

Cory C Cleveland

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

21,700
citations

22099

59
h-index

31759

101
g-index

121
all docs

121
docs citations

121
times ranked

20661
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen Cycles: Past, Present, and Future. <i>Biogeochemistry</i> , 2004, 70, 153-226.	1.7	4,203
2	C:N:P stoichiometry in soil: is there a "Redfield ratio" for the microbial biomass?. <i>Biogeochemistry</i> , 2007, 85, 235-252.	1.7	1,720
3	Global patterns in belowground communities. <i>Ecology Letters</i> , 2009, 12, 1238-1249.	3.0	957
4	Global patterns of terrestrial biological nitrogen (N ₂) fixation in natural ecosystems. <i>Global Biogeochemical Cycles</i> , 1999, 13, 623-645.	1.9	811
5	Towards an ecological understanding of biological nitrogen fixation. <i>Biogeochemistry</i> , 2002, 57, 1-45.	1.7	719
6	Biological nitrogen fixation: rates, patterns and ecological controls in terrestrial ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130119.	1.8	537
7	Negative impact of nitrogen deposition on soil buffering capacity. <i>Nature Geoscience</i> , 2008, 1, 767-770.	5.4	530
8	Future productivity and carbon storage limited by terrestrial nutrient availability. <i>Nature Geoscience</i> , 2015, 8, 441-444.	5.4	529
9	Functional Ecology of Free-Living Nitrogen Fixation: A Contemporary Perspective. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2011, 42, 489-512.	3.8	479
10	Phosphorus Limitation of Microbial Processes in Moist Tropical Forests: Evidence from Short-term Laboratory Incubations and Field Studies. <i>Ecosystems</i> , 2002, 5, 0680-0691.	1.6	385
11	Nutrient additions to a tropical rain forest drive substantial soil carbon dioxide losses to the atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10316-10321.	3.3	379
12	Relationships among net primary productivity, nutrients and climate in tropical rain forest: a pan-tropical analysis. <i>Ecology Letters</i> , 2011, 14, 939-947.	3.0	379
13	Increases in soil respiration following labile carbon additions linked to rapid shifts in soil microbial community composition. <i>Biogeochemistry</i> , 2007, 82, 229-240.	1.7	378
14	CONTROLS OVER FOLIAR N:P RATIOS IN TROPICAL RAIN FORESTS. <i>Ecology</i> , 2007, 88, 107-118.	1.5	375
15	Human health effects of a changing global nitrogen cycle. <i>Frontiers in Ecology and the Environment</i> , 2003, 1, 240-246.	1.9	370
16	Global patterns in the biogeography of bacterial taxa. <i>Environmental Microbiology</i> , 2011, 13, 135-144.	1.8	362
17	Microbial Community Succession in an Unvegetated, Recently Deglaciaded Soil. <i>Microbial Ecology</i> , 2007, 53, 110-122.	1.4	359
18	Changes in assembly processes in soil bacterial communities following a wildfire disturbance. <i>ISME Journal</i> , 2013, 7, 1102-1111.	4.4	354

