

Whendee L Silver

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.

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	An Introduction to Biogeochemistry of the Critical Zone 2022 , 1-7		
173	Printed Potentiometric Nitrate Sensors for Use in Soil. <i>Sensors</i> , 2022 , 22, 4095	3.8	1
172	Productive wetlands restored for carbon sequestration quickly become net CO2 sinks with site-level factors driving uptake variability. <i>PLoS ONE</i> , 2021 , 16, e0248398	3.7	13
171	Representing methane emissions from wet tropical forest soils using microbial functional groups constrained by soil diffusivity. <i>Biogeosciences</i> , 2021 , 18, 1769-1786	4.6	1
170	Differential effects of redox conditions on the decomposition of litter and soil organic matter. <i>Biogeochemistry</i> , 2021 , 154, 1-15	3.8	4
169	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	10.5	4
168	Interactive effects of temperature and redox on soil carbon and iron cycling. <i>Soil Biology and Biochemistry</i> , 2021 , 157, 108235	7.5	3
167	Hot moments drive extreme nitrous oxide and methane emissions from agricultural peatlands. <i>Global Change Biology</i> , 2021 , 27, 5141-5153	11.4	5
166	Disturbance and resilience in the Luquillo Experimental Forest. <i>Biological Conservation</i> , 2021 , 253, 108891	12	6
165	Soil organic carbon is not just for soil scientists: measurement recommendations for diverse practitioners. <i>Ecological Applications</i> , 2021 , 31, e02290	4.9	7
164	Soil-derived Nature's Contributions to People and their contribution to the UN Sustainable Development Goals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200185	5.8	7
163	The role of soils in delivering Nature's Contributions to People. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200169	5.8	2
162	The role of soil in the contribution of food and feed. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200181	5.8	9
161	Restoring wetlands on intensive agricultural lands modifies nitrogen cycling microbial communities and reduces NO production potential. <i>Journal of Environmental Management</i> , 2021 , 299, 113562	7.9	3
160	Anoxic conditions maintained high phosphorus sorption in humid tropical forest soils. <i>Biogeosciences</i> , 2020 , 17, 89-101	4.6	7
159	A Research Framework to Integrate Cross-Ecosystem Responses to Tropical Cyclones. <i>BioScience</i> , 2020 , 70, 477-489	5.7	14
158	Where old meets new: An ecosystem study of methanogenesis in a reflooded agricultural peatland. <i>Global Change Biology</i> , 2020 , 26, 772-785	11.4	10

157	The role of soil redox conditions in microbial phosphorus cycling in humid tropical forests. <i>Ecology</i> , 2020 , 101, e02928	4.6	9
156	COSORE: A community database for continuous soil respiration and other soil-atmosphere greenhouse gas flux data. <i>Global Change Biology</i> , 2020 , 26, 7268-7283	11.4	22
155	Mineralogical associations with soil carbon in managed wetland soils. <i>Global Change Biology</i> , 2020 , 26, 6555-6567	11.4	7
154	Assessing the carbon and climate benefit of restoring degraded agricultural peat soils to managed wetlands. <i>Agricultural and Forest Meteorology</i> , 2019 , 268, 202-214	5.8	49
153	Global patterns in fine root decomposition: climate, chemistry, mycorrhizal association and woodiness. <i>Ecology Letters</i> , 2019 , 22, 946-953	10	56
152	Biodiversity recovery of Neotropical secondary forests. <i>Science Advances</i> , 2019 , 5, eaau3114	14.3	161
151	Invasive perennial forb effects on gross soil nitrogen cycling and nitrous oxide fluxes depend on phenology. <i>Ecology</i> , 2019 , 100, e02716	4.6	10
150	UC experts can lead on carbon dioxide removal. <i>California Agriculture</i> , 2019 , 73, 69-72	1.1	
