Whendee L Silver

List of Publications by Citations

Source: https://exaly.com/author-pdf/7359117/whendee-l-silver-publications-by-citations.pdf
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

174 papers	12,411 citations	62 h-index	109 g-index
188 ext. papers	14,269 ext. citations	6.5 avg, IF	6.54 L-index

#	Paper	IF	Citations
174	Global-scale similarities in nitrogen release patterns during long-term decomposition. *Science*, **2007**, 315, 361-4	33.3	851
173	Global patterns in root decomposition: comparisons of climate and litter quality effects. *Oecologia*, **2001**, 129, 407-419	2.9	617
172	Interactions between Aboveground and Belowground Biodiversity in Terrestrial Ecosystems: Patterns, Mechanisms, and Feedbacks. *BioScience*, **2000**, 50, 1049	5.7	486
171	The Potential for Carbon Sequestration Through Reforestation of Abandoned Tropical Agricultural and Pasture Lands. *Restoration Ecology*, **2000**, 8, 394-407	3.1	382
170	Simple three-pool model accurately describes patterns of long-term litter decomposition in diverse climates. *Global Change Biology*, **2008**, 14, 2636-2660	11.4	340
169	Relationships among net primary productivity, nutrients and climate in tropical rain forest: a pan-tropical analysis. *Ecology Letters*, **2011**, 14, 939-47	10	306
168	Changes in microbial community characteristics and soil organic matter with nitrogen additions in two tropical forests. *Ecology*, **2011**, 92, 621-32	4.6	294
167	Soil oxygen availability and biogeochemistry along rainfall and topographic gradients in upland wet tropical forest soils. *Biogeochemistry*, **1999**, 44, 301-328	3.8	282
166	DISSIMILATORY NITRATE REDUCTION TO AMMONIUM IN UPLAND TROPICAL FOREST SOILS. *Ecology*, **2001**, 82, 2410-2416	4.6	261
165	Effects of Soil Texture on Belowground Carbon and Nutrient Storage in a Lowland Amazonian Forest Ecosystem. *Ecosystems*, **2000**, 3, 193-209	3.9	257
164	Microbial communities acclimate to recurring changes in soil redox potential status. *Environmental Microbiology*, **2010**, 12, 3137-49	5.2	229
163	Nitrogen loss from soil through anaerobic ammonium oxidation coupled to iron reduction. *Nature Geoscience*, **2012**, 5, 538-541	18.3	224
162	Long-term patterns of mass loss during the decomposition of leaf and fine root litter: an intersite comparison. *Global Change Biology*, **2009**, 15, 1320-1338	11.4	205
161	Iron Reduction and Soil Phosphorus Solubilization in Humid Tropical Forests Soils: The Roles of Labile Carbon Pools and an Electron Shuttle Compound. *Biogeochemistry*, **2006**, 78, 67-84	3.8	172
160	Biodiversity recovery of Neotropical secondary forests. *Science Advances*, **2019**, 5, eaau3114	14.3	161
159	Soil organic matter dynamics during 80 years of reforestation of tropical pastures. *Global Change Biology*, **2009**, 15, 1584-1597	11.4	160
158	Iron oxidation stimulates organic matter decomposition in humid tropical forest soils. *Global Change Biology*, **2013**, 19, 2804-13	11.4	151