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19	Soil fungal pathogens and the relationship between plant diversity and productivity. <i>Ecology Letters</i> , 2011, 14, 36-41.	3.0	345
20	The origin of litter chemical complexity during decomposition. <i>Ecology Letters</i> , 2012, 15, 1180-1188.	3.0	316
21	Large divergence of satellite and Earth system model estimates of global terrestrial CO ₂ fertilization. <i>Nature Climate Change</i> , 2016, 6, 306-310.	8.1	309
22	BIOGEOCHEMICAL CONSEQUENCES OF RAPID MICROBIAL TURNOVER AND SEASONAL SUCCESSION IN SOIL. <i>Ecology</i> , 2007, 88, 1379-1385.	1.5	297
23	Biochar additions alter phosphorus and nitrogen availability in agricultural ecosystems: A meta-analysis. <i>Science of the Total Environment</i> , 2019, 654, 463-472.	3.9	275
24	Patterns of new versus recycled primary production in the terrestrial biosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12733-12737.	3.3	270
25	The biogeochemical heterogeneity of tropical forests. <i>Trends in Ecology and Evolution</i> , 2008, 23, 424-431.	4.2	266
26	NUTRIENT REGULATION OF ORGANIC MATTER DECOMPOSITION IN A TROPICAL RAIN FOREST. <i>Ecology</i> , 2006, 87, 492-503.	1.5	225
27	Plot-scale manipulations of organic matter inputs to soils correlate with shifts in microbial community composition in a lowland tropical rain forest. <i>Soil Biology and Biochemistry</i> , 2010, 42, 2153-2160.	4.2	223
28	The earliest stages of ecosystem succession in high-elevation (5000 metres above sea level), recently deglaciated soils. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2793-2802.	1.2	222
29	Linking environmental nutrient enrichment and disease emergence in humans and wildlife. <i>Ecological Applications</i> , 2010, 20, 16-29.	1.8	213
30	Composition, Dynamics, and Fate of Leached Dissolved Organic Matter in Terrestrial Ecosystems: Results from a Decomposition Experiment. <i>Ecosystems</i> , 2004, 7, 175.	1.6	211
31	Multi-element regulation of the tropical forest carbon cycle. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 9-17.	1.9	204
32	Stoichiometric patterns in foliar nutrient resorption across multiple scales. <i>New Phytologist</i> , 2012, 196, 173-180.	3.5	190
33	Bacterial community structure and function change in association with colonizer plants during early primary succession in a glacier forefield. <i>Soil Biology and Biochemistry</i> , 2012, 46, 172-180.	4.2	185
34	Controls over leaf litter decomposition in wet tropical forests. <i>Ecology</i> , 2009, 90, 3333-3341.	1.5	176
35	Litter quality versus soil microbial community controls over decomposition: a quantitative analysis. <i>Oecologia</i> , 2014, 174, 283-294.	0.9	169
36	Experimental drought in a tropical rain forest increases soil carbon dioxide losses to the atmosphere. <i>Ecology</i> , 2010, 91, 2313-2323.	1.5	155

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37	Experimental litterfall manipulation drives large and rapid changes in soil carbon cycling in a wet tropical forest. <i>Global Change Biology</i> , 2012, 18, 2969-2979.	4.2	152
38	Do we need to understand microbial communities to predict ecosystem function? A comparison of statistical models of nitrogen cycling processes. <i>Soil Biology and Biochemistry</i> , 2014, 68, 279-282.	4.2	143
39	Spatially robust estimates of biological nitrogen (N) fixation imply substantial human alteration of the tropical N cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8101-8106.	3.3	138
40	Interactions among nitrogen fixation and soil phosphorus acquisition strategies in lowland tropical rain forests. <i>Ecology Letters</i> , 2014, 17, 1282-1289.	3.0	138
41	Controls Over Leaf Litter and Soil Nitrogen Fixation in Two Lowland Tropical Rain Forests. <i>Biotropica</i> , 2007, 39, 585-592.	0.8	124
42	Microbial community shifts influence patterns in tropical forest nitrogen fixation. <i>Oecologia</i> , 2010, 164, 521-531.	0.9	120
43	Effects of model structural uncertainty on carbon cycle projections: biological nitrogen fixation as a case study. <i>Environmental Research Letters</i> , 2015, 10, 044016.	2.2	109
44	TREE SPECIES CONTROL RATES OF FREE-LIVING NITROGEN FIXATION IN A TROPICAL RAIN FOREST. <i>Ecology</i> , 2008, 89, 2924-2934.	1.5	107
45	Temperature and rainfall interact to control carbon cycling in tropical forests. <i>Ecology Letters</i> , 2017, 20, 779-788.	3.0	107
46	Nutrient Addition Dramatically Accelerates Microbial Community Succession. <i>PLoS ONE</i> , 2014, 9, e102609.	1.1	106
47	Microbial Consumption of Atmospheric Isoprene in a Temperate Forest Soil. <i>Applied and Environmental Microbiology</i> , 1998, 64, 172-177.	1.4	92
48	Organic matter inputs shift soil enzyme activity and allocation patterns in a wet tropical forest. <i>Biogeochemistry</i> , 2013, 114, 313-326.	1.7	91
49	Consumption of atmospheric isoprene in soil. <i>Geophysical Research Letters</i> , 1997, 24, 2379-2382.	1.5	89
50	Assessing nutrient limitation in complex forested ecosystems: alternatives to large-scale fertilization experiments. <i>Ecology</i> , 2014, 95, 668-681.	1.5	87
51	Topographic controls on soil nitrogen availability in a lowland tropical forest. <i>Ecology</i> , 2015, 96, 1561-1574.	1.5	87
52	Phosphorus, not nitrogen, limits plants and microbial primary producers following glacial retreat. <i>Science Advances</i> , 2018, 4, eaaq0942.	4.7	86
53	Relationships among phosphorus, molybdenum and free-living nitrogen fixation in tropical rain forests: results from observational and experimental analyses. <i>Biogeochemistry</i> , 2013, 114, 135-147.	1.7	80
54	Physical and biogeochemical controls over terrestrial ecosystem responses to nitrogen deposition. <i>Biogeochemistry</i> , 2001, 54, 1-39.	1.7	76