149	On the Shoulders of Giants: Continuing the Legacy of Large-Scale Ecosystem Manipulation Experiments in Puerto Rico. <i>Forests</i> , 2019 , 10, 210	2.8	5
148	Ecological and Genomic Attributes of Novel Bacterial Taxa That Thrive in Subsurface Soil Horizons. <i>MBio</i> , 2019 , 10,	7.8	53
147	Greenhouse gas emissions from windrow composting of organic wastes: Patterns and emissions factors. <i>Environmental Research Letters</i> , 2019 , 14, 124027	6.2	16
146	Soil properties and sediment accretion modulate methane fluxes from restored wetlands. <i>Global Change Biology</i> , 2018 , 24, 4107-4121	11.4	24
145	Drought drives rapid shifts in tropical rainforest soil biogeochemistry and greenhouse gas emissions. <i>Nature Communications</i> , 2018 , 9, 1348	17.4	75
144	Disentangling the long-term effects of disturbance on soil biogeochemistry in a wet tropical forest ecosystem. <i>Global Change Biology</i> , 2018 , 24, 1673-1684	11.4	15
143	Networking our science to characterize the state, vulnerabilities, and management opportunities of soil organic matter. <i>Global Change Biology</i> , 2018 , 24, e705-e718	11.4	61
142	Phosphorus Fractionation Responds to Dynamic Redox Conditions in a Humid Tropical Forest Soil. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 3016-3027	3.7	16
141	Ideas and perspectives: Strengthening the biogeosciences in environmental research networks. <i>Biogeosciences</i> , 2018 , 15, 4815-4832	4.6	19
140	Soil Oxygen Limits Microbial Phosphorus Utilization in Humid Tropical Forest Soils. <i>Soil Systems</i> , 2018 , 2, 65	3.5	8

139	Redox Fluctuations Control the Coupled Cycling of Iron and Carbon in Tropical Forest Soils. <i>Environmental Science & Technology</i> , 2018 , 52, 14129-14139	10.3	44
138	Hot Spots and Hot Moments of Soil Moisture Explain Fluctuations in Iron and Carbon Cycling in a Humid Tropical Forest Soil. <i>Soil Systems</i> , 2018 , 2, 59	3.5	26
137	The potential of agricultural land management to contribute to lower global surface temperatures. <i>Science Advances</i> , 2018 , 4, eaaq0932	14.3	19
136	Legume abundance along successional and rainfall gradients in Neotropical forests. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1104-1111	12.3	71
135	Cross-biome assessment of gross soil nitrogen cycling in California ecosystems. <i>Soil Biology and Biochemistry</i> , 2017 , 107, 144-155	7.5	38
134	Direct nitrous oxide emissions in Mediterranean climate cropping systems: Emission factors based on a meta-analysis of available measurement data. <i>Agriculture, Ecosystems and Environment</i> , 2017 , 238, 25-35	5.7	129
133	Effects of seasonality, transport pathway, and spatial structure on greenhouse gas fluxes in a restored wetland. <i>Global Change Biology</i> , 2017 , 23, 2768-2782	11.4	38
132	Greenhouse gas emissions from dairy manure management in a Mediterranean environment. <i>Ecological Applications</i> , 2017 , 27, 545-559	4.9	6
131	Evaluating the Classical Versus an Emerging Conceptual Model of Peatland Methane Dynamics. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 1435-1453	5.9	16
130	Impact of hydrologically driven hillslope erosion and landslide occurrence on soil organic carbon dynamics in tropical watersheds. <i>Water Resources Research</i> , 2016 , 52, 8895-8919	5.4	14
129	Belowground Response to Drought in a Tropical Forest Soil. II. Change in Microbial Function Impacts Carbon Composition. <i>Frontiers in Microbiology</i> , 2016 , 7, 323	5.7	37
128	Belowground Response to Drought in a Tropical Forest Soil. I. Changes in Microbial Functional Potential and Metabolism. <i>Frontiers in Microbiology</i> , 2016 , 7, 525	5.7	63
127	Net soil-atmosphere fluxes mask patterns in gross production and consumption of nitrous oxide and methane in a managed ecosystem. <i>Biogeosciences</i> , 2016 , 13, 1705-1715	4.6	20