157	Pre-exposure to drought increases the resistance of tropical forest soil bacterial communities to extended drought. *ISME Journal*, **2013**, 7, 384-94	11.9	150
156	Controls on long-term root and leaf litter decomposition in neotropical forests. *Global Change Biology*, **2009**, 15, 1339-1355	11.4	150
155	The sensitivity of annual grassland carbon cycling to the quantity and timing of rainfall. *Global Change Biology*, **2008**, 14, 1382-1394	11.4	149
154	Characterization of trapped lignin-degrading microbes in tropical forest soil. *PLoS ONE*, **2011**, 6, e19306	3.7	143
153	Fine root dynamics and trace gas fluxes in two lowland tropical forest soils. *Global Change Biology*, **2005**, 11, 290-306	11.4	143
152	Effects of Global Changes on Above- and Belowground Biodiversity in Terrestrial Ecosystems: Implications for Ecosystem Functioning. *BioScience*, **2000**, 50, 1089	5.7	130
151	Direct nitrous oxide emissions in Mediterranean climate cropping systems: Emission factors based on a meta-analysis of available measurement data. *Agriculture, Ecosystems and Environment*, **2017**, 238, 25-35	5.7	129
150	Redox Fluctuations Frame Microbial Community Impacts on N-cycling Rates in a Humid Tropical Forest Soil. *Biogeochemistry*, **2006**, 81, 95-110	3.8	129
149	Nutrient availability in a montane wet tropical forest: Spatial patterns and methodological considerations. *Plant and Soil*, **1994**, 164, 129-145	4.2	126
148	Effects of nitrogen additions on above- and belowground carbon dynamics in two tropical forests. *Biogeochemistry*, **2011**, 104, 203-225	3.8	125
147	Tropical forest soil microbial communities couple iron and carbon biogeochemistry. *Ecology*, **2010**, 91, 2604-12	4.6	122
146	Fine Root Dynamics Following Single and Multiple Disturbances in a Subtropical Wet Forest Ecosystem. *Journal of Ecology*, **1993**, 81, 729	6	122
145	Effects of carbon additions on iron reduction and phosphorus availability in a humid tropical forest soil. *Soil Biology and Biochemistry*, **2009**, 41, 1696-1702	7.5	121
144	Beyond carbon and nitrogen: how the microbial energy economy couples elemental cycles in diverse ecosystems. *Frontiers in Ecology and the Environment*, **2011**, 9, 44-52	5.5	120
143	Temporal Dynamics in Soil Oxygen and Greenhouse Gases in Two Humid Tropical Forests. *Ecosystems*, **2011**, 14, 171-182	3.9	119
142	PLANT AND MICROBIAL CONTROLS ON NITROGEN RETENTION AND LOSS IN A HUMID TROPICAL FOREST. *Ecology*, **2008**, 89, 3030-3040	4.6	115
141	Impacts of organic matter amendments on carbon and nitrogen dynamics in grassland soils. *Soil Biology and Biochemistry*, **2014**, 68, 52-61	7.5	114
140	Oxygen effects on methane production and oxidation in humid tropical forest soils. *Global Change Biology*, **2005**, 11, 1283-1297	11.4	113

139	Biomass and Nutrient Content of the Bisley Experimental Watersheds, Luquillo Experimental Forest, Puerto Rico, Before and After Hurricane Hugo, 1989. *Biotropica*, **1993**, 25, 15	2.3	113
138	NITROGEN CYCLING IN TROPICAL PLANTATION FORESTS: POTENTIAL CONTROLS ON NITROGEN RETENTION **2005**, 15, 1604-1614		112
137	Dynamics of fine root carbon in Amazonian tropical ecosystems and the contribution of roots to soil respiration. *Global Change Biology*, **2006**, 12, 217-229	11.4	111
136	Biological Nitrogen Fixation in Two Tropical Forests: Ecosystem-Level Patterns and Effects of Nitrogen Fertilization. *Ecosystems*, **2009**, 12, 1299-1315	3.9	107
135	Long-term patterns in tropical reforestation: plant community composition and aboveground biomass accumulation **2007**, 17, 828-39		105
134	The challenges of measuring methane fluxes and concentrations over a peatland pasture. *Agricultural and Forest Meteorology*, **2012**, 153, 177-187	5.8	104
133	Is nutrient availability related to plant nutrient use in humid tropical forests?. *Oecologia*, **1994**, 98, 336-343	3.9	103
132	Litterfall and Decomposition in Relation to Soil Carbon Pools Along a Secondary Forest Chronosequence in Puerto Rico. *Ecosystems*, **2008**, 11, 701-714	3.9	100
131	CARBON SEQUESTRATION AND PLANT COMMUNITY DYNAMICS FOLLOWING REFORESTATION OF TROPICAL PASTURE **2004**, 14, 1115-1127		100
130	Greenhouse gas emissions from dairy manure management: a review of field-based studies. *Global Change Biology*, **2015**, 21, 550-65	11.4	97
129	Chemical and mineral control of soil carbon turnover in abandoned tropical pastures. *Geoderma*, **2008**, 143, 49-62	6.7	93
128	When Wet Gets Wetter: Decoupling of Moisture, Redox Biogeochemistry, and Greenhouse Gas Fluxes in a Humid Tropical Forest Soil. *Ecosystems*, **2013**, 16, 576-589	3.9	91
127	Cross-biome transplants of plant litter show decomposition models extend to a broader climatic range but lose predictability at the decadal time scale. *Global Change Biology*, **2009**, 16, 1744-1761	11.4	88
126	Large Greenhouse Gas Emissions from a Temperate Peatland Pasture. *Ecosystems*, **2011**, 14, 311-325	3.9	83
125	Introduction: Disturbance and Caribbean Ecosystems. *Biotropica*, **1996**, 28, 414	2.3	83
124	Strategies for Enhancing the Effectiveness of Metagenomic-based Enzyme Discovery in Lignocellulolytic Microbial Communities. *Bioenergy Research*, **2010**, 3, 146-158	3.1	82
123	Factors Affecting Mortality and Resistance to Damage Following Hurricanes in a Rehabilitated Subtropical Moist Forest1. *Biotropica*, **2005**, 37, 16-24	2.3	82
122	The response of heterotrophic activity and carbon cycling to nitrogen additions and warming in two tropical soils. *Global Change Biology*, **2010**, 16, 2555	11.4	80

