

Long-term decline of the Amazon carbon sink

Nature

519, 344-348

DOI: [10.1038/nature14283](https://doi.org/10.1038/nature14283)

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Experiment aims to steep rainforest in carbon dioxide. <i>Nature</i> , 2013, 496, 405-406. | 13.7 | 17 |
| 2 | Relationship between structural diversity and carbon stocks in humid and sub-humid tropical forest of Mexico. <i>Ecoscience</i> , 2015, 22, 125-131. | 0.6 | 8 |
| 3 | A joint individual-based model coupling growth and mortality reveals that tree vigor is a key component of tropical forest dynamics. <i>Ecology and Evolution</i> , 2015, 5, 2457-2465. | 0.8 | 22 |
| 4 | Recent Amazon climate as background for possible ongoing and future changes of Amazon humid forests. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1384-1399. | 1.9 | 107 |
| 5 | Climate change-associated tree mortality increases without decreasing water availability. <i>Ecology Letters</i> , 2015, 18, 1207-1215. | 3.0 | 73 |
| 6 | The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10723-10776. | 1.9 | 218 |
| 7 | Are functional traits a good predictor of global change impacts on tree species abundance dynamics in a subtropical forest?. <i>Ecology Letters</i> , 2015, 18, 1181-1189. | 3.0 | 76 |
| 8 | Identifying climatic drivers of tropical forest dynamics. <i>Biogeosciences</i> , 2015, 12, 5583-5596. | 1.3 | 24 |
| 9 | Green Leaf Volatile Emissions during High Temperature and Drought Stress in a Central Amazon Rainforest. <i>Plants</i> , 2015, 4, 678-690. | 1.6 | 41 |
| 10 | The hunt for the world's missing carbon. <i>Nature</i> , 2015, 523, 20-22. | 13.7 | 20 |
| 11 | Controls on terrestrial carbon feedbacks by productivity versus turnover in the CMIP5 Earth System Models. <i>Biogeosciences</i> , 2015, 12, 5211-5228. | 1.3 | 81 |
| 12 | Importance of vegetation dynamics for future terrestrial carbon cycling. <i>Environmental Research Letters</i> , 2015, 10, 054019. | 2.2 | 60 |
| 13 | 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 |
| 14 | Pervasive drought legacies in forest ecosystems and their implications for carbon cycle models. <i>Science</i> , 2015, 349, 528-532. | 6.0 | 836 |
| 16 | Signs of saturation in the tropical carbon sink. <i>Nature</i> , 2015, 519, 295-296. | 13.7 | 13 |
| 17 | The potential of secondary forests. <i>Science</i> , 2015, 348, 642-643. | 6.0 | 41 |
| 18 | Combustion Pathways of Biofuel Model Compounds. <i>Advances in Physical Organic Chemistry</i> , 2015, 49, 103-187. | 0.5 | 10 |
| 19 | Range increase of a Neotropical orchid bee under future scenarios of climate change. <i>Journal of Insect Conservation</i> , 2015, 19, 901-910. | 0.8 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 20 | Senescence: Is It Universal or Not?. Trends in Plant Science, 2015, 20, 713-720. | 4.3 | 32 |
| 21 | Lianas reduce carbon accumulation and storage in tropical forests. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13267-13271. | 3.3 | 147 |
| 22 | On underestimation of global vulnerability to tree mortality and forest die-off from hotter drought in the Anthropocene. Ecosphere, 2015, 6, 1-55. | 1.0 | 1,739 |
| 23 | Increasing human dominance of tropical forests. Science, 2015, 349, 827-832. | 6.0 | 551 |
| 24 | Measurement of Forest Above-Ground Biomass Using Active and Passive Remote Sensing at Large (Subnational to Global) Scales. Current Forestry Reports, 2015, 1, 162-177. | 3.4 | 34 |
| 25 | State of the Climate in 2014. Bulletin of the American Meteorological Society, 2015, 96, ES1-ES32. | 1.7 | 78 |
| 26 | Using repeated small-footprint LiDAR acquisitions to infer spatial and temporal variations of a high-biomass Neotropical forest. Remote Sensing of Environment, 2015, 169, 93-101. | 4.6 | 92 |
| 27 | Climate change, biodiversity, ticks and tick-borne diseases: The butterfly effect. International Journal for Parasitology: Parasites and Wildlife, 2015, 4, 452-461. | 0.6 | 182 |
| 29 | Vulnerability of Commercial Tree Species to Water Stress in Logged Forests of the Guiana Shield. Forests, 2016, 7, 105. | 0.9 | 14 |
| 30 | Hotspots of gross emissions from the land use sector: patterns, uncertainties, and leading emission sources for the period 2000–2005 in the tropics. Biogeosciences, 2016, 13, 4253-4269. | 1.3 | 29 |