126	Grassland compost amendments increase plant production without changing plant communities. <i>Ecosphere</i> , 2016 , 7, e01270	3.1	8
125	Gross nitrous oxide production drives net nitrous oxide fluxes across a salt marsh landscape. <i>Global Change Biology</i> , 2016 , 22, 2228-37	11.4	29
124	Iron addition to soil specifically stabilized lignin. <i>Soil Biology and Biochemistry</i> , 2016 , 98, 95-98	7.5	43
123	Drivers and patterns of iron redox cycling from surface to bedrock in a deep tropical forest soil: a new conceptual model. <i>Biogeochemistry</i> , 2016 , 130, 177-190	3.8	38
122	Non-linear response of carbon dioxide and methane emissions to oxygen availability in a drained histosol. <i>Biogeochemistry</i> , 2015 , 123, 299-306	3.8	13

121	Long-term climate change mitigation potential with organic matter management on grasslands 2015 , 25, 531-45		50
120	Lignin decomposition is sustained under fluctuating redox conditions in humid tropical forest soils. <i>Global Change Biology</i> , 2015 , 21, 2818-2828	11.4	46
119	Microbially mediated nitrogen retention and loss in a salt marsh soil. <i>Ecosphere</i> , 2015 , 6, art7	3.1	20
118	Spatial patterns in oxygen and redox sensitive biogeochemistry in tropical forest soils. <i>Ecosphere</i> , 2015 , 6, art211	3.1	23
117	Reducing conditions, reactive metals, and their interactions can explain spatial patterns of surface soil carbon in a humid tropical forest. <i>Biogeochemistry</i> , 2015 , 125, 149-165	3.8	57
116	Long-term impacts of manure amendments on carbon and greenhouse gas dynamics of rangelands. <i>Global Change Biology</i> , 2015 , 21, 4533-47	11.4	27
115	Large fluxes and rapid turnover of mineral-associated carbon across topographic gradients in a humid tropical forest: insights from paired $\delta^{14}\text{C}$ analysis. <i>Biogeosciences</i> , 2015 , 12, 2471-2487	4.6	27
114	Greenhouse gas emissions from dairy manure management: a review of field-based studies. <i>Global Change Biology</i> , 2015 , 21, 550-65	11.4	97
113	Separate effects of flooding and anaerobiosis on soil greenhouse gas emissions and redox sensitive biogeochemistry. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 557-566	3.7	49
112	Impacts of organic matter amendments on carbon and nitrogen dynamics in grassland soils. <i>Soil Biology and Biochemistry</i> , 2014 , 68, 52-61	7.5	114
111	New high precision approach for measuring $15\text{N}\text{N}_2$ gas fluxes from terrestrial ecosystems. <i>Soil Biology and Biochemistry</i> , 2014 , 69, 234-241	7.5	21
110	Differential effects of canopy trimming and litter deposition on litterfall and nutrient dynamics in a wet subtropical forest. <i>Forest Ecology and Management</i> , 2014 , 332, 47-55	3.9	34
109	Breaking the enzymatic latch: impacts of reducing conditions on hydrolytic enzyme activity in tropical forest soils. <i>Ecology</i> , 2014 , 95, 2964-2973	4.6	38
108	Changes in microbial dynamics during long-term decomposition in tropical forests. <i>Soil Biology and Biochemistry</i> , 2013 , 66, 60-68	7.5	42
107	Iron oxidation stimulates organic matter decomposition in humid tropical forest soils. <i>Global Change Biology</i> , 2013 , 19, 2804-13	11.4	151
106	A Lifecycle Model to Evaluate Carbon Sequestration Potential and Greenhouse Gas Dynamics of Managed Grasslands. <i>Ecosystems</i> , 2013 , 16, 962-979	3.9	35
105	When Wet Gets Wetter: Decoupling of Moisture, Redox Biogeochemistry, and Greenhouse Gas Fluxes in a Humid Tropical Forest Soil. <i>Ecosystems</i> , 2013 , 16, 576-589	3.9	91
104	Pre-exposure to drought increases the resistance of tropical forest soil bacterial communities to extended drought. <i>ISME Journal</i> , 2013 , 7, 384-94	11.9	150