121	Effects of organic matter amendments on net primary productivity and greenhouse gas emissions in annual grasslands **2013**, 23, 46-59		79
120	At What Temporal Scales Does Disturbance Affect Belowground Nutrient Pools?. *Biotropica*, **1996**, 28, 441	2.3	78
119	Belowground responses as indicators of environmental change. *Environmental and Experimental Botany*, **1993**, 33, 189-205	5.9	76
118	Drought drives rapid shifts in tropical rainforest soil biogeochemistry and greenhouse gas emissions. *Nature Communications*, **2018**, 9, 1348	17.4	75
117	Forest Floor Decomposition Following Hurricane Litter Inputs in Several Puerto Rican Forests. *Ecosystems*, **2003**, 6, 261-273	3.9	73
116	Some aspects of ecophysiological and biogeochemical responses of tropical forests to atmospheric change. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2004**, 359, 463-76	5.8	72
115	Legume abundance along successional and rainfall gradients in Neotropical forests. *Nature Ecology and Evolution*, **2018**, 2, 1104-1111	12.3	71
114	Soil oxygen availability and biogeochemistry along rainfall and topographic gradients in upland wet tropical forest soils. *Biogeochemistry*, **1999**, 44, 301-328	3.8	68
113	Belowground Response to Drought in a Tropical Forest Soil. I. Changes in Microbial Functional Potential and Metabolism. *Frontiers in Microbiology*, **2016**, 7, 525	5.7	63
112	Networking our science to characterize the state, vulnerabilities, and management opportunities of soil organic matter. *Global Change Biology*, **2018**, 24, e705-e718	11.4	61
111	The Effect of Phosphorus Availability on Decomposition Dynamics in a Seasonal Lowland Amazonian Forest. *Ecosystems*, **2004**, 7, 172-179	3.9	60
110	Impacts of disturbance initiated by road construction in a subtropical cloud forest in the Luquillo Experimental Forest, Puerto Rico. *Forest Ecology and Management*, **1998**, 109, 33-49	3.9	59
109	Sensitivity of soil respiration to variability in soil moisture and temperature in a humid tropical forest. *PLoS ONE*, **2013**, 8, e80965	3.7	58
108	Reducing conditions, reactive metals, and their interactions can explain spatial patterns of surface soil carbon in a humid tropical forest. *Biogeochemistry*, **2015**, 125, 149-165	3.8	57
107	Global patterns in fine root decomposition: climate, chemistry, mycorrhizal association and woodiness. *Ecology Letters*, **2019**, 22, 946-953	10	56
106	Strong spatial variability in trace gasdynamics following experimental drought in a humid tropical forest. *Global Biogeochemical Cycles*, **2012**, 26,	5.9	56
105	Variations in Belowground Carbon Storage and Soil CO2 Flux Rates along a Wet Tropical Climate Gradient1. *Biotropica*, **2000**, 32, 614	2.3	54
104	Ecological and Genomic Attributes of Novel Bacterial Taxa That Thrive in Subsurface Soil Horizons. *MBio*, **2019**, 10,	7.8	53

