Jeffrey Q Chambers

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.

| 113 | 10,613 | 39 | 103 |
|--------------------|-----------------------|--------------------|-----------------|
| papers | citations | h-index | g-index |
| 119 ext. papers | 12,116 ext. citations | 7.6 avg, IF | 5.54 L-index |

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 113 | Dry Season Transpiration and Soil Water Dynamics in the Central Amazon <i>Frontiers in Plant Science</i> , 2022 , 13, 825097 | 6.2 | 1 |
| 112 | Recovery of Forest Structure Following Large-Scale Windthrows in the Northwestern Amazon. <i>Forests</i> , 2021 , 12, 667 | 2.8 | 1 |
| 111 | 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 | O |
| 110 | Stimulation of isoprene emissions and electron transport rates as key mechanisms of thermal tolerance in the tropical species Vismia guianensis. <i>Global Change Biology</i> , 2020 , 26, 5928-5941 | 11.4 | 8 |
| 109 | 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 |
| 108 | Remote sensing and statistical analysis of the effects of hurricane Mar [®] on the forests of Puerto Rico. <i>Remote Sensing of Environment</i> , 2020 , 247, 111940 | 13.2 | 14 |
| 107 | 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 |
| 106 | The Central Amazon Biomass Sink Under Current and Future Atmospheric CO2: Predictions From Big-Leaf and Demographic Vegetation Models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005500 | 3.7 | 12 |
| 105 | Leaf isoprene and monoterpene emission distribution across hyperdominant tree genera in the Amazon basin. <i>Phytochemistry</i> , 2020 , 175, 112366 | 4 | 10 |
| 104 | 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 |
| 103 | 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 |
| 102 | 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 | O |
| 101 | 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 |
| 100 | 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 | | |
| 99 | 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 | | |
| 98 | 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 | | |
| 97 | 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 | | |

(2018-2020)

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

| 95 | 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 | | |
|----|--|------|-----|
| 94 | Precipitation mediates sap flux sensitivity to evaporative demand in the neotropics. <i>Oecologia</i> , 2019 , 191, 519-530 | 2.9 | 8 |
| 93 | Critical wind speeds suggest wind could be an important disturbance agent in Amazonian forests. <i>Forestry</i> , 2019 , 92, 444-459 | 2.2 | 14 |
| 92 | Volatile monoterpene FingerprintsPof resinous Protium tree species in the Amazon rainforest. <i>Phytochemistry</i> , 2019 , 160, 61-70 | 4 | 7 |
| 91 | Species-Specific Shifts in Diurnal Sap Velocity Dynamics and Hysteretic Behavior of Ecophysiological Variables During the 2015-2016 El Ni ^o Event in the Amazon Forest. <i>Frontiers in Plant Science</i> , 2019 , 10, 830 | 6.2 | 8 |
| 90 | 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 |
| 89 | 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 |
| 88 | Harnessing cross-border resources to confront climate change. <i>Environmental Science and Policy</i> , 2018 , 87, 128-132 | 6.2 | 9 |
| 87 | Vulnerability of Amazon forests to storm-driven tree mortality. <i>Environmental Research Letters</i> , 2018 , 13, 054021 | 6.2 | 27 |
| 86 | Drivers and mechanisms of tree mortality in moist tropical forests. New Phytologist, 2018, 219, 851-869 | 9.8 | 209 |
| 85 | 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 |
| 84 | Climate sensitive size-dependent survival in tropical trees. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1436-7 | 1442 | 23 |
| 83 | 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 |
| 82 | Recognizing Amazonian tree species in the field using bark tissues spectra. <i>Forest Ecology and Management</i> , 2018 , 427, 296-304 | 3.9 | 14 |
| 81 | Variation in hydroclimate sustains tropical forest biomass and promotes functional diversity. <i>New Phytologist</i> , 2018 , 219, 932-946 | 9.8 | 22 |
| 80 | 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 |
| 79 | Windthrows control biomass patterns and functional composition of Amazon forests. <i>Global Change Biology</i> , 2018 , 24, 5867-5881 | 11.4 | 25 |