103	Measuring gross N ₂ O production in soil: a reply to Well and Butterbach-Bahl. <i>Global Change Biology</i> , 2013 , 19, 985-7	11.4	3
102	Effects of organic matter amendments on net primary productivity and greenhouse gas emissions in annual grasslands 2013 , 23, 46-59		79
101	Teaching Biogeochemistry and Ecosystem Ecology in the United States: Survey Results. <i>Bulletin of the Ecological Society of America</i> , 2013 , 94, 105-106	0.7	
100	Sensitivity of soil respiration to variability in soil moisture and temperature in a humid tropical forest. <i>PLoS ONE</i> , 2013 , 8, e80965	3.7	58
99	Hydrologic control on redox and nitrogen dynamics in a peatland soil. <i>Science of the Total Environment</i> , 2012 , 432, 37-46	10.2	40
98	A new approach for removing iron interference from soil nitrate analysis. <i>Soil Biology and Biochemistry</i> , 2012 , 46, 123-128	7.5	12
97	Greenhouse gas fluxes from Atacama Desert soils: a test of biogeochemical potential at the Earth's arid extreme. <i>Biogeochemistry</i> , 2012 , 111, 303-315	3.8	5
96	The challenges of measuring methane fluxes and concentrations over a peatland pasture. <i>Agricultural and Forest Meteorology</i> , 2012 , 153, 177-187	5.8	104
95	Nitrogen loss from soil through anaerobic ammonium oxidation coupled to iron reduction. <i>Nature Geoscience</i> , 2012 , 5, 538-541	18.3	224
94	Strong spatial variability in trace gas dynamics following experimental drought in a humid tropical forest. <i>Global Biogeochemical Cycles</i> , 2012 , 26,	5.9	56
93	Application of the N ₂ /Ar technique to measuring soil-atmosphere N ₂ fluxes. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 449-59	2.2	16
92	The response of heterotrophic activity and carbon cycling to nitrogen additions and warming in two tropical soils. <i>Global Change Biology</i> , 2012 , 18, 400-400	11.4	2
91	Anaerobic decomposition of switchgrass by tropical soil-derived feedstock-adapted consortia. <i>MBio</i> , 2012 , 3,	7.8	16
90	Ecological Paradigms for the Tropics 2012 , 3-41		5
89	Geographic and Ecological Setting of the Luquillo Mountains 2012 , 72-163		16
88	Disturbance Regime 2012 , 164-200		8
87	Response to Disturbance 2012 , 201-271		10
86	Long-Term Research in the Luquillo Mountains 2012 , 361-442		4

85	Changes in microbial community characteristics and soil organic matter with nitrogen additions in two tropical forests. <i>Ecology</i> , 2011 , 92, 621-32	4.6	294
84	Carbon dioxide exchange of a pepperweed (<i>Lepidium latifolium</i> L.) infestation: How do flowering and mowing affect canopy photosynthesis and autotrophic respiration?. <i>Journal of Geophysical Research</i> , 2011 , 116,		19
83	Atypical soil carbon distribution across a tropical steep-land forest catena. <i>Catena</i> , 2011 , 87, 391-397	5.8	19
82	Characterization of trapped lignin-degrading microbes in tropical forest soil. <i>PLoS ONE</i> , 2011 , 6, e19306	3.7	143
81	Relationships among net primary productivity, nutrients and climate in tropical rain forest: a pan-tropical analysis. <i>Ecology Letters</i> , 2011 , 14, 939-47	10	306
80	A test of a field-based ¹⁵ N-nitrous oxide pool dilution technique to measure gross N ₂ O production in soil. <i>Global Change Biology</i> , 2011 , 17, 3577-3588	11.4	43
79	Effects of nitrogen additions on above- and belowground carbon dynamics in two tropical forests. <i>Biogeochemistry</i> , 2011 , 104, 203-225	3.8	125
78	Temporal Dynamics in Soil Oxygen and Greenhouse Gases in Two Humid Tropical Forests. <i>Ecosystems</i> , 2011 , 14, 171-182	3.9	119
77	Large Greenhouse Gas Emissions from a Temperate Peatland Pasture. <i>Ecosystems</i> , 2011 , 14, 311-325	3.9	83
