Cory C Cleveland

List of Publications by Year
in descending order

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102 papers	21,700 citations	22153 59 h-index	31849 101 g-index
121 all docs	121 docs citations	121 times ranked	20661 citing authors

#	Article	IF	Citations
1	A roadmap for sampling and scaling biological nitrogen fixation in terrestrial ecosystems. Methods in Ecology and Evolution, 2021, 12, 1122-1137.	5.2	20
2	Invasive plant-derived dissolved organic matter alters microbial communities and carbon cycling in soils. Soil Biology and Biochemistry, 2021, 156, 108191.	8.8	31
3	Litter inputs drive patterns of soil nitrogen heterogeneity in a diverse tropical forest: Results from a litter manipulation experiment. Soil Biology and Biochemistry, 2021, 158, 108247.	8.8	13
4	The effects of temperature on soil phosphorus availability and phosphatase enzyme activities: a cross-ecosystem study from the tropics to the Arctic. Biogeochemistry, 2020, 151, 113-125.	3.5	21
5	Leaf litter inputs reinforce islands of nitrogen fertility in a lowland tropical forest. Biogeochemistry, 2020, 147, 293-306.	3.5	19
6	Nitrogen fixation and foliar nitrogen do not predict phosphorus acquisition strategies in tropical trees. Journal of Ecology, 2019, 107, 118-126.	4.0	13
7	Biogeochemical recuperation of lowland tropical forest during succession. Ecology, 2019, 100, e02641.	3.2	19
8	Nutrient acquisition strategies augment growth in tropical N₂â€fixing trees in nutrientâ€poor soil and under elevated <scp>CO</scp>₂. Ecology, 2019, 100, e02646.	3.2	27
9	Leaf-cutter ants engineer large nitrous oxide hot spots in tropical forests. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182504.	2.6	15
10	Greater stem growth, woody allocation, and aboveground biomass in Paleotropical forests than in Neotropical forests. Ecology, 2019, 100, e02589.	3.2	7
11	Biochar additions alter phosphorus and nitrogen availability in agricultural ecosystems: A meta-analysis. Science of the Total Environment, 2019, 654, 463-472.	8.0	275
12	Modest Gaseous Nitrogen Losses Point to Conservative Nitrogen Cycling in a Lowland Tropical Forest Watershed. Ecosystems, 2018, 21, 901-912.	3.4	18
13	Phosphorus, not nitrogen, limits plants and microbial primary producers following glacial retreat. Science Advances, 2018, 4, eaaq0942.	10.3	86
14	Remotely sensed canopy nitrogen correlates with nitrous oxide emissions in a lowland tropical rainforest. Ecology, 2018, 99, 2080-2089.	3.2	23
15	Topographic distributions of emergent trees in tropical forests of the Osa Peninsula, Costa Rica. Ecography, 2017, 40, 829-839.	4.5	10
16	Climate, Topography, and Canopy Chemistry Exert Hierarchical Control Over Soil N Cycling in a Neotropical Lowland Forest. Ecosystems, 2017, 20, 1089-1103.	3.4	33
17	Nutrient acquisition, soil phosphorus partitioning and competition among trees in a lowland tropical rain forest. New Phytologist, 2017, 214, 1506-1517.	7.3	65
18	Temperature and rainfall interact to control carbon cycling in tropical forests. Ecology Letters, 2017, 20, 779-788.	6.4	107

