

Christopher E Doughty

List of Publications by Citations

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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.

83

papers

4,739

citations

35

h-index

68

g-index

91

ext. papers

5,694

ext. citations

8

avg, IF

5.62

L-index

#	Paper	IF	Citations
83	Drought impact on forest carbon dynamics and fluxes in Amazonia. <i>Nature</i> , 2015 , 519, 78-82	50.4	341
82	Death from drought in tropical forests is triggered by hydraulics not carbon starvation. <i>Nature</i> , 2015 , 528, 119-22	50.4	339
81	Drought sensitivity of Amazonian carbon balance revealed by atmospheric measurements. <i>Nature</i> , 2014 , 506, 76-80	50.4	323
80	The allocation of ecosystem net primary productivity in tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 3225-45	5.8	256
79	Megafauna and ecosystem function from the Pleistocene to the Anthropocene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 838-46	11.5	245
78	Global nutrient transport in a world of giants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 868-73	11.5	215
77	Drivers and mechanisms of tree mortality in moist tropical forests. <i>New Phytologist</i> , 2018 , 219, 851-869	9.8	209
76	Are tropical forests near a high temperature threshold?. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		160
75	Herbivory makes major contributions to ecosystem carbon and nutrient cycling in tropical forests. <i>Ecology Letters</i> , 2014 , 17, 324-32	10	140
74	Rewilding: Science, Practice, and Politics. <i>Annual Review of Environment and Resources</i> , 2015 , 40, 39-62	17.2	135
73	Seasonal patterns of tropical forest leaf area index and CO ₂ exchange. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		127
72	The legacy of the Pleistocene megafauna extinctions on nutrient availability in Amazonia. <i>Nature Geoscience</i> , 2013 , 6, 761-764	18.3	120
71	The linkages between photosynthesis, productivity, growth and biomass in lowland Amazonian forests. <i>Global Change Biology</i> , 2015 , 21, 2283-95	11.4	105
70	Leaf aging of Amazonian canopy trees as revealed by spectral and physiochemical measurements. <i>New Phytologist</i> , 2017 , 214, 1049-1063	9.8	101
69	Animals and the zoogeochemistry of the carbon cycle. <i>Science</i> , 2018 , 362,	33.3	93
68	Residence times of woody biomass in tropical forests. <i>Plant Ecology and Diversity</i> , 2013 , 6, 139-157	2.2	90
67	Predicting tropical plant physiology from leaf and canopy spectroscopy. <i>Oecologia</i> , 2011 , 165, 289-99	2.9	88

66	Allocation trade-offs dominate the response of tropical forest growth to seasonal and interannual drought. <i>Ecology</i> , 2014 , 95, 2192-201	4.6	73
65	The productivity, metabolism and carbon cycle of two lowland tropical forest plots in south-western Amazonia, Peru. <i>Plant Ecology and Diversity</i> , 2014 , 7, 85-105	2.2	73
64	Temperature and rainfall interact to control carbon cycling in tropical forests. <i>Ecology Letters</i> , 2017 , 20, 779-788	10	71
63	The variation of productivity and its allocation along a tropical elevation gradient: a whole carbon budget perspective. <i>New Phytologist</i> , 2017 , 214, 1019-1032	9.8	68
62	Megafauna extinction, tree species range reduction, and carbon storage in Amazonian forests. <i>Ecography</i> , 2016 , 39, 194-203	6.5	64
61	Lateral diffusion of nutrients by mammalian herbivores in terrestrial ecosystems. <i>PLoS ONE</i> , 2013 , 8, e71352	3.7	59
60	Biophysical feedbacks between the Pleistocene megafauna extinction and climate: The first human-induced global warming?. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	58
59	An In Situ Leaf and Branch Warming Experiment in the Amazon. <i>Biotropica</i> , 2011 , 43, 658-665	2.3	56
58	Productivity and carbon allocation in a tropical montane cloud forest in the Peruvian Andes. <i>Plant Ecology and Diversity</i> , 2014 , 7, 107-123	2.2	55
57	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	5.9	52
56	Ecosystem respiration and net primary productivity after 800 years of experimental through-fall reduction in an eastern Amazon forest. <i>Plant Ecology and Diversity</i> , 2014 , 7, 7-24	2.2	43
55	The impact of the megafauna extinctions on savanna woody cover in South America. <i>Ecography</i> , 2016 , 39, 213-222	6.5	42
54	The production, allocation and cycling of carbon in a forest on fertile terra preta soil in eastern Amazonia compared with a forest on adjacent infertile soil. <i>Plant Ecology and Diversity</i> , 2014 , 7, 41-53	2.2	40
53	Can crop albedo be increased through the modification of leaf trichomes, and could this cool regional climate?. <i>Climatic Change</i> , 2011 , 104, 379-387	4.5	39
52	Seasonal production, allocation and cycling of carbon in two mid-elevation tropical montane forest plots in the Peruvian Andes. <i>Plant Ecology and Diversity</i> , 2014 , 7, 125-142	2.2	38
51	Megafauna in the Earth system. <i>Ecography</i> , 2016 , 39, 99-108	6.5	37
50	Ecosystem productivity and carbon cycling in intact and annually burnt forest at the dry southern limit of the Amazon rainforest (Mato Grosso, Brazil). <i>Plant Ecology and Diversity</i> , 2014 , 7, 25-40	2.2	36
49	The megabiota are disproportionately important for biosphere functioning. <i>Nature Communications</i> , 2020 , 11, 699	17.4	35