76	Beyond carbon and nitrogen: how the microbial energy economy couples elemental cycles in diverse ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2011 , 9, 44-52	5.5	120
75	Biogeochemical cycling in tropical forests 2011 , 315-341		2
74	The response of heterotrophic activity and carbon cycling to nitrogen additions and warming in two tropical soils. <i>Global Change Biology</i> , 2010 , 16, 2555	11.4	80
73	Microbial communities acclimate to recurring changes in soil redox potential status. <i>Environmental Microbiology</i> , 2010 , 12, 3137-49	5.2	229
72	Tropical forest soil microbial communities couple iron and carbon biogeochemistry. <i>Ecology</i> , 2010 , 91, 2604-12	4.6	122
71	Soil Carbon Pools in California's Annual Grassland Ecosystems. <i>Rangeland Ecology and Management</i> , 2010 , 63, 128-136	2.2	50
70	Strategies for Enhancing the Effectiveness of Metagenomic-based Enzyme Discovery in Lignocellulolytic Microbial Communities. <i>Bioenergy Research</i> , 2010 , 3, 146-158	3.1	82
69	Effects of carbon additions on iron reduction and phosphorus availability in a humid tropical forest soil. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 1696-1702	7.5	121
68	Biological Nitrogen Fixation in Two Tropical Forests: Ecosystem-Level Patterns and Effects of Nitrogen Fertilization. <i>Ecosystems</i> , 2009 , 12, 1299-1315	3.9	107

67	A decade of belowground reorganization following multiple disturbances in a subtropical wet forest. <i>Plant and Soil</i> , 2009 , 323, 197-212	4.2	21
66	Controls on long-term root and leaf litter decomposition in neotropical forests. <i>Global Change Biology</i> , 2009 , 15, 1339-1355	11.4	150
65	Soil organic matter dynamics during 80 years of reforestation of tropical pastures. <i>Global Change Biology</i> , 2009 , 15, 1584-1597	11.4	160
64	Long-term patterns of mass loss during the decomposition of leaf and fine root litter: an intersite comparison. <i>Global Change Biology</i> , 2009 , 15, 1320-1338	11.4	205
63	Cross-biome transplants of plant litter show decomposition models extend to a broader climatic range but lose predictability at the decadal time scale. <i>Global Change Biology</i> , 2009 , 16, 1744-1761	11.4	88
62	Suppression of methanogenesis by dissimilatory Fe(III)-reducing bacteria in tropical rain forest soils: implications for ecosystem methane flux. <i>Global Change Biology</i> , 2008 , 14, 413-422	11.4	49
61	The sensitivity of annual grassland carbon cycling to the quantity and timing of rainfall. <i>Global Change Biology</i> , 2008 , 14, 1382-1394	11.4	149
60	Simple three-pool model accurately describes patterns of long-term litter decomposition in diverse climates. <i>Global Change Biology</i> , 2008 , 14, 2636-2660	11.4	340
59	Chemical and mineral control of soil carbon turnover in abandoned tropical pastures. <i>Geoderma</i> , 2008 , 143, 49-62	6.7	93
58	Retention of phosphorus in highly weathered soils under a lowland Amazonian forest ecosystem. <i>Journal of Geophysical Research</i> , 2008 , 113,		26
57	PLANT AND MICROBIAL CONTROLS ON NITROGEN RETENTION AND LOSS IN A HUMID TROPICAL FOREST. <i>Ecology</i> , 2008 , 89, 3030-3040	4.6	115
56	Litterfall and Decomposition in Relation to Soil Carbon Pools Along a Secondary Forest Chronosequence in Puerto Rico. <i>Ecosystems</i> , 2008 , 11, 701-714	3.9	100
55	Trends in Above and Belowground Carbon with Forest Regrowth After Agricultural Abandonment in the Neotropics 2008 , 22-72		27
54	Long-term patterns in tropical reforestation: plant community composition and aboveground biomass accumulation 2007 , 17, 828-39		105
53	Global-scale similarities in nitrogen release patterns during long-term decomposition. <i>Science</i> , 2007 , 315, 361-4	33.3	851
52	Nutrient-cycling and climate change in tropical forests 2007 , 295-316		