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19	Nutrient limitation of soil microbial activity during the earliest stages of ecosystem development. Oecologia, 2017, 185, 513-524.	2.0	58
20	Soil abiotic and biotic controls on plant performance during primary succession in a glacial landscape. Journal of Ecology, 2016, 104, 1555-1565.	4.0	61
21	Exotic invasive plants increase productivity, abundance of ammoniaâ€oxidizing bacteria and nitrogen availability in intermountain grasslands. Journal of Ecology, 2016, 104, 994-1002.	4.0	66
22	Biogeochemical drivers of microbial community convergence across actively retreating glaciers. Soil Biology and Biochemistry, 2016, 101, 74-84.	8.8	42
23	Environmental controls on canopy foliar nitrogen distributions in a Neotropical lowland forest. Ecological Applications, 2016, 26, 2451-2464.	3.8	20
24	Forest restoration treatments have subtle longâ€term effects on soil CÂand N cycling in mixed conifer forests. Ecological Applications, 2016, 26, 1503-1516.	3.8	17
25	Large divergence of satellite and Earth system model estimates of global terrestrial CO2Âfertilization. Nature Climate Change, 2016, 6, 306-310.	18.8	309
26	Engaging Communities and Climate Change Futures with Multi-Scale, Iterative Scenario Building (MISB) in the Western United States. Human Organization, 2016, 75, 33-46.	0.3	17
27	Effects of model structural uncertainty on carbon cycle projections: biological nitrogen fixation as a case study. Environmental Research Letters, 2015, 10, 044016.	5.2	109
28	Reply to 'Land unlikely to become large carbon source'. Nature Geoscience, 2015, 8, 893-894.	12.9	4
29	A comparison of plotâ€based satellite and Earth system model estimates of tropical forest net primary production. Global Biogeochemical Cycles, 2015, 29, 626-644.	4.9	55
30	Future productivity and carbon storage limited by terrestrial nutrient availability. Nature Geoscience, 2015, 8, 441-444.	12.9	529
31	Organic forms dominate hydrologic nitrogen export from a lowland tropical watershed. Ecology, 2015, 96, 1229-1241.	3.2	40
32	Topographic controls on soil nitrogen availability in a lowland tropical forest. Ecology, 2015, 96, 1561-1574.	3.2	87
33	Nutrient Addition Dramatically Accelerates Microbial Community Succession. PLoS ONE, 2014, 9, e102609.	2.5	106
34	Palm oil wastewater methane emissions and bioenergy potential. Nature Climate Change, 2014, 4, 151-152.	18.8	13
35	Do we need to understand microbial communities to predict ecosystem function? A comparison of statistical models of nitrogen cycling processes. Soil Biology and Biochemistry, 2014, 68, 279-282.	8.8	143
36	Litter quality versus soil microbial community controls over decomposition: a quantitative analysis. Oecologia, 2014, 174, 283-294.	2.0	169

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37	Assessing nutrient limitation in complex forested ecosystems: alternatives to largeâ€scale fertilization experiments. Ecology, 2014, 95, 668-681.	3.2	87
38	Spatially robust estimates of biological nitrogen (N) fixation imply substantial human alteration of the tropical N cycle. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8101-8106.	7.1	138
39	Interactions among nitrogen fixation and soil phosphorus acquisition strategies in lowland tropical rain forests. Ecology Letters, 2014, 17, 1282-1289.	6.4	138
40	Agricultural conversion without external water and nutrient inputs reduces terrestrial vegetation productivity. Geophysical Research Letters, 2014, 41, 449-455.	4.0	29
41	How Much is too Much? Nitrogen Critical Loads and Eutrophication and Acidification in Oligotrophic Ecosystems. , 2014, , 305-310.		1
42	Relationships among phosphorus, molybdenum and free-living nitrogen fixation in tropical rain forests: results from observational and experimental analyses. Biogeochemistry, 2013, 114, 135-147.	3.5	80
43	Organic matter inputs shift soil enzyme activity and allocation patterns in a wet tropical forest. Biogeochemistry, 2013, 114, 313-326.	3.5	91
44	Biological nitrogen fixation: rates, patterns and ecological controls in terrestrial ecosystems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130119.	4.0	537
45	Effects of canopy tree species on belowground biogeochemistry in a lowland wet tropical forest. Soil Biology and Biochemistry, 2013, 58, 61-69.	8.8	38
46	Experimental removal and addition of leaf litter inputs reduces nitrate production and loss in a lowland tropical forest. Biogeochemistry, 2013, 113, 629-642.	3.5	36
47	Changes in assembly processes in soil bacterial communities following a wildfire disturbance. ISME Journal, 2013, 7, 1102-1111.	9.8	354
48	Patterns of new versus recycled primary production in the terrestrial biosphere. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12733-12737.	7.1	270
49	Nitrogen Cycling Responses to Mountain Pine Beetle Disturbance in a High Elevation Whitebark Pine Ecosystem. PLoS ONE, 2013, 8, e65004.	2.5	12
50	Bioenergy Potential of the United States Constrained by Satellite Observations of Existing Productivity. Environmental Science & Technology, 2012, 46, 3536-3544.	10.0	24
51	The origin of litter chemical complexity during decomposition. Ecology Letters, 2012, 15, 1180-1188.	6.4	316
52	Stoichiometric patterns in foliar nutrient resorption across multiple scales. New Phytologist, 2012, 196, 173-180.	7.3	190
53	A simple method for determining limiting nutrients for photosynthetic crusts. Plant Ecology and Diversity, 2012, 5, 513-519.	2.4	20
54	Drought and tropical soil emissions. Nature, 2012, 489, 211-212.	27.8	2