48	Seasonal trends of Amazonian rainforest phenology, net primary productivity, and carbon allocation. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 700-715	5.9	34
47	The sensitivity of wood production to seasonal and interannual variations in climate in a lowland Amazonian rainforest. <i>Oecologia</i> , 2014 , 174, 295-306	2.9	34
46	Source and sink carbon dynamics and carbon allocation in the Amazon basin. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 645-655	5.9	33
45	Effect of smoke on subcanopy shaded light, canopy temperature, and carbon dioxide uptake in an Amazon rainforest. <i>Global Biogeochemical Cycles</i> , 2010 , 24, n/a-n/a	5.9	33
44	Preindustrial Human Impacts on Global and Regional Environment. <i>Annual Review of Environment and Resources</i> , 2013 , 38, 503-527	17.2	32
43	Circadian rhythms constrain leaf and canopy gas exchange in an Amazonian forest. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	32
42	Detecting tree-like multicellular life on extrasolar planets. <i>Astrobiology</i> , 2010 , 10, 869-79	3.7	30
41	Assessing trait-based scaling theory in tropical forests spanning a broad temperature gradient. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1357-1373	6.1	29
40	Modelling climate change responses in tropical forests: similar productivity estimates across five models, but different mechanisms and responses. <i>Geoscientific Model Development</i> , 2015 , 8, 1097-1110	6.3	29
39	The productivity, allocation and cycling of carbon in forests at the dry margin of the Amazon forest in Bolivia. <i>Plant Ecology and Diversity</i> , 2014 , 7, 55-69	2.2	28
38	ENSO Drives interannual variation of forest woody growth across the tropics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	28
37	Carbon stocks in central African forests enhanced by elephant disturbance. <i>Nature Geoscience</i> , 2019 , 12, 725-729	18.3	26
36	The seasonal cycle of productivity, metabolism and carbon dynamics in a wet aseasonal forest in north-west Amazonia (Iquitos, Peru). <i>Plant Ecology and Diversity</i> , 2014 , 7, 71-83	2.2	22
35	Andean grasslands are as productive as tropical cloud forests. <i>Environmental Research Letters</i> , 2014 , 9, 115011	6.2	21
34	Herbivores increase the global availability of nutrients over millions of years. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1820-1827	12.3	20
33	What controls variation in carbon use efficiency among Amazonian tropical forests?. <i>Biotropica</i> , 2018 , 50, 16-25	2.3	20
32	Seasonality of above-ground net primary productivity along an Andean altitudinal transect in Peru. <i>Journal of Tropical Ecology</i> , 2014 , 30, 503-519	1.3	20
31	Assessing the role of megafauna in tropical forest ecosystems and biogeochemical cycles in the potential of vegetation models. <i>Ecography</i> , 2018 , 41, 1934-1954	6.5	19