103	Long-term climate change mitigation potential with organic matter management on grasslands **2015**, 25, 531-45		50
102	Soil Carbon Pools in California Annual Grassland Ecosystems. *Rangeland Ecology and Management*, **2010**, 63, 128-136	2.2	50
101	Effects of Changes in Biodiversity on Ecosystem Function in Tropical Forests. *Conservation Biology*, **1996**, 10, 17-24	6	50
100	Assessing the carbon and climate benefit of restoring degraded agricultural peat soils to managed wetlands. *Agricultural and Forest Meteorology*, **2019**, 268, 202-214	5.8	49
99	Separate effects of flooding and anaerobiosis on soil greenhouse gas emissions and redox sensitive biogeochemistry. *Journal of Geophysical Research G: Biogeosciences*, **2014**, 119, 557-566	3.7	49
98	Suppression of methanogenesis by dissimilatory Fe(III)-reducing bacteria in tropical rain forest soils: implications for ecosystem methane flux. *Global Change Biology*, **2008**, 14, 413-422	11.4	49
97	Lignin decomposition is sustained under fluctuating redox conditions in humid tropical forest soils. *Global Change Biology*, **2015**, 21, 2818-2828	11.4	46
96	Redox Fluctuations Control the Coupled Cycling of Iron and Carbon in Tropical Forest Soils. *Environmental Science & Technology*, **2018**, 52, 14129-14139	10.3	44
95	A test of a field-based 15N nitrous oxide pool dilution technique to measure gross N2O production in soil. *Global Change Biology*, **2011**, 17, 3577-3588	11.4	43
94	Iron addition to soil specifically stabilized lignin. *Soil Biology and Biochemistry*, **2016**, 98, 95-98	7.5	43
93	Changes in microbial dynamics during long-term decomposition in tropical forests. *Soil Biology and Biochemistry*, **2013**, 66, 60-68	7.5	42
92	Hydrologic control on redox and nitrogen dynamics in a peatland soil. *Science of the Total Environment*, **2012**, 432, 37-46	10.2	40
91	The Potential Effects of Elevated Co2 and Climate Change on Tropical Forest Soils and Biogeochemical Cycling. *Climatic Change*, **1998**, 39, 337-361	4.5	39
90	Cross-biome assessment of gross soil nitrogen cycling in California ecosystems. *Soil Biology and Biochemistry*, **2017**, 107, 144-155	7.5	38
89	Effects of seasonality, transport pathway, and spatial structure on greenhouse gas fluxes in a restored wetland. *Global Change Biology*, **2017**, 23, 2768-2782	11.4	38
88	Breaking the enzymatic latch: impacts of reducing conditions on hydrolytic enzyme activity in tropical forest soils. *Ecology*, **2014**, 95, 2964-2973	4.6	38
87	Drivers and patterns of iron redox cycling from surface to bedrock in a deep tropical forest soil: a new conceptual model. *Biogeochemistry*, **2016**, 130, 177-190	3.8	38
86	Belowground Response to Drought in a Tropical Forest Soil. II. Change in Microbial Function Impacts Carbon Composition. *Frontiers in Microbiology*, **2016**, 7, 323	5.7	37

