INCREASED PARASITOID ATTACK. , 1999, 9, 240-244.		31
144	Rapid root closure after fire limits fine root responses to elevated atmospheric CO2 in a scrub oak ecosystem in central Florida, USA. Global Change Biology, 2006, 12, 1047-1053.	4.2	31

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145	Leaf-litter leachate is distinct in optical properties and bioavailability to stream heterotrophs. Freshwater Science, 2015, 34, 857-866.	0.9	31
146	Stable isotope probing with 18O-water to investigate microbial growth and death in environmental samples. Current Opinion in Biotechnology, 2016, 41, 14-18.	3.3	31
147	Responses of Ecosystem Carbon Cycling to Climate Change Treatments Along an Elevation Gradient. Ecosystems, 2011, 14, 1066-1080.	1.6	27
148	Climate-driven changes in forest succession and the influence of management on forest carbon dynamics in the Puget Lowlands of Washington State, USA. Forest Ecology and Management, 2016, 362, 194-204.	1.4	27
149	Microbial rRNA Synthesis and Growth Compared through Quantitative Stable Isotope Probing with H ₂ ¹⁸ O. Applied and Environmental Microbiology, 2018, 84, .	1.4	27
150	Ectomycorrhizal Colonization, Biomass, and Production in a Regenerating Scrub Oak Forest in Response to Elevated CO2. Ecosystems, 2003, 6, 424-430.	1.6	26
151	Plantâˆ’Soil Distribution of Potentially Toxic Elements in Response to Elevated Atmospheric CO₂. Environmental Science & Technology, 2011, 45, 2570-2574.	4.6	26
152	Elevated Carbon Dioxide and Litter Decomposition in California Annual Grasslands: Which Mechanisms Matter?. Ecosystems, 2002, 5, 171-183.	1.6	25
153	Root biomass and nutrient dynamics in a scrub-oak ecosystem under the influence of elevated atmospheric CO2. Plant and Soil, 2007, 292, 219-232.	1.8	25
154	Acclimation of photosynthesis and respiration to elevated atmospheric CO2 in two Scrub Oaks. Global Change Biology, 2002, 8, 317-328.	4.2	24
155	Natural abundance Î´15N and Î´13C of DNA extracted from soil. Soil Biology and Biochemistry, 2007, 39, 3101-3107.	4.2	24
156	Restoration of a ponderosa pine forest increases soil CO₂ efflux more than either water or nitrogen additions. Journal of Applied Ecology, 2008, 45, 913-920.	1.9	24
157	Seeing the forest for the trees: longâ€term exposure to elevated CO₂increases some herbivore densities. Global Change Biology, 2009, 15, 1895-1902.	4.2	24
158	Responses of soil nitrogen cycling to the interactive effects of elevated CO2 and inorganic N supply. Plant and Soil, 2010, 327, 35-47.	1.8	24
159	Warming induced changes in soil carbon and nitrogen influence priming responses in four ecosystems. Applied Soil Ecology, 2018, 124, 110-116.	2.1	24
160	Soil minerals affect taxon-specific bacterial growth. ISME Journal, 2022, 16, 1318-1326.	4.4	24
161	Aligning ecology and markets in the forest carbon cycle. Frontiers in Ecology and the Environment, 2013, 11, 37-42.	1.9	23
162	Linking tree genetics and stream consumers: isotopic tracers elucidate controls on carbon and nitrogen assimilation. Ecology, 2018, 99, 1759-1770.	1.5	22

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163	Ecosystem Responses to Rising Atmospheric CO2. , 1999, , 265-285.		22
164	Unexpected Parabolic Temperature Dependency of CH₄ Emissions from Rice Paddies. Environmental Science & Technology, 2022, 56, 4871-4881.	4.6	21
165	Direct and indirect effects of elevated CO2 on transpiration from Quercus myrtifolia in a scrub-oak ecosystem. Global Change Biology, 2003, 9, 96-105.	4.2	20
166	Tree species of the central amazon and soil moisture alter stable isotope composition of nitrogen and oxygen in nitrous oxide evolved from soil. Isotopes in Environmental and Health Studies, 2003, 39, 41-52.	0.5	20
167	Direct and legacy effects of longâ€term elevated <scp>CO</scp>₂ on fine root growth and plantâ€“insect interactions. New Phytologist, 2013, 200, 788-795.	3.5	20
168	Identification of growing bacteria during litter decomposition in freshwater through quantitative stable isotope probing. Environmental Microbiology Reports, 2016, 8, 975-982.	1.0	20
169	Glucose triggers strong taxonâ€specific responses in microbial growth and activity: insights from <scp>DNA</scp> and <scp>RNA qSIP</scp>. Ecology, 2020, 101, e02887.	1.5	20
170	Measurement Error and Resolution in Quantitative Stable Isotope Probing: Implications for Experimental Design. MSystems, 2020, 5, .	1.7	20
171	Rapid Response of Nitrogen Cycling Gene Transcription to Labile Carbon Amendments in a Soil Microbial Community. MSystems, 2021, 6, .	1.7	20
172	Effects of Elevated CO2 and Herbivore Damage on Litter Quality in a Scrub Oak Ecosystem. Journal of Chemical Ecology, 2005, 31, 2343-2356.	0.9	19
173	The Influence of Time and Plant Species on the Composition of the Decomposing Bacterial Community in a Stream Ecosystem. Microbial Ecology, 2016, 71, 825-834.	1.4	19
174	The Influence of Microbial Community Structure and Function on Community-Level Physiological Profiles. , 1997, , 171-183.		18
175	Application of a twoâ€pool model to soil carbon dynamics under elevated <scp>CO</scp>₂. Global Change Biology, 2015, 21, 4293-4297.	4.2	18
176	Managing forests infested by spruce beetles in south-central Alaska: Effects on nitrogen availability, understory biomass, and spruce regeneration. Forest Ecology and Management, 2006, 227, 267-274.	1.4	17
177	Elevated CO₂ mitigates the adverse effects of drought on daytime net ecosystem CO₂ exchange and photosynthesis in a Florida scrub-oak ecosystem. Photosynthetica, 2007, 45, 51-58.	0.9	17
178	Decreased growth of wild soil microbes after 15Âyears of transplantâ€induced warming in a montane meadow. Global Change Biology, 2022, 28, 128-139.	4.2	16
179	Nitrogen source influences natural abundance 15N of Escherichia coli. FEMS Microbiology Letters, 2008, 282, 246-250.	0.7	15
180	Plant genotype influences aquaticâ€terrestrial ecosystem linkages through timing and composition of insect emergence. Ecosphere, 2016, 7, e01331.	1.0	15

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181	Valuing ecosystems for climate. Nature Climate Change, 2012, 2, 151-152.	8.1	14
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