| 31 | Multi-gas and multi-source comparisons of six land use emission datasets and AFOLU estimates in the Fifth Assessment Report, for the tropics for 2000–2005. Biogeosciences, 2016, 13, 5799-5819. | 1.3 | 8 |
| 32 | Mangrove Forest Dynamics Using Very High Spatial Resolution Optical Remote Sensing. , 2016, , 269-295. | | 2 |
| 33 | Amazon Forest Ecosystem Responses to Elevated Atmospheric CO2 and Alterations in Nutrient Availability: Filling the Gaps with Model-Experiment Integration. Frontiers in Earth Science, 2016, 4, . | 0.8 | 20 |
| 34 | Climate seasonality limits leaf carbon assimilation and wood productivity in tropical forests. Biogeosciences, 2016, 13, 2537-2562. | 1.3 | 108 |
| 35 | Small global effect on terrestrial net primary production due to increased fossil fuel aerosol emissions from East Asia since the turn of the century. Geophysical Research Letters, 2016, 43, 8060-8067. | 1.5 | 20 |
| 36 | Trade-Offs between Growth Rate, Tree Size and Lifespan of Mountain Pine (Pinus montana) in the Swiss National Park. PLoS ONE, 2016, 11, e0150402. | 1.1 | 52 |
| 37 | Evaluation of geostatistical techniques to estimate the spatial distribution of aboveground biomass in the Amazon rainforest using high-resolution remote sensing data. Acta Amazonica, 2016, 46, 151-160. | 0.3 | 18 |
| 38 | Weak Environmental Controls of Tropical Forest Canopy Height in the Guiana Shield. Remote Sensing, 2016, 8, 747. | 1.8 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 39 | Conservative species drive biomass productivity in tropical dry forests. <i>Journal of Ecology</i> , 2016, 104, 817-827. | 1.9 | 180 |
| 40 | Regional atmospheric CO ₂ inversion reveals seasonal and geographic differences in Amazon net biome exchange. <i>Global Change Biology</i> , 2016, 22, 3427-3443. | 4.2 | 45 |
| 41 | Drivers of aboveground wood production in a lowland tropical forest of West Africa: teasing apart the roles of tree density, tree diversity, soil phosphorus, and historical logging. <i>Ecology and Evolution</i> , 2016, 6, 4004-4017. | 0.8 | 34 |
| 42 | Carbon dynamics of mature and regrowth tropical forests derived from a pantropical database (TropF-CO ₂). <i>Global Change Biology</i> , 2016, 22, 1690-1709. | 4.2 | 85 |
| 43 | Modeling plant-water interactions: an ecohydrological overview from the cell to the global scale. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 327-368. | 2.8 | 163 |
| 44 | Extreme seasonal droughts and floods in Amazonia: causes, trends and impacts. <i>International Journal of Climatology</i> , 2016, 36, 1033-1050. | 1.5 | 479 |
| 45 | Bioclimatic envelope models predict a decrease in tropical forest carbon stocks with climate change in Madagascar. <i>Journal of Ecology</i> , 2016, 104, 703-715. | 1.9 | 63 |
| 46 | Estimation of above-ground biomass in forest stands from regression on their basal area and height. <i>Forestry Studies</i> , 2016, 64, 70-92. | 0.1 | 7 |
| 47 | Patterns of tree mortality in a temperate deciduous forest derived from a large forest dynamics plot. <i>Ecosphere</i> , 2016, 7, e01595. | 1.0 | 32 |
| 48 | Changes in interannual climate sensitivities of terrestrial carbon fluxes during the 21st century predicted by CMIP5 Earth System Models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 903-918. | 1.3 | 17 |
| 49 | CO ₂ and CO emission rates from three forest fire controlled experiments in Western Amazonia. <i>Atmospheric Environment</i> , 2016, 135, 73-83. | 1.9 | 22 |
| 50 | Model-data synthesis for the next generation of forest free-air CO ₂ enrichment (FACE) experiments. <i>New Phytologist</i> , 2016, 209, 17-28. | 3.5 | 178 |
| 51 | Tropical soil nutrient distributions determined by biotic and hillslope processes. <i>Biogeochemistry</i> , 2016, 127, 273-289. | 1.7 | 64 |
| 52 | Soil charcoal as long-term pyrogenic carbon storage in Amazonian seasonal forests. <i>Global Change Biology</i> , 2016, 22, 190-197. | 4.2 | 16 |
| 53 | When a Tree Dies in the Forest: Scaling Climate-Driven Tree Mortality to Ecosystem Water and Carbon Fluxes. <i>Ecosystems</i> , 2016, 19, 1133-1147. | 1.6 | 73 |
| 54 | Global NPP and straw bioenergy trends for 2000-2014. <i>Biomass and Bioenergy</i> , 2016, 90, 230-236. | 2.9 | 22 |