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55	The Effects of Soil Bacterial Community Structure on Decomposition in a Tropical Rain Forest. Ecosystems, 2012, 15, 284-298.	3.4	59
56	Experimental litterfall manipulation drives large and rapid changes in soil carbon cycling in a wet tropical forest. Global Change Biology, 2012, 18, 2969-2979.	9.5	152
57	Bacterial community structure and function change in association with colonizer plants during early primary succession in a glacier forefield. Soil Biology and Biochemistry, 2012, 46, 172-180.	8.8	185
58	Estimating phosphorus availability for microbial growth in an emerging landscape. Geoderma, 2011, 163, 135-140.	5.1	26
59	Functional Ecology of Free-Living Nitrogen Fixation: A Contemporary Perspective. Annual Review of Ecology, Evolution, and Systematics, 2011, 42, 489-512.	8.3	479
60	Soil fungal pathogens and the relationship between plant diversity and productivity. Ecology Letters, 2011, 14, 36-41.	6.4	345
61	Relationships among net primary productivity, nutrients and climate in tropical rain forest: a panâ€tropical analysis. Ecology Letters, 2011, 14, 939-947.	6.4	379
62	Global patterns in the biogeography of bacterial taxa. Environmental Microbiology, 2011, 13, 135-144.	3.8	362
63	Throughfall exclusion and leaf litter addition drive higher rates of soil nitrous oxide emissions from a lowland wet tropical forest. Global Change Biology, 2011, 17, 3195-3207.	9.5	61
64	Management intensity alters decomposition via biological pathways. Biogeochemistry, 2011, 104, 365-379.	3.5	58
65	Are patterns in nutrient limitation belowground consistent with those aboveground: results from a 4 million year chronosequence. Biogeochemistry, 2011, 106, 323-336.	3.5	59
66	Multiâ€element regulation of the tropical forest carbon cycle. Frontiers in Ecology and the Environment, 2011, 9, 9-17.	4.0	204
67	Phosphorus Cycling in Tropical Forests Growing on Highly Weathered Soils. Soil Biology, 2011, , 339-369.	0.8	47
68	Microbial community shifts influence patterns in tropical forest nitrogen fixation. Oecologia, 2010, 164, 521-531.	2.0	120
69	Using indirect methods to constrain symbiotic nitrogen fixation rates: a case study from an Amazonian rain forest. Biogeochemistry, 2010, 99, 1-13.	3.5	44
70	Plot-scale manipulations of organic matter inputs to soils correlate with shifts in microbial community composition in a lowland tropical rain forest. Soil Biology and Biochemistry, 2010, 42, 2153-2160.	8.8	223
71	Linking environmental nutrient enrichment and disease emergence in humans and wildlife. Ecological Applications, 2010, 20, 16-29.	3.8	213
72	Experimental drought in a tropical rain forest increases soil carbon dioxide losses to the atmosphere. Ecology, 2010, 91, 2313-2323.	3.2	155