85	A Lifecycle Model to Evaluate Carbon Sequestration Potential and Greenhouse Gas Dynamics of Managed Grasslands. *Ecosystems*, **2013**, 16, 962-979	3.9	35
84	Experimentally induced root mortality increased nitrous oxide emission from tropical forest soils. *Geophysical Research Letters*, **2003**, 30,	4.9	35
83	Differential effects of canopy trimming and litter deposition on litterfall and nutrient dynamics in a wet subtropical forest. *Forest Ecology and Management*, **2014**, 332, 47-55	3.9	34
82	EFFECTS OF CHRONIC NITROGEN ADDITIONS ON UNDERSTORY SPECIES IN A RED PINE PLANTATION **1999**, 9, 949-957		33
81	Gross nitrous oxide production drives net nitrous oxide fluxes across a salt marsh landscape. *Global Change Biology*, **2016**, 22, 2228-37	11.4	29
80	Long-term impacts of manure amendments on carbon and greenhouse gas dynamics of rangelands. *Global Change Biology*, **2015**, 21, 4533-47	11.4	27
79	Large fluxes and rapid turnover of mineral-associated carbon across topographic gradients in a humid tropical forest: insights from paired ¹⁴C analysis. *Biogeosciences*, **2015**, 12, 2471-2487	4.6	27
78	Trends in Above and Belowground Carbon with Forest Regrowth After Agricultural Abandonment in the Neotropics **2008**, 22-72		27
77	Retention of phosphorus in highly weathered soils under a lowland Amazonian forest ecosystem. *Journal of Geophysical Research*, **2008**, 113,		26
76	Hot Spots and Hot Moments of Soil Moisture Explain Fluctuations in Iron and Carbon Cycling in a Humid Tropical Forest Soil. *Soil Systems*, **2018**, 2, 59	3.5	26
75	Soil properties and sediment accretion modulate methane fluxes from restored wetlands. *Global Change Biology*, **2018**, 24, 4107-4121	11.4	24
74	Soil-atmosphere nitrogen oxide fluxes: Effects of root disturbance. *Journal of Geophysical Research*, **2000**, 105, 17693-17698		24
73	Spatial patterns in oxygen and redox sensitive biogeochemistry in tropical forest soils. *Ecosphere*, **2015**, 6, art211	3.1	23
72	COSORE: A community database for continuous soil respiration and other soil-atmosphere greenhouse gas flux data. *Global Change Biology*, **2020**, 26, 7268-7283	11.4	22
71	New high precision approach for measuring 15NN2 gas fluxes from terrestrial ecosystems. *Soil Biology and Biochemistry*, **2014**, 69, 234-241	7.5	21
70	A decade of belowground reorganization following multiple disturbances in a subtropical wet forest. *Plant and Soil*, **2009**, 323, 197-212	4.2	21
69	Microbially mediated nitrogen retention and loss in a salt marsh soil. *Ecosphere*, **2015**, 6, art7	3.1	20
68	Net soil atmosphere fluxes mask patterns in gross production and consumption of nitrous oxide and methane in a managed ecosystem. *Biogeosciences*, **2016**, 13, 1705-1715	4.6	20

67	Ideas and perspectives: Strengthening the biogeosciences in environmental research networks. *Biogeosciences*, **2018**, 15, 4815-4832	4.6	19
66	Carbon dioxide exchange of a pepperweed (Lepidium latifolium L.) infestation: How do flowering and mowing affect canopy photosynthesis and autotrophic respiration?. *Journal of Geophysical Research*, **2011**, 116,		19
65	Atypical soil carbon distribution across a tropical steepland forest catena. *Catena*, **2011**, 87, 391-397	5.8	19
64	Survival, Growth, and Ecosystem Dynamics of Displaced Bromeliads in a Montane Tropical Forest1. *Biotropica*, **2002**, 34, 211-224	2.3	19
63	The potential of agricultural land management to contribute to lower global surface temperatures. *Science Advances*, **2018**, 4, eaaq0932	14.3	19
62	Effects of soil structure destruction on methane production and carbon partitioning between methanogenic pathways in tropical rain forest soils. *Journal of Geophysical Research*, **2006**, 111,		18
61	Carbon isotope fractionation by methane-oxidizing bacteria in tropical rain forest soils. *Journal of Geophysical Research*, **2006**, 111, n/a-n/a		18
60	Phosphorus Fractionation Responds to Dynamic Redox Conditions in a Humid Tropical Forest Soil. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 3016-3027	3.7	16
59	Evaluating the Classical Versus an Emerging Conceptual Model of Peatland Methane Dynamics. *Global Biogeochemical Cycles*, **2017**, 31, 1435-1453	5.9	16
58	Application of the N(2)/Ar technique to measuring soil-atmosphere N(2) fluxes. *Rapid Communications in Mass Spectrometry*, **2012**, 26, 449-59	2.2	16
57	Anaerobic decomposition of switchgrass by tropical soil-derived feedstock-adapted consortia. *MBio* , **2012**, 3,	7.8	16
56	Geographic and Ecological Setting of the Luquillo Mountains **2012**, 72-163		16
55	Greenhouse gas emissions from windrow composting of organic wastes: Patterns and emissions factors. *Environmental Research Letters*, **2019**, 14, 124027	6.2	16
54	Disentangling the long-term effects of disturbance on soil biogeochemistry in a wet tropical forest ecosystem. *Global Change Biology*, **2018**, 24, 1673-1684	11.4	15
53	A Research Framework to Integrate Cross-Ecosystem Responses to Tropical Cyclones. *BioScience*, **2020**, 70, 477-489	5.7	14
52	Impact of hydrologically driven hillslope erosion and landslide occurrence on soil organic carbon dynamics in tropical watersheds. *Water Resources Research*, **2016**, 52, 8895-8919	5.4	14
51	Non-linear response of carbon dioxide and methane emissions to oxygen availability in a drained histosol. *Biogeochemistry*, **2015**, 123, 299-306	3.8	13
50	Productive wetlands restored for carbon sequestration quickly become net CO2 sinks with site-level factors driving uptake variability. *PLoS ONE*, **2021**, 16, e0248398	3.7	13