| 55 | Mortality and recruitment of fire-tolerant eucalypts as influenced by wildfire severity and recent prescribed fire. <i>Forest Ecology and Management</i> , 2016, 380, 107-117. | 1.4 | 86 |
| 56 | There's no place like home: seedling mortality contributes to the habitat specialisation of tree species across Amazonia. <i>Ecology Letters</i> , 2016, 19, 1256-1266. | 3.0 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 57 | Limited acclimation in leaf anatomy to experimental drought in tropical rainforest trees. <i>Tree Physiology</i> , 2016, 36, 1550-1561. | 1.4 | 27 |
| 58 | Climate change-associated trends in net biomass change are age dependent in western boreal forests of Canada. <i>Ecology Letters</i> , 2016, 19, 1150-1158. | 3.0 | 89 |
| 59 | The world's biggest gamble. <i>Earth's Future</i> , 2016, 4, 465-470. | 2.4 | 70 |
| 60 | Land-use and climate change risks in the Amazon and the need of a novel sustainable development paradigm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10759-10768. | 3.3 | 543 |
| 61 | Global change effects on humid tropical forests: Evidence for biogeochemical and biodiversity shifts at an ecosystem scale. <i>Reviews of Geophysics</i> , 2016, 54, 523-610. | 9.0 | 73 |
| 62 | Recent Changes in Amazon Forest Biomass and Dynamics. <i>Ecological Studies</i> , 2016, , 191-224. | 0.4 | 11 |
| 63 | The Amazon Carbon Balance: An Evaluation of Methods and Results. <i>Ecological Studies</i> , 2016, , 79-100. | 0.4 | 5 |
| 64 | The broad footprint of climate change from genes to biomes to people. <i>Science</i> , 2016, 354, . | 6.0 | 883 |
| 65 | Evolution of wet-day and dry-day frequency in the western Amazon basin: Relationship with atmospheric circulation and impacts on vegetation. <i>Water Resources Research</i> , 2016, 52, 8546-8560. | 1.7 | 52 |
| 66 | Equatorial Pacific forcing of western Amazonian precipitation during Heinrich Stadial 1. <i>Scientific Reports</i> , 2016, 6, 35866. | 1.6 | 13 |
| 67 | Recent pause in the growth rate of atmospheric CO ₂ due to enhanced terrestrial carbon uptake. <i>Nature Communications</i> , 2016, 7, 13428. | 5.8 | 305 |
| 68 | Long-term observations of cloud condensation nuclei in the Amazon rain forest – Part 1: Aerosol size distribution, hygroscopicity, and new model parametrizations for CCN prediction. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15709-15740. | 1.9 | 105 |
| 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. | 1.9 | 31 |
| 70 | Terrestrial water flux responses to global warming in tropical rainforest areas. <i>Earth's Future</i> , 2016, 4, 210-224. | 2.4 | 14 |
| 71 | Variation in stem mortality rates determines patterns of above-ground biomass in Amazonian forests: implications for dynamic global vegetation models. <i>Global Change Biology</i> , 2016, 22, 3996-4013. | 4.2 | 116 |
| 72 | Old-growth Neotropical forests are shifting in species and trait composition. <i>Ecological Monographs</i> , 2016, 86, 228-243. | 2.4 | 61 |
| 73 | Amazon forest response to repeated droughts. <i>Global Biogeochemical Cycles</i> , 2016, 30, 964-982. | 1.9 | 201 |
| 74 | Large-scale impact of climate change vs. land-use change on future biome shifts in Latin America. <i>Global Change Biology</i> , 2016, 22, 3689-3701. | 4.2 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 75 | Dispersal limitation induces long-term biomass collapse in overhunted Amazonian forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 892-897. | 3.3 | 277 |
| 76 | Does climate directly influence <scp>NPP</scp> globally?. <i>Global Change Biology</i> , 2016, 22, 12-24. | 4.2 | 98 |
| 77 | Evidence for arrested succession in a lianaâ€infeested Amazonian forest. <i>Journal of Ecology</i> , 2016, 104, 149-159. | 1.9 | 71 |
| 78 | Biomass resilience of Neotropical secondary forests. <i>Nature</i> , 2016, 530, 211-214. | 13.7 | 763 |
| 79 | Liana canopy cover mapped throughout a tropical forest with high-fidelity imaging spectroscopy. <i>Remote Sensing of Environment</i> , 2016, 176, 98-106. | 4.6 | 32 |
| 80 | Toward accounting for ecoclimate teleconnections: intra- and inter-continental consequences of altered energy balance after vegetation change. <i>Landscape Ecology</i> , 2016, 31, 181-194. | 1.9 | 53 |