30	Theoretical Impact of Changing Albedo on Precipitation at the Southernmost Boundary of the ITCZ in South America. <i>Earth Interactions</i> , 2012 , 16, 1-14	1.5	18
29	Interdependency of plants and animals in controlling the sodium balance of ecosystems and the impacts of global defaunation. <i>Ecography</i> , 2016 , 39, 204-212	6.5	18
28	Assessing above-ground woody debris dynamics along a gradient of elevation in Amazonian cloud forests in Peru: balancing above-ground inputs and respiration outputs. <i>Plant Ecology and Diversity</i> , 2014 , 7, 143-160	2.2	17
27	Mapping the Leaf Economic Spectrum across West African Tropical Forests Using UAV-Acquired Hyperspectral Imagery. <i>Remote Sensing</i> , 2018 , 10, 1532	5	16
26	Tropical forest leaves may darken in response to climate change. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1918-1924	12.3	16
25	Impacts of fire on sources of soil CO efflux in a dry Amazon rain forest. <i>Global Change Biology</i> , 2018 , 24, 3629-3641	11.4	15
24	Mycorrhizal symbioses influence the trophic structure of the Serengeti. <i>Journal of Ecology</i> , 2018 , 106, 536-546	6	14
23	The impact of large animal extinctions on nutrient fluxes in early river valley civilizations. <i>Ecosphere</i> , 2013 , 4, art148	3.1	14
22	Individual-Based Modeling of Amazon Forests Suggests That Climate Controls Productivity While Traits Control Demography. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	12
21	The Global Ecosystems Monitoring network: Monitoring ecosystem productivity and carbon cycling across the tropics. <i>Biological Conservation</i> , 2021 , 253, 108889	6.2	12
20	Agricultural net primary production in relation to that liberated by the extinction of Pleistocene mega-herbivores: an estimate of agricultural carrying capacity?. <i>Environmental Research Letters</i> , 2010 , 5, 044001	6.2	11
19	Can Leaf Spectroscopy Predict Leaf and Forest Traits Along a Peruvian Tropical Forest Elevation Gradient?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 2952-2965	3.7	10
18	Montane forest root growth and soil organic layer depth as potential factors stabilizing Cenozoic global change. <i>Geophysical Research Letters</i> , 2014 , 41, 983-990	4.9	9
17	The development of agriculture in the Americas: an ecological perspective. <i>Ecosphere</i> , 2010 , 1, art21	3.1	9
16	Megafauna decline have reduced pathogen dispersal which may have increased emergent infectious diseases. <i>Ecography</i> , 2020 , 43, 1107-1117	6.5	7
15	Greater stem growth, woody allocation, and aboveground biomass in Paleotropical forests than in Neotropical forests. <i>Ecology</i> , 2019 , 100, e02589	4.6	5
14	Changing NPP consumption patterns in the Holocene: From megafauna-liberated NPP to Ecological bankruptcy <i>Infrastructure Asset Management</i> , 2016 , 3, 174-187	1.8	4
13	Variations of carbon allocation and turnover time across tropical forests. <i>Global Ecology and Biogeography</i> , 2021 , 30, 1271-1285	6.1	3

12	Detecting 3D Vegetation Structure with the Galileo Space Probe: Can a Distant Probe Detect Vegetation Structure on Earth?. <i>PLoS ONE</i> , 2016 , 11, e0167188	3.7	2
11	Megafauna decline have reduced pathogen dispersal which may have increased emergent infectious diseases		2
10	Large predators can mitigate nutrient losses associated with off-site removal of animals from a wildlife reserve. <i>Journal of Applied Ecology</i> , 2021 , 58, 1360	5.8	2
9	Fine root dynamics across pantropical rainforest ecosystems. <i>Global Change Biology</i> , 2021 , 27, 3657-3680	1.4	2
8	Predicting tropical tree mortality with leaf spectroscopy. <i>Biotropica</i> , 2021 , 53, 581-595	2.3	1
7	Hyaenas play unique ecosystem role by recycling key nutrients in bones. <i>African Journal of Ecology</i> ,	0.8	1
6	Improved estimation of gut passage time considerably affects trait-based dispersal models. <i>Functional Ecology</i> , 2021 , 35, 860-869	5.6	1
5	The Biogeochemistry of the Main Forest Vegetation Types in Amazonia. <i>Ecological Studies</i> , 2016 , 225-266	1	0
4	The sixth R: Revitalizing the natural phosphorus pump.. <i>Science of the Total Environment</i> , 2022 , 832, 1550232	0.2	0
3	Reply to 'Coal geology affects nutrient diffusion modelling in the prehistoric record'. <i>Nature Ecology and Evolution</i> , 2019 , 3, 507	12.3	
2	Distinguishing multicellular life on exoplanets by testing Earth as an exoplanet. <i>International Journal of Astrobiology</i> , 2020 , 19, 492-499	1.4	
1	Forest Thinning in Ponderosa Pines Increases Carbon Use Efficiency and Energy Flow From Primary Producers to Primary Consumers. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG005947	2.7	