51	Effects of soil structure destruction on methane production and carbon partitioning between methanogenic pathways in tropical rain forest soils. <i>Journal of Geophysical Research</i> , 2006 , 111,		18
50	Carbon isotope fractionation by methane-oxidizing bacteria in tropical rain forest soils. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		18

49	Variations in Belowground Carbon Storage and Soil CO ₂ Flux Rates along a Wet Tropical Climate Gradient1. <i>Biotropica</i> , 2006 , 32, 614-624	2.3	5
48	Dynamics of fine root carbon in Amazonian tropical ecosystems and the contribution of roots to soil respiration. <i>Global Change Biology</i> , 2006 , 12, 217-229	11.4	111
47	Iron Reduction and Soil Phosphorus Solubilization in Humid Tropical Forests Soils: The Roles of Labile Carbon Pools and an Electron Shuttle Compound. <i>Biogeochemistry</i> , 2006 , 78, 67-84	3.8	172
46	Redox Fluctuations Frame Microbial Community Impacts on N-cycling Rates in a Humid Tropical Forest Soil. <i>Biogeochemistry</i> , 2006 , 81, 95-110	3.8	129
45	Fine root dynamics and trace gas fluxes in two lowland tropical forest soils. <i>Global Change Biology</i> , 2005 , 11, 290-306	11.4	143
44	Oxygen effects on methane production and oxidation in humid tropical forest soils. <i>Global Change Biology</i> , 2005 , 11, 1283-1297	11.4	113
43	Factors Affecting Mortality and Resistance to Damage Following Hurricanes in a Rehabilitated Subtropical Moist Forest1. <i>Biotropica</i> , 2005 , 37, 16-24	2.3	82
42	NITROGEN CYCLING IN TROPICAL PLANTATION FORESTS: POTENTIAL CONTROLS ON NITROGEN RETENTION 2005 , 15, 1604-1614		112
41	Biomass and Nutrient Dynamics of Restored Neotropical Forests. <i>Water, Air and Soil Pollution</i> , 2004 , 4, 731-746		5
40	The Effect of Phosphorus Availability on Decomposition Dynamics in a Seasonal Lowland Amazonian Forest. <i>Ecosystems</i> , 2004 , 7, 172-179	3.9	60
39	Some aspects of ecophysiological and biogeochemical responses of tropical forests to atmospheric change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004 , 359, 463-76	5.8	72
38	CARBON SEQUESTRATION AND PLANT COMMUNITY DYNAMICS FOLLOWING REFORESTATION OF TROPICAL PASTURE 2004 , 14, 1115-1127		100
37	Biomass and Nutrient Dynamics of Restored Neotropical Forests 2004 , 731-746		2
36	Experimentally induced root mortality increased nitrous oxide emission from tropical forest soils. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	35
35	Forest Floor Decomposition Following Hurricane Litter Inputs in Several Puerto Rican Forests. <i>Ecosystems</i> , 2003 , 6, 261-273	3.9	73
34	Survival, Growth, and Ecosystem Dynamics of Displaced Bromeliads in a Montane Tropical Forest1. <i>Biotropica</i> , 2002 , 34, 211-224	2.3	19
33	Survival, Growth, and Ecosystem Dynamics of Displaced Bromeliads in a Montane Tropical Forest1. <i>Biotropica</i> , 2002 , 34, 211	2.3	
32	Global patterns in root decomposition: comparisons of climate and litter quality effects. <i>Oecologia</i> , 2001 , 129, 407-419	2.9	617

31	DISSIMILATORY NITRATE REDUCTION TO AMMONIUM IN UPLAND TROPICAL FOREST SOILS. <i>Ecology</i> , 2001 , 82, 2410-2416	4.6	261
30	DISSIMILATORY NITRATE REDUCTION TO AMMONIUM IN UPLAND TROPICAL FOREST SOILS 2001 , 82, 2410		1
29	DISSIMILATORY NITRATE REDUCTION TO AMMONIUM IN UPLAND TROPICAL FOREST SOILS 2001 , 82, 2410		5
28	The Potential for Carbon Sequestration Through Reforestation of Abandoned Tropical Agricultural and Pasture Lands. <i>Restoration Ecology</i> , 2000 , 8, 394-407	3.1	382
27	Effects of Soil Texture on Belowground Carbon and Nutrient Storage in a Lowland Amazonian Forest Ecosystem. <i>Ecosystems</i> , 2000 , 3, 193-209	3.9	257