| 78 | Novel tropical forests: response to global change. New Phytologist, 2017, 213, 988-992 | 9.8 | 5 |
|----|--|------------------|-----|
| 77 | Monoterpene RhermometerPof tropical forest-atmosphere response to climate warming. <i>Plant, Cell and Environment</i> , 2017 , 40, 441-452 | 8.4 | 31 |
| 76 | Windthrow Variability in Central Amazonia. Atmosphere, 2017, 8, 28 | 2.7 | 14 |
| 75 | Interannual Variation in Hydrologic Budgets in an Amazonian Watershed with a Coupled Subsurfaceâlland Surface Process Model. <i>Journal of Hydrometeorology</i> , 2017 , 18, 2597-2617 | 3.7 | 14 |
| 74 | A metadata reporting framework (FRAMES) for synthesis of ecohydrological observations. <i>Ecological Informatics</i> , 2017 , 42, 148-158 | 4.2 | 7 |
| 73 | 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 |
| 72 | 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 |
| 71 | Integration of Câland CâlMetabolism in Trees. International Journal of Molecular Sciences, 2017, 18, | 6.3 | 12 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | Predicting biomass of hyperdiverse and structurally complex central Amazonian forests âla virtual approach using extensive field data. <i>Biogeosciences</i> , 2016 , 13, 1553-1570 | 4.6 | 13 |
| 66 | 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 |
| 65 | Delayed tree mortality and Chinese tallow (Triadica sebifera) 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 | Seeing the forest beyond the trees. Global Ecology and Biogeography, 2015, 24, 606-610 | 6.1 | 50 |
| 63 | 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, 06401 | 7 6.2 | 43 |
| 62 | 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 |
| 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 |

(2011-2015)

| 60 | 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 |
|----|---|------|-----|
| 59 | Highly reactive light-dependent monoterpenes in the Amazon. <i>Geophysical Research Letters</i> , 2015 , 42, 1576-1583 | 4.9 | 52 |
| 58 | Global satellite monitoring of climate-induced vegetation disturbances. <i>Trends in Plant Science</i> , 2015 , 20, 114-23 | 13.1 | 142 |
| 57 | 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 |
| 56 | Ecology: drought in the congo basin. <i>Nature</i> , 2014 , 509, 36-7 | 50.4 | 4 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | Large-scale wind disturbances promote tree diversity in a Central Amazon forest. <i>PLoS ONE</i> , 2014 , 9, e103711 | 3.7 | 51 |
| 50 | Whatß the flux? Unraveling how COâlfluxes from trees reflect underlying physiological processes. <i>New Phytologist</i> , 2013 , 197, 353-355 | 9.8 | 40 |
| 49 | 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 |
| 48 | Carbon dioxide emitted from live stems of tropical trees is several years old. <i>Tree Physiology</i> , 2013 , 33, 743-52 | 4.2 | 30 |
| 47 | Emissions of putative isoprene oxidation products from mango branches under abiotic stress. Journal of Experimental Botany, 2013 , 64, 3697-708 | 7 | 59 |
| 46 | The impacts of tropical cyclones on the net carbon balance of eastern US forests (1851â\(\textit{\textit{0}}\)000). <i>Environmental Research Letters</i> , 2013 , 8, 045017 | 6.2 | 25 |
| 45 | The contribution of respiration in tree stems to the Dole Effect. <i>Biogeosciences</i> , 2012 , 9, 4037-4044 | 4.6 | 6 |
| 44 | Internal respiration of Amazon tree stems greatly exceeds external CO₂ efflux. <i>Biogeosciences</i> , 2012 , 9, 4979-4991 | 4.6 | 34 |
| 43 | 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 |

| 42 | TRY âla global database of plant traits. <i>Global Change Biology</i> , 2011 , 17, 2905-2935 | 11.4 | 1623 |
|----|---|------|------|
| 41 | Restoration of Pasture to Forest in Brazil® Mata Atl [®] litica: The Roles of Herbivory, Seedling Defenses, and Plot Design in Reforestation. <i>Restoration Ecology</i> , 2011 , 19, 257-267 | 3.1 | 22 |
| 40 | Using ICESatß 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 |
| 39 | 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 |
| 38 | Assessing hurricane-induced tree mortality in U.S. Gulf Coast forest ecosystems. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 33 |
| 37 | 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 |
| 36 | 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 |
| 35 | Hyperspectral remote detection of niche partitioning among canopy trees driven by blowdown gap disturbances in the Central Amazon. <i>Oecologia</i> , 2009 , 160, 107-17 | 2.9 | 33 |
| 34 | Comprehensive assessment of carbon productivity, allocation and storage in three Amazonian forests. <i>Global Change Biology</i> , 2009 , 15, 1255-1274 | 11.4 | 248 |
| 33 | Immunological cost of chemical defence and the evolution of herbivore diet breadth. <i>Ecology Letters</i> , 2009 , 12, 612-21 | 10 | 127 |
| 32 | 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 |
| 31 | 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 |
| 30 | Clustered disturbances lead to bias in large-scale estimates based on forest sample plots. <i>Ecology Letters</i> , 2008 , 11, 554-63 | 10 | 131 |
| 29 | Hurricane Katrina impacts on forest trees of Louisianaß Pearl River basin. <i>Forest Ecology and Management</i> , 2008 , 256, 883-889 | 3.9 | 69 |
| 28 | Hurricane driven changes in land cover create biogeophysical climate feedbacks. <i>Geophysical Research Letters</i> , 2008 , 35, | 4.9 | 12 |
| 27 | Proje [^] [] [5] da din [^] [5] tica da floresta natural de Terra-firme, regi [^] [5] de Manaus-AM, com o uso da cadeia de transi [^] [1] [5] probabil [^] [5] tica de Markov. <i>Acta Amazonica</i> , 2007 , 37, 377-384 | 0.8 | 19 |
| 26 | Hurricane Katrinaß carbon footprint on U.S. Gulf Coast forests. <i>Science</i> , 2007 , 318, 1107 | 33.3 | 208 |
| 25 | 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 |

