

Jeffrey Q Chambers

List of Publications by Citations

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113
papers

10,613
citations

39
h-index

103
g-index

119
ext. papers

12,116
ext. citations

7.6
avg, IF

5.54
L-index

#	Paper	IF	Citations
113	Tree allometry and improved estimation of carbon stocks and balance in tropical forests. <i>Oecologia</i> , 2005 , 145, 87-99	2.9	1855
112	TRY – a global database of plant traits. <i>Global Change Biology</i> , 2011 , 17, 2905-2935	11.4	1623
111	MEASURING NET PRIMARY PRODUCTION IN FORESTS: CONCEPTS AND FIELD METHODS 2001 , 11, 356-370		624
110	NET PRIMARY PRODUCTION IN TROPICAL FORESTS: AN EVALUATION AND SYNTHESIS OF EXISTING FIELD DATA 2001 , 11, 371-384		441
109	Decomposition and carbon cycling of dead trees in tropical forests of the central Amazon. <i>Oecologia</i> , 2000 , 122, 380-388	2.9	308
108	Tree damage, allometric relationships, and above-ground net primary production in central Amazon forest. <i>Forest Ecology and Management</i> , 2001 , 152, 73-84	3.9	300
107	Relationship between soils and Amazon forest biomass: a landscape-scale study. <i>Forest Ecology and Management</i> , 1999 , 118, 127-138	3.9	284
106	RESPIRATION FROM A TROPICAL FOREST ECOSYSTEM: PARTITIONING OF SOURCES AND LOW CARBON USE EFFICIENCY 2004 , 14, 72-88		280
105	The effects of partial throughfall exclusion on canopy processes, aboveground production, and biogeochemistry of an Amazon forest. <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 53-1		267
104	Comprehensive assessment of carbon productivity, allocation and storage in three Amazonian forests. <i>Global Change Biology</i> , 2009 , 15, 1255-1274	11.4	248
103	Regional ecosystem structure and function: ecological insights from remote sensing of tropical forests. <i>Trends in Ecology and Evolution</i> , 2007 , 22, 414-23	10.9	225
102	Forest disturbance and recovery: A general review in the context of spaceborne remote sensing of impacts on aboveground biomass and canopy structure. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		224
101	Drivers and mechanisms of tree mortality in moist tropical forests. <i>New Phytologist</i> , 2018 , 219, 851-869	9.8	209
100	Hurricane Katrina's carbon footprint on U.S. Gulf Coast forests. <i>Science</i> , 2007 , 318, 1107	33.3	208
99	Ancient trees in Amazonia. <i>Nature</i> , 1998 , 391, 135-136	50.4	195
98	The steady-state mosaic of disturbance and succession across an old-growth Central Amazon forest landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3949-54	11.5	148
97	Global satellite monitoring of climate-induced vegetation disturbances. <i>Trends in Plant Science</i> , 2015 , 20, 114-23	13.1	142

96	Forest structure and carbon dynamics in Amazonian tropical rain forests. <i>Oecologia</i> , 2004 , 140, 468-79	2.9	140
95	Clustered disturbances lead to bias in large-scale estimates based on forest sample plots. <i>Ecology Letters</i> , 2008 , 11, 554-63	10	131
94	Respiration from coarse wood litter in central Amazon forests. <i>Biogeochemistry</i> , 2001 , 52, 115-131	3.8	130
93	Immunological cost of chemical defence and the evolution of herbivore diet breadth. <i>Ecology Letters</i> , 2009 , 12, 612-21	10	127
92	Toward an integrated monitoring framework to assess the effects of tropical forest degradation and recovery on carbon stocks and biodiversity. <i>Global Change Biology</i> , 2016 , 22, 92-109	11.4	126
91	Slow growth rates of Amazonian trees: consequences for carbon cycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 18502-7	11.5	118
90	Response of tree biomass and wood litter to disturbance in a Central Amazon forest. <i>Oecologia</i> , 2004 , 141, 596-611	2.9	102
89	Diameter increment and growth patterns for individual tree growing in Central Amazon, Brazil. <i>Forest Ecology and Management</i> , 2002 , 166, 295-301	3.9	102
88	Acclimation and adaptation components of the temperature dependence of plant photosynthesis at the global scale. <i>New Phytologist</i> , 2019 , 222, 768-784	9.8	99
87	Carbon sink for a century. <i>Nature</i> , 2001 , 410, 429	50.4	98
86	Widespread Amazon forest tree mortality from a single cross-basin squall line event. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	92
85	Biomass change in an Atlantic tropical moist forest: the ENSO effect in permanent sample plots over a 22-year period. <i>Oecologia</i> , 2005 , 142, 238-46	2.9	87
84	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
83	Impacts of tropical cyclones on U.S. forest tree mortality and carbon flux from 1851 to 2000. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7888-92	11.5	70
82	Hurricane Katrina impacts on forest trees of Louisiana's Pearl River basin. <i>Forest Ecology and Management</i> , 2008 , 256, 883-889	3.9	69
81	Emissions of putative isoprene oxidation products from mango branches under abiotic stress. <i>Journal of Experimental Botany</i> , 2013 , 64, 3697-708	7	59
80	Controls on terrestrial carbon feedbacks by productivity versus turnover in the CMIP5 Earth System Models. <i>Biogeosciences</i> , 2015 , 12, 5211-5228	4.6	58
79	Highly reactive light-dependent monoterpenes in the Amazon. <i>Geophysical Research Letters</i> , 2015 , 42, 1576-1583	4.9	52