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55	Functional shifts in unvegetated, perhumid, recently-deglaciated soils do not correlate with shifts in soil bacterial community composition. <i>Journal of Microbiology</i> , 2009, 47, 673-681.	1.3	70
56	Litter effects of two co-occurring alpine species on plant growth, microbial activity and immobilization of nitrogen. <i>Oikos</i> , 2004, 104, 336-344.	1.2	69
57	Exotic invasive plants increase productivity, abundance of ammonia-oxidizing bacteria and nitrogen availability in intermountain grasslands. <i>Journal of Ecology</i> , 2016, 104, 994-1002.	1.9	66
58	Nutrient acquisition, soil phosphorus partitioning and competition among trees in a lowland tropical rain forest. <i>New Phytologist</i> , 2017, 214, 1506-1517.	3.5	65
59	SOIL MICROBIAL DYNAMICS AND BIOGEOCHEMISTRY IN TROPICAL FORESTS AND PASTURES, SOUTHWESTERN COSTA RICA. , 2003, 13, 314-326.		64
60	Throughfall exclusion and leaf litter addition drive higher rates of soil nitrous oxide emissions from a lowland wet tropical forest. <i>Global Change Biology</i> , 2011, 17, 3195-3207.	4.2	61
61	Soil abiotic and biotic controls on plant performance during primary succession in a glacial landscape. <i>Journal of Ecology</i> , 2016, 104, 1555-1565.	1.9	61
62	Are patterns in nutrient limitation belowground consistent with those aboveground: results from a 4 million year chronosequence. <i>Biogeochemistry</i> , 2011, 106, 323-336.	1.7	59
63	The Effects of Soil Bacterial Community Structure on Decomposition in a Tropical Rain Forest. <i>Ecosystems</i> , 2012, 15, 284-298.	1.6	59
64	Soil Microbial Dynamics in Costa Rica: Seasonal and Biogeochemical Constraints. <i>Biotropica</i> , 2004, 36, 184-195.	0.8	58
65	Management intensity alters decomposition via biological pathways. <i>Biogeochemistry</i> , 2011, 104, 365-379.	1.7	58
66	Nutrient limitation of soil microbial activity during the earliest stages of ecosystem development. <i>Oecologia</i> , 2017, 185, 513-524.	0.9	58
67	A comparison of plot-based satellite and Earth system model estimates of tropical forest net primary production. <i>Global Biogeochemical Cycles</i> , 2015, 29, 626-644.	1.9	55
68	Nitrogen Deposition In and Around an Intensive Agricultural District in Central New York. <i>Journal of Environmental Quality</i> , 1999, 28, 1585-1600.	1.0	54
69	Tropical tree species composition affects the oxidation of dissolved organic matter from litter. <i>Biogeochemistry</i> , 2008, 88, 127-138.	1.7	54
70	Phosphorus Cycling in Tropical Forests Growing on Highly Weathered Soils. <i>Soil Biology</i> , 2011, , 339-369.	0.6	47
71	Unexpected changes in soil phosphorus dynamics along pasture chronosequences in the humid tropics. <i>Journal of Geophysical Research</i> , 2002, 107, LBA 34-1.	3.3	46
72	Using indirect methods to constrain symbiotic nitrogen fixation rates: a case study from an Amazonian rain forest. <i>Biogeochemistry</i> , 2010, 99, 1-13.	1.7	44