49	A new approach for removing iron interference from soil nitrate analysis. *Soil Biology and Biochemistry*, **2012**, 46, 123-128	7.5	12
48	Invasive perennial forb effects on gross soil nitrogen cycling and nitrous oxide fluxes depend on phenology. *Ecology*, **2019**, 100, e02716	4.6	10
47	Response to Disturbance **2012**, 201-271		10
46	Where old meets new: An ecosystem study of methanogenesis in a reflooded agricultural peatland. *Global Change Biology*, **2020**, 26, 772-785	11.4	10
45	The role of soil redox conditions in microbial phosphorus cycling in humid tropical forests. *Ecology*, **2020**, 101, e02928	4.6	9
44	The role of soil in the contribution of food and feed. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2021**, 376, 20200181	5.8	9
43	Effects of Filtered Air and Misting Treatments on Cuticles of Red Spruce Needles on Whiteface Mountain, N.Y.. *Journal of Sustainable Forestry*, **1993**, 1, 25-47	1.2	8
42	Disturbance Regime **2012**, 164-200		8
41	Grassland compost amendments increase plant production without changing plant communities. *Ecosphere*, **2016**, 7, e01270	3.1	8
40	Soil Oxygen Limits Microbial Phosphorus Utilization in Humid Tropical Forest Soils. *Soil Systems*, **2018**, 2, 65	3.5	8
39	Anoxic conditions maintained high phosphorus sorption in humid tropical forest soils. *Biogeosciences*, **2020**, 17, 89-101	4.6	7
38	Mineralogical associations with soil carbon in managed wetland soils. *Global Change Biology*, **2020**, 26, 6555-6567	11.4	7
37	Soil organic carbon is not just for soil scientists: measurement recommendations for diverse practitioners. *Ecological Applications*, **2021**, 31, e02290	4.9	7
36	Soil-derived Nature's Contributions to People and their contribution to the UN Sustainable Development Goals. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2021**, 376, 20200185	5.8	7
35	Greenhouse gas emissions from dairy manure management in a Mediterranean environment. *Ecological Applications*, **2017**, 27, 545-559	4.9	6
34	Changes in Red Spruce Populations in Montane Forests of the Appalachians, 1982-1987. *American Midland Naturalist*, **1991**, 125, 340	0.7	6
33	Disturbance and resilience in the Luquillo Experimental Forest. *Biological Conservation*, **2021**, 253, 108894	4.2	6
32	Greenhouse gas fluxes from Atacama Desert soils: a test of biogeochemical potential at the Earth's arid extreme. *Biogeochemistry*, **2012**, 111, 303-315	3.8	5