26	Effects of Global Changes on Above- and Belowground Biodiversity in Terrestrial Ecosystems: Implications for Ecosystem Functioning. <i>BioScience</i> , 2000 , 50, 1089	5.7	130
25	Variations in Belowground Carbon Storage and Soil CO ₂ Flux Rates along a Wet Tropical Climate Gradient1. <i>Biotropica</i> , 2000 , 32, 614	2.3	54
24	Soil-atmosphere nitrogen oxide fluxes: Effects of root disturbance. <i>Journal of Geophysical Research</i> , 2000 , 105, 17693-17698		24
23	Interactions between Aboveground and Belowground Biodiversity in Terrestrial Ecosystems: Patterns, Mechanisms, and Feedbacks. <i>BioScience</i> , 2000 , 50, 1049	5.7	486
22	Soil oxygen availability and biogeochemistry along rainfall and topographic gradients in upland wet tropical forest soils. <i>Biogeochemistry</i> , 1999 , 44, 301-328	3.8	282
21	Soil oxygen availability and biogeochemistry along rainfall and topographic gradients in upland wet tropical forest soils. <i>Biogeochemistry</i> , 1999 , 44, 301-328	3.8	68
20	EFFECTS OF CHRONIC NITROGEN ADDITIONS ON UNDERSTORY SPECIES IN A RED PINE PLANTATION 1999 , 9, 949-957		33
19	The Potential Effects of Elevated CO ₂ and Climate Change on Tropical Forest Soils and Biogeochemical Cycling. <i>Climatic Change</i> , 1998 , 39, 337-361	4.5	39
18	Impacts of disturbance initiated by road construction in a subtropical cloud forest in the Luquillo Experimental Forest, Puerto Rico. <i>Forest Ecology and Management</i> , 1998 , 109, 33-49	3.9	59
17	The Potential Effects of Elevated CO ₂ and Climate Change on Tropical Forest Soils and Biogeochemical Cycling 1998 , 197-221		3
16	At What Temporal Scales Does Disturbance Affect Belowground Nutrient Pools?. <i>Biotropica</i> , 1996 , 28, 441	2.3	78
15	Introduction: Disturbance and Caribbean Ecosystems. <i>Biotropica</i> , 1996 , 28, 414	2.3	83
14	Effects of Changes in Biodiversity on Ecosystem Function in Tropical Forests. <i>Conservation Biology</i> , 1996 , 10, 17-24	6	50

13	Biodiversity and Biogeochemical Cycles. <i>Ecological Studies</i> , 1996 , 49-67	1.1	5
12	Is nutrient availability related to plant nutrient use in humid tropical forests?. <i>Oecologia</i> , 1994 , 98, 336-343	3.3	103
11	Nutrient availability in a montane wet tropical forest: Spatial patterns and methodological considerations. <i>Plant and Soil</i> , 1994 , 164, 129-145	4.2	126
10	Biomass and Nutrient Content of the Bisley Experimental Watersheds, Luquillo Experimental Forest, Puerto Rico, Before and After Hurricane Hugo, 1989. <i>Biotropica</i> , 1993 , 25, 15	2.3	113
9	Fine Root Dynamics Following Single and Multiple Disturbances in a Subtropical Wet Forest Ecosystem. <i>Journal of Ecology</i> , 1993 , 81, 729	6	122
8	Belowground responses as indicators of environmental change. <i>Environmental and Experimental Botany</i> , 1993 , 33, 189-205	5.9	76
7	Effects of Filtered Air and Misting Treatments on Cuticles of Red Spruce Needles on Whiteface Mountain, N.Y.. <i>Journal of Sustainable Forestry</i> , 1993 , 1, 25-47	1.2	8
6	Changes in Red Spruce Populations in Montane Forests of the Appalachians, 1982-1987. <i>American Midland Naturalist</i> , 1991 , 125, 340	0.7	6
5	Is there evidence for limitations to nitrogen mineralization in upper montane tropical forests?418-427		2
4	Large fluxes and rapid turnover of mineral-associated carbon across topographic gradients in a humid tropical forest: insights from paired $\delta^{14}\text{C}$ analysis		2
3	Redox fluctuations control the coupled cycling of iron and carbon in tropical forest soils		2
2	Ecological and genomic attributes of novel bacterial taxa that thrive in subsurface soil horizons		3
1	Low Redox Decreases Potential Phosphorus Limitation on Soil Biogeochemical Cycling Along a Tropical Rainfall Gradient. <i>Ecosystems</i> ,1	3.9	