78	Large-scale wind disturbances promote tree diversity in a Central Amazon forest. <i>PLoS ONE</i> , 2014 , 9, e103711	3.7	51
77	Seeing the forest beyond the trees. <i>Global Ecology and Biogeography</i> , 2015 , 24, 606-610	6.1	50
76	Observed allocations of productivity and biomass, and turnover times in tropical forests are not accurately represented in CMIP5 Earth system models. <i>Environmental Research Letters</i> , 2015 , 10, 064017	6.2	43
75	What's the flux? Unraveling how CO ₂ fluxes from trees reflect underlying physiological processes. <i>New Phytologist</i> , 2013 , 197, 353-355	9.8	40
74	Detection of subpixel treefall gaps with Landsat imagery in Central Amazon forests. <i>Remote Sensing of Environment</i> , 2011 , 115, 3322-3328	13.2	38
73	Regional Differences in South American Monsoon Precipitation Inferred from the Growth and Isotopic Composition of Tropical Trees*. <i>Earth Interactions</i> , 2011 , 15, 1-35	1.5	38
72	Benchmarking and parameter sensitivity of physiological and vegetation dynamics using the Functionally Assembled Terrestrial Ecosystem Simulator (FATES) at Barro Colorado Island, Panama. <i>Biogeosciences</i> , 2020 , 17, 3017-3044	4.6	35
71	Internal respiration of Amazon tree stems greatly exceeds external CO ₂ efflux. <i>Biogeosciences</i> , 2012 , 9, 4979-4991	4.6	34
70	Assessing hurricane-induced tree mortality in U.S. Gulf Coast forest ecosystems. <i>Journal of Geophysical Research</i> , 2010 , 115,		33
69	Hyperspectral remote detection of niche partitioning among canopy trees driven by blowdown gap disturbances in the Central Amazon. <i>Oecologia</i> , 2009 , 160, 107-117	2.9	33
68	Dynamic balancing of isoprene carbon sources reflects photosynthetic and photorespiratory responses to temperature stress. <i>Plant Physiology</i> , 2014 , 166, 2051-64	6.6	32
67	Lack of intermediate-scale disturbance data prevents robust extrapolation of plot-level tree mortality rates for old-growth tropical forests. <i>Ecology Letters</i> , 2009 , 12, E22-E25	10	32
66	Monoterpene thermometer of tropical forest-atmosphere response to climate warming. <i>Plant, Cell and Environment</i> , 2017 , 40, 441-452	8.4	31
65	Delayed tree mortality and Chinese tallow (<i>Triadica sebifera</i>) population explosion in a Louisiana bottomland hardwood forest following Hurricane Katrina. <i>Forest Ecology and Management</i> , 2016 , 378, 222-232	3.9	31
64	Carbon dioxide emitted from live stems of tropical trees is several years old. <i>Tree Physiology</i> , 2013 , 33, 743-52	4.2	30
63	Using ICESat's Geoscience Laser Altimeter System (GLAS) to assess large-scale forest disturbance caused by hurricane Katrina. <i>Remote Sensing of Environment</i> , 2011 , 115, 86-96	13.2	29
62	Vulnerability of Amazon forests to storm-driven tree mortality. <i>Environmental Research Letters</i> , 2018 , 13, 054021	6.2	27
61	Green Leaf Volatile Emissions during High Temperature and Drought Stress in a Central Amazon Rainforest. <i>Plants</i> , 2015 , 4, 678-90	4.5	27