31	Variations in Belowground Carbon Storage and Soil CO2 Flux Rates along a Wet Tropical Climate Gradient1. *Biotropica*, **2006**, 32, 614-624	2.3	5
30	Biomass and Nutrient Dynamics of Restored Neotropical Forests. *Water, Air and Soil Pollution*, **2004**, 4, 731-746		5
29	DISSIMILATORY NITRATE REDUCTION TO AMMONIUM IN UPLAND TROPICAL FOREST SOILS **2001**, 82, 2410		5
28	Biodiversity and Biogeochemical Cycles. *Ecological Studies*, **1996**, 49-67	1.1	5
27	Ecological Paradigms for the Tropics **2012**, 3-41		5
26	Hot moments drive extreme nitrous oxide and methane emissions from agricultural peatlands. *Global Change Biology*, **2021**, 27, 5141-5153	11.4	5
25	On the Shoulders of Giants: Continuing the Legacy of Large-Scale Ecosystem Manipulation Experiments in Puerto Rico. *Forests*, **2019**, 10, 210	2.8	5
24	Long-Term Research in the Luquillo Mountains **2012**, 361-442		4
23	Differential effects of redox conditions on the decomposition of litter and soil organic matter. *Biogeochemistry*, **2021**, 154, 1-15	3.8	4
22	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	10.5	4
21	Measuring gross N2 O production in soil: a reply to Well and Butterbach-Bahl. *Global Change Biology*, **2013**, 19, 985-7	11.4	3
20	The Potential Effects of Elevated CO2 and Climate Change on Tropical Forest Soils and Biogeochemical Cycling **1998**, 197-221		3
19	Ecological and genomic attributes of novel bacterial taxa that thrive in subsurface soil horizons		3
18	Interactive effects of temperature and redox on soil carbon and iron cycling. *Soil Biology and Biochemistry*, **2021**, 157, 108235	7.5	3
17	Restoring wetlands on intensive agricultural lands modifies nitrogen cycling microbial communities and reduces NO production potential. *Journal of Environmental Management*, **2021**, 299, 113562	7.9	3
16	The response of heterotrophic activity and carbon cycling to nitrogen additions and warming in two tropical soils. *Global Change Biology*, **2012**, 18, 400-400	11.4	2
15	Is there evidence for limitations to nitrogen mineralization in upper montane tropical forests?418-427		2
14	Large fluxes and rapid turnover of mineral-associated carbon across topographic gradients in a humid tropical forest: insights from paired ¹⁴C analysis		2

List of Publications

13	Biogeochemical cycling in tropical forests **2011**, 315-341		2
12	Biomass and Nutrient Dynamics of Restored Neotropical Forests **2004**, 731-746		2
11	Redox fluctuations control the coupled cycling of iron and carbon in tropical forest soils		2
10	The role of soils in delivering Nature's Contributions to People. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2021**, 376, 20200169	5.8	2
9	DISSIMILATORY NITRATE REDUCTION TO AMMONIUM IN UPLAND TROPICAL FOREST SOILS **2001**, 82, 2410		1
8	Representing methane emissions from wet tropical forest soils using microbial functional groups constrained by soil diffusivity. *Biogeosciences*, **2021**, 18, 1769-1786	4.6	1
7	Printed Potentiometric Nitrate Sensors for Use in Soil. *Sensors*, **2022**, 22, 4095	3.8	1
6	Teaching Biogeochemistry and Ecosystem Ecology in the United States: Survey Results. *Bulletin of the Ecological Society of America*, **2013**, 94, 105-106	0.7	
5	Survival, Growth, and Ecosystem Dynamics of Displaced Bromeliads in a Montane Tropical Forest1. *Biotropica*, **2002**, 34, 211	2.3	
4	Nutrient-cycling and climate change in tropical forests **2007**, 295-316		
3	UC experts can lead on carbon dioxide removal. *California Agriculture*, **2019**, 73, 69-72	1.1	
2	Low Redox Decreases Potential Phosphorus Limitation on Soil Biogeochemical Cycling Along a Tropical Rainfall Gradient. *Ecosystems*,1	3.9	
1	An Introduction to Biogeochemistry of the Critical Zone **2022**, 1-7		