(2000-2005)

| 24 | 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 |
|----|--|------|------|
| 23 | Tree allometry and improved estimation of carbon stocks and balance in tropical forests. <i>Oecologia</i> , 2005 , 145, 87-99 | 2.9 | 1855 |
| 22 | 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 |
| 21 | DIN^ MICA E BALAN^ D DO CARBONO DA VEGETA^ 🛮 D PRIM^ RIA DA AMAZ^ NIA CENTRAL. Floresta, 2004 , 34, | 0.6 | 21 |
| 20 | RESPIRATION FROM A TROPICAL FOREST ECOSYSTEM: PARTITIONING OF SOURCES AND LOW CARBON USE EFFICIENCY 2004 , 14, 72-88 | | 280 |
| 19 | Forest structure and carbon dynamics in Amazonian tropical rain forests. <i>Oecologia</i> , 2004 , 140, 468-79 | 2.9 | 140 |
| 18 | Response of tree biomass and wood litter to disturbance in a Central Amazon forest. <i>Oecologia</i> , 2004 , 141, 596-611 | 2.9 | 102 |
| 17 | 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 |
| 16 | Uso de banda dendrom^ trica na defini^ 🛭 🗗 de padr^ 🖺 s de crescimento individual em di^ Enetro de ^ Evores da bacia do rio Cuieiras. <i>Acta Amazonica</i> , 2003 , 33, 67-84 | 0.8 | 6 |
| 15 | 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 |
| 14 | 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 |
| 13 | Respiration from coarse wood litter in central Amazon forests. <i>Biogeochemistry</i> , 2001 , 52, 115-131 | 3.8 | 130 |
| 12 | Carbon sink for a century. <i>Nature</i> , 2001 , 410, 429 | 50.4 | 98 |
| 11 | MEASURING NET PRIMARY PRODUCTION IN FORESTS: CONCEPTS AND FIELD METHODS 2001 , 11, 356 | -370 | 624 |
| 10 | NET PRIMARY PRODUCTION IN TROPICAL FORESTS: AN EVALUATION AND SYNTHESIS OF EXISTING FIELD DATA 2001 , 11, 371-384 | | 441 |
| 9 | 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 |
| 8 | Parameter estimation for a global model of terrestrial biogeochemical cycling by an iterative method. <i>Ecological Modelling</i> , 2001 , 139, 137-175 | 3 | 15 |
| 7 | Decomposition and carbon cycling of dead trees in tropical forests of the central Amazon. <i>Oecologia</i> , 2000 , 122, 380-388 | 2.9 | 308 |

| 6 | An age-old problem. <i>Trends in Plant Science</i> , 1999 , 4, 385-386 | 13.1 | 4 |
|---|--|------|-----|
| 5 | Relationship between soils and Amazon forest biomass: a landscape-scale study. <i>Forest Ecology and Management</i> , 1999 , 118, 127-138 | 3.9 | 284 |
| 4 | Ancient trees in Amazonia. <i>Nature</i> , 1998 , 391, 135-136 | 50.4 | 195 |
| 3 | Stem respiration and growth in a central Amazon rainforest. <i>Trees - Structure and Function</i> ,1 | 2.6 | 0 |
| 2 | Rapid remote sensing assessment of impacts from Hurricane Maria on forests of Puerto Rico | | 3 |
| 1 | Rapid remote sensing assessment of impacts from Hurricane Maria on forests of Puerto Rico | | 8 |