60	Landscape-scale consequences of differential tree mortality from catastrophic wind disturbance in the Amazon. <i>Ecological Applications</i> , 2016 , 26, 2225-2237	4.9	26
59	Revealing the causes and temporal distribution of tree mortality in Central Amazonia. <i>Forest Ecology and Management</i> , 2018 , 424, 177-183	3.9	25
58	Multi-scale sensitivity of Landsat and MODIS to forest disturbance associated with tropical cyclones. <i>Remote Sensing of Environment</i> , 2014 , 140, 679-689	13.2	25
57	The impacts of tropical cyclones on the net carbon balance of eastern US forests (1851-2000). <i>Environmental Research Letters</i> , 2013 , 8, 045017	6.2	25
56	Windthrows control biomass patterns and functional composition of Amazon forests. <i>Global Change Biology</i> , 2018 , 24, 5867-5881	11.4	25
55	Climate sensitive size-dependent survival in tropical trees. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1436-1443	14.3	23
54	Dry and hot: the hydraulic consequences of a climate change-type drought for Amazonian trees. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	23
53	Mechanical vulnerability and resistance to snapping and uprooting for Central Amazon tree species. <i>Forest Ecology and Management</i> , 2016 , 380, 1-10	3.9	22
52	Restoration of Pasture to Forest in Brazil's Mata Atlântica: The Roles of Herbivory, Seedling Defenses, and Plot Design in Reforestation. <i>Restoration Ecology</i> , 2011 , 19, 257-267	3.1	22
51	Variation in hydroclimate sustains tropical forest biomass and promotes functional diversity. <i>New Phytologist</i> , 2018 , 219, 932-946	9.8	22
50	DINÂMICA E BALANÇO DO CARBONO DA VEGETAÇÃO PRIMÁRIA DA AMAZÔNIA CENTRAL. <i>Floresta</i> , 2004 , 34,	0.6	21
49	Methanol and isoprene emissions from the fast growing tropical pioneer species <i>Vismia guianensis</i> (Aubl.) Pers. (Hypericaceae) in the central Amazon forest. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6441-6452	6.8	20
48	Projeto de dinâmica da floresta natural de Terra-firme, região de Manaus-AM, com o uso da cadeia de transição probabilística de Markov. <i>Acta Amazonica</i> , 2007 , 37, 377-384	0.8	19
47	Forest response to increased disturbance in the central Amazon and comparison to western Amazonian forests. <i>Biogeosciences</i> , 2014 , 11, 5773-5794	4.6	18
46	Identification of key parameters controlling demographically structured vegetation dynamics in a land surface model: CLM4.5(FATES). <i>Geoscientific Model Development</i> , 2019 , 12, 4133-4164	6.3	16
45	Remote Sensing Assessment of Forest Disturbance across Complex Mountainous Terrain: The Pattern and Severity of Impacts of Tropical Cyclone Yasi on Australian Rainforests. <i>Remote Sensing</i> , 2014 , 6, 5633-5649	5	16
44	Parameter estimation for a global model of terrestrial biogeochemical cycling by an iterative method. <i>Ecological Modelling</i> , 2001 , 139, 137-175	3	15
43	Critical wind speeds suggest wind could be an important disturbance agent in Amazonian forests. <i>Forestry</i> , 2019 , 92, 444-459	2.2	14

42	Remote sensing and statistical analysis of the effects of hurricane Marí̃a on the forests of Puerto Rico. <i>Remote Sensing of Environment</i> , 2020 , 247, 111940	13.2	14
41	Windthrow Variability in Central Amazonia. <i>Atmosphere</i> , 2017 , 8, 28	2.7	14
40	Recognizing Amazonian tree species in the field using bark tissues spectra. <i>Forest Ecology and Management</i> , 2018 , 427, 296-304	3.9	14
39	Interannual Variation in Hydrologic Budgets in an Amazonian Watershed with a Coupled Subsurface and Surface Process Model. <i>Journal of Hydrometeorology</i> , 2017 , 18, 2597-2617	3.7	14
38	Influence of landscape heterogeneity on water available to tropical forests in an Amazonian catchment and implications for modeling drought response. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8410-8426	4.4	14
37	Convergent evolution of tree hydraulic traits in Amazonian habitats: implications for community assemblage and vulnerability to drought. <i>New Phytologist</i> , 2020 , 228, 106-120	9.8	14
36	Predicting biomass of hyperdiverse and structurally complex central Amazonian forests a virtual approach using extensive field data. <i>Biogeosciences</i> , 2016 , 13, 1553-1570	4.6	13
35	The Central Amazon Biomass Sink Under Current and Future Atmospheric CO ₂ : Predictions From Big-Leaf and Demographic Vegetation Models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005500	3.7	12
34	Integration of C ₃ and C ₄ Metabolism in Trees. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	12
33	Hurricane driven changes in land cover create biogeophysical climate feedbacks. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	12
32	Tropical forest carbon balance: effects of field- and satellite-based mortality regimes on the dynamics and the spatial structure of Central Amazon forest biomass. <i>Environmental Research Letters</i> , 2014 , 9, 034010	6.2	11
31	Leaf isoprene and monoterpene emission distribution across hyperdominant tree genera in the Amazon basin. <i>Phytochemistry</i> , 2020 , 175, 112366	4	10
30	Harnessing cross-border resources to confront climate change. <i>Environmental Science and Policy</i> , 2018 , 87, 128-132	6.2	9
29	Precipitation mediates sap flux sensitivity to evaporative demand in the neotropics. <i>Oecologia</i> , 2019 , 191, 519-530	2.9	8
28	Stimulation of isoprene emissions and electron transport rates as key mechanisms of thermal tolerance in the tropical species <i>Vismia guianensis</i> . <i>Global Change Biology</i> , 2020 , 26, 5928-5941	11.4	8
27	Species-Specific Shifts in Diurnal Sap Velocity Dynamics and Hysteretic Behavior of Ecophysiological Variables During the 2015-2016 El Niño Event in the Amazon Forest. <i>Frontiers in Plant Science</i> , 2019 , 10, 830	6.2	8
26	Rapid remote sensing assessment of impacts from Hurricane Maria on forests of Puerto Rico		8
25	Volatile monoterpene fingerprints of resinous <i>Protium</i> tree species in the Amazon rainforest. <i>Phytochemistry</i> , 2019 , 160, 61-70	4	7