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73	Biogeochemical drivers of microbial community convergence across actively retreating glaciers. <i>Soil Biology and Biochemistry</i> , 2016, 101, 74-84.	4.2	42
74	Organic forms dominate hydrologic nitrogen export from a lowland tropical watershed. <i>Ecology</i> , 2015, 96, 1229-1241.	1.5	40
75	Effects of canopy tree species on belowground biogeochemistry in a lowland wet tropical forest. <i>Soil Biology and Biochemistry</i> , 2013, 58, 61-69.	4.2	38
76	Experimental removal and addition of leaf litter inputs reduces nitrate production and loss in a lowland tropical forest. <i>Biogeochemistry</i> , 2013, 113, 629-642.	1.7	36
77	Climate, Topography, and Canopy Chemistry Exert Hierarchical Control Over Soil N Cycling in a Neotropical Lowland Forest. <i>Ecosystems</i> , 2017, 20, 1089-1103.	1.6	33
78	Invasive plant-derived dissolved organic matter alters microbial communities and carbon cycling in soils. <i>Soil Biology and Biochemistry</i> , 2021, 156, 108191.	4.2	31
79	Agricultural conversion without external water and nutrient inputs reduces terrestrial vegetation productivity. <i>Geophysical Research Letters</i> , 2014, 41, 449-455.	1.5	29
80	Nutrient acquisition strategies augment growth in tropical N-fixing trees in nutrient-poor soil and under elevated CO ₂ . <i>Ecology</i> , 2019, 100, e02646.	1.5	27
81	Estimating phosphorus availability for microbial growth in an emerging landscape. <i>Geoderma</i> , 2011, 163, 135-140.	2.3	26
82	Bioenergy Potential of the United States Constrained by Satellite Observations of Existing Productivity. <i>Environmental Science & Technology</i> , 2012, 46, 3536-3544.	4.6	24
83	Remotely sensed canopy nitrogen correlates with nitrous oxide emissions in a lowland tropical rainforest. <i>Ecology</i> , 2018, 99, 2080-2089.	1.5	23
84	The effects of temperature on soil phosphorus availability and phosphatase enzyme activities: a cross-ecosystem study from the tropics to the Arctic. <i>Biogeochemistry</i> , 2020, 151, 113-125.	1.7	21
85	A simple method for determining limiting nutrients for photosynthetic crusts. <i>Plant Ecology and Diversity</i> , 2012, 5, 513-519.	1.0	20
86	Environmental controls on canopy foliar nitrogen distributions in a Neotropical lowland forest. <i>Ecological Applications</i> , 2016, 26, 2451-2464.	1.8	20
87	A roadmap for sampling and scaling biological nitrogen fixation in terrestrial ecosystems. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1122-1137.	2.2	20
88	Biogeochemical recuperation of lowland tropical forest during succession. <i>Ecology</i> , 2019, 100, e02641.	1.5	19
89	Leaf litter inputs reinforce islands of nitrogen fertility in a lowland tropical forest. <i>Biogeochemistry</i> , 2020, 147, 293-306.	1.7	19
90	Modest Gaseous Nitrogen Losses Point to Conservative Nitrogen Cycling in a Lowland Tropical Forest Watershed. <i>Ecosystems</i> , 2018, 21, 901-912.	1.6	18

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91	Forest restoration treatments have subtle long-term effects on soil C and N cycling in mixed conifer forests. <i>Ecological Applications</i> , 2016, 26, 1503-1516.	1.8	17
92	Engaging Communities and Climate Change Futures with Multi-Scale, Iterative Scenario Building (MISB) in the Western United States. <i>Human Organization</i> , 2016, 75, 33-46.	0.2	17
93	Leaf-cutter ants engineer large nitrous oxide hot spots in tropical forests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182504.	1.2	15
94	Palm oil wastewater methane emissions and bioenergy potential. <i>Nature Climate Change</i> , 2014, 4, 151-152.	8.1	13
95	Nitrogen fixation and foliar nitrogen do not predict phosphorus acquisition strategies in tropical trees. <i>Journal of Ecology</i> , 2019, 107, 118-126.	1.9	13
96	Litter inputs drive patterns of soil nitrogen heterogeneity in a diverse tropical forest: Results from a litter manipulation experiment. <i>Soil Biology and Biochemistry</i> , 2021, 158, 108247.	4.2	13
97	Nitrogen Cycling Responses to Mountain Pine Beetle Disturbance in a High Elevation Whitebark Pine Ecosystem. <i>PLoS ONE</i> , 2013, 8, e65004.	1.1	12
98	Topographic distributions of emergent trees in tropical forests of the Osa Peninsula, Costa Rica. <i>Ecography</i> , 2017, 40, 829-839.	2.1	10
99	Greater stem growth, woody allocation, and aboveground biomass in Paleotropical forests than in Neotropical forests. <i>Ecology</i> , 2019, 100, e02589.	1.5	7
100	Reply to 'Land unlikely to become large carbon source'. <i>Nature Geoscience</i> , 2015, 8, 893-894.	5.4	4
101	Drought and tropical soil emissions. <i>Nature</i> , 2012, 489, 211-212.	13.7	2
102	How Much is too Much? Nitrogen Critical Loads and Eutrophication and Acidification in Oligotrophic Ecosystems. , 2014, , 305-310.		1