| 81 | The response of tropical rainforests to droughtâ€™lessons from recent research and future prospects. <i>Annals of Forest Science</i> , 2016, 73, 27-44. | 0.8 | 123 |
| 82 | Resilience to drought in a dry forest: Insights from demographic rates. <i>Forest Ecology and Management</i> , 2017, 389, 167-175. | 1.4 | 29 |
| 83 | A matter of tree longevity. <i>Science</i> , 2017, 355, 130-131. | 6.0 | 158 |
| 84 | Novel tropical forests: response to global change. <i>New Phytologist</i> , 2017, 213, 988-992. | 3.5 | 6 |
| 85 | Quantifying uncertainty about forest recovery 32-years after selective logging in Suriname. <i>Forest Ecology and Management</i> , 2017, 391, 246-255. | 1.4 | 25 |
| 86 | Carbon uptake by mature Amazon forests has mitigated Amazon nationsâ€™ carbon emissions. <i>Carbon Balance and Management</i> , 2017, 12, 1. | 1.4 | 98 |
| 87 | Maximising Synergy among Tropical Plant Systematists, Ecologists, and Evolutionary Biologists. <i>Trends in Ecology and Evolution</i> , 2017, 32, 258-267. | 4.2 | 52 |
| 88 | A revised hydrological model for the Central Amazon: The importance of emergent canopy trees in the forest water budget. <i>Agricultural and Forest Meteorology</i> , 2017, 239, 47-57. | 1.9 | 60 |
| 89 | Carbon concentration declines with decay class in tropical forest woody debris. <i>Forest Ecology and Management</i> , 2017, 391, 75-85. | 1.4 | 16 |
| 90 | Trees, forests and water: Cool insights for a hot world. <i>Global Environmental Change</i> , 2017, 43, 51-61. | 3.6 | 660 |
| 91 | The prospect of global environmental relativities after an Anthropocene tipping point. <i>Forest Policy and Economics</i> , 2017, 79, 36-49. | 1.5 | 10 |
| 92 | A Sustainable Bioeconomy. , 2017, , . | | 31 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 93 | The effects of teleconnections on carbon fluxes of global terrestrial ecosystems. <i>Geophysical Research Letters</i> , 2017, 44, 3209-3218. | 1.5 | 58 |
| 94 | Temperature and rainfall interact to control carbon cycling in tropical forests. <i>Ecology Letters</i> , 2017, 20, 779-788. | 3.0 | 107 |
| 95 | Climate mitigation policy as a system solution: addressing the risk cost of carbon. <i>Journal of Sustainable Finance and Investment</i> , 2017, 7, 233-274. | 4.1 | 9 |
| 96 | Exploring uncertainty of Amazon dieback in a perturbed parameter Earth system ensemble. <i>Global Change Biology</i> , 2017, 23, 5032-5044. | 4.2 | 20 |
| 97 | Decomposition rates of coarse woody debris in undisturbed Amazonian seasonally flooded and unflooded forests in the Rio Negro-Rio Branco Basin in Roraima, Brazil. <i>Forest Ecology and Management</i> , 2017, 397, 1-9. | 1.4 | 17 |
| 98 | Non-linear interactions between CO_2 radiative and physiological effects on Amazonian evapotranspiration in an Earth system model. <i>Climate Dynamics</i> , 2017, 49, 2471-2490. | 1.7 | 12 |
| 99 | Tropical forest restoration: Fast resilience of plant biomass contrasts with slow recovery of stable soil C stocks. <i>Functional Ecology</i> , 2017, 31, 2344-2355. | 1.7 | 39 |
| 100 | Assessing climate change impacts, benefits of mitigation, and uncertainties on major global forest regions under multiple socioeconomic and emissions scenarios. <i>Environmental Research Letters</i> , 2017, 12, 045001. | 2.2 | 38 |
| 101 | Unravelling ecosystem functions at the Amazonia-Cerrado transition: II. Carbon stocks and CO_2 soil efflux in cerradão forest undergoing ecological succession. <i>Acta Oecologica</i> , 2017, 82, 23-31. | 0.5 | 7 |
| 102 | Large-scale carbon stock assessment of woody vegetation in tropical dry deciduous forest of Sathanur reserve forest, Eastern Ghats, India. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 187. | 1.3 | 35 |
| 103 | Adapting REDD+ policy to sink conditions. <i>Forest Policy and Economics</i> , 2017, 80, 160-166. | 1.5 | 8 |
| 104 | Global bounds on nitrogen gas emissions from humid tropical forests. <i>Geophysical Research Letters</i> , 2017, 44, 2502-2510. | 1.5 | 12 |
| 105 | Temperate forest dynamics and carbon storage: a 26-year case study from Orange Kloof Forest, Cape Peninsula, South Africa. <i>Southern Forests</i> , 2017, 79, 297-303. | 0.2 | 0 |
| 106 | Intra-annual stem increment patterns and climatic responses in five tree species from an Ecuadorian tropical dry forest. <