24	Forest responses to simulated elevated CO under alternate hypotheses of size- and age-dependent mortality. <i>Global Change Biology</i> , 2020 , 26, 5734-5753	11.4	7
23	Below versus above Ground Plant Sources of Abscisic Acid (ABA) at the Heart of Tropical Forest Response to Warming. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	7
22	A metadata reporting framework (FRAMES) for synthesis of ecohydrological observations. <i>Ecological Informatics</i> , 2017 , 42, 148-158	4.2	7
21	The contribution of respiration in tree stems to the Dole Effect. <i>Biogeosciences</i> , 2012 , 9, 4037-4044	4.6	6
20	Uso de banda dendrométrica na definição de padrões de crescimento individual em diâmetro de árvores da bacia do rio Cuieiras. <i>Acta Amazonica</i> , 2003 , 33, 67-84	0.8	6
19	Novel tropical forests: response to global change. <i>New Phytologist</i> , 2017 , 213, 988-992	9.8	5
18	Ecology: drought in the congo basin. <i>Nature</i> , 2014 , 509, 36-7	50.4	4
17	Regional distribution of large blowdown patches across Amazonia in 2005 caused by a single convective squall line. <i>Geophysical Research Letters</i> , 2017 , 44, 7793-7798	4.9	4
16	An age-old problem. <i>Trends in Plant Science</i> , 1999 , 4, 385-386	13.1	4
15	Calibration, measurement, and characterization of soil moisture dynamics in a central Amazonian tropical forest. <i>Vadose Zone Journal</i> , 2020 , 19, e20070	2.7	4
14	Integrating high resolution drone imagery and forest inventory to distinguish canopy and understory trees and quantify their contributions to forest structure and dynamics. <i>PLoS ONE</i> , 2020 , 15, e0243079	3.7	3
13	Rapid remote sensing assessment of impacts from Hurricane Maria on forests of Puerto Rico		3
12	The Rainfall Sensitivity of Tropical Net Primary Production in CMIP5 Twentieth- and Twenty-First-Century Simulations*. <i>Journal of Climate</i> , 2015 , 28, 9313-9331	4.4	1
11	Recovery of Forest Structure Following Large-Scale Windthrows in the Northwestern Amazon. <i>Forests</i> , 2021 , 12, 667	2.8	1
10	Dry Season Transpiration and Soil Water Dynamics in the Central Amazon.. <i>Frontiers in Plant Science</i> , 2022 , 13, 825097	6.2	1
9	Stem respiration and growth in a central Amazon rainforest. <i>Trees - Structure and Function</i> , 1	2.6	0
8	Landsat near-infrared (NIR) band and ELM-FATES sensitivity to forest disturbances and regrowth in the Central Amazon. <i>Biogeosciences</i> , 2020 , 17, 6185-6205	4.6	0
7	Multi-cyclone analysis and machine learning model implications of cyclone effects on forests. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021 , 103, 102528	7.3	0

- 6 Integrating high resolution drone imagery and forest inventory to distinguish canopy and understory trees and quantify their contributions to forest structure and dynamics **2020**, 15, e0243079
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