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73	Functional shifts in unvegetated, perhumid, recently-deglaciated soils do not correlate with shifts in soil bacterial community composition. Journal of Microbiology, 2009, 47, 673-681.	2.8	70
74	Global patterns in belowground communities. Ecology Letters, 2009, 12, 1238-1249.	6.4	957
75	Controls over leaf litter decomposition in wet tropical forests. Ecology, 2009, 90, 3333-3341.	3.2	176
76	Tropical tree species composition affects the oxidation of dissolved organic matter from litter. Biogeochemistry, 2008, 88, 127-138.	3.5	54
77	Negative impact of nitrogen deposition on soil buffering capacity. Nature Geoscience, 2008, 1, 767-770.	12.9	530
78	The biogeochemical heterogeneity of tropical forests. Trends in Ecology and Evolution, 2008, 23, 424-431.	8.7	266
79	TREE SPECIES CONTROL RATES OF FREE-LIVING NITROGEN FIXATION IN A TROPICAL RAIN FOREST. Ecology, 2008, 89, 2924-2934.	3.2	107
80	The earliest stages of ecosystem succession in high-elevation (5000 metres above sea level), recently deglaciated soils. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 2793-2802.	2.6	222
81	CONTROLS OVER FOLIAR N:P RATIOS IN TROPICAL RAIN FORESTS. Ecology, 2007, 88, 107-118.	3.2	375
82	BIOGEOCHEMICAL CONSEQUENCES OF RAPID MICROBIAL TURNOVER AND SEASONAL SUCCESSION IN SOIL. Ecology, 2007, 88, 1379-1385.	3.2	297
83	Controls Over Leaf Litter and Soil Nitrogen Fixation in Two Lowland Tropical Rain Forests. Biotropica, 2007, 39, 585-592.	1.6	124
84	Microbial Community Succession in an Unvegetated, Recently Deglaciated Soil. Microbial Ecology, 2007, 53, 110-122.	2.8	359
85	Increases in soil respiration following labile carbon additions linked to rapid shifts in soil microbial community composition. Biogeochemistry, 2007, 82, 229-240.	3.5	378
86	C:N:P stoichiometry in soil: is there a â€œRedfield ratioâ€•for the microbial biomass?. Biogeochemistry, 2007, 85, 235-252.	3.5	1,720
87	NUTRIENT REGULATION OF ORGANIC MATTER DECOMPOSITION IN A TROPICAL RAIN FOREST. Ecology, 2006, 87, 492-503.	3.2	225
88	Nutrient additions to a tropical rain forest drive substantial soil carbon dioxide losses to the atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10316-10321.	7.1	379
89	Soil Microbial Dynamics in Costa Rica: Seasonal and Biogeochemical Constraints. Biotropica, 2004, 36, 184-195.	1.6	58
90	Litter effects of two co-occurring alpine species on plant growth, microbial activity and immobilization of nitrogen. Oikos, 2004, 104, 336-344.	2.7	69

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91	Composition, Dynamics, and Fate of Leached Dissolved Organic Matter in Terrestrial Ecosystems: Results from a Decomposition Experiment. Ecosystems, 2004, 7, 175.	3.4	211
92	Nitrogen Cycles: Past, Present, and Future. Biogeochemistry, 2004, 70, 153-226.	3.5	4,203
93	SOIL MICROBIAL DYNAMICS AND BIOGEOCHEMISTRY IN TROPICAL FORESTS AND PASTURES, SOUTHWESTERN COSTA RICA. , 2003, 13, 314-326.		64
94	Human health effects of a changing global nitrogen cycle. Frontiers in Ecology and the Environment, 2003, 1, 240-246.	4.0	370
95	Unexpected changes in soil phosphorus dynamics along pasture chronosequences in the humid tropics. Journal of Geophysical Research, 2002, 107, LBA 34-1.	3.3	46
96	Phosphorus Limitation of Microbial Processes in Moist Tropical Forests: Evidence from Short-term Laboratory Incubations and Field Studies. Ecosystems, 2002, 5, 0680-0691.	3.4	385
97	Towards an ecological understanding of biological nitrogen fixation. Biogeochemistry, 2002, 57, 1-45.	3.5	719
98	Physical and biogeochemical controls over terrestrial ecosystem responses to nitrogen deposition. Biogeochemistry, 2001, 54, 1-39.	3.5	76
99	Nitrogen Deposition In and Around an Intensive Agricultural District in Central New York. Journal of Environmental Quality, 1999, 28, 1585-1600.	2.0	54
100	Global patterns of terrestrial biological nitrogen (N2) fixation in natural ecosystems. Global Biogeochemical Cycles, 1999, 13, 623-645.	4.9	811
101	Microbial Consumption of Atmospheric Isoprene in a Temperate Forest Soil. Applied and Environmental Microbiology, 1998, 64, 172-177.	3.1	92
102	Consumption of atmospheric isoprene in soil. Geophysical Research Letters, 1997, 24, 2379-2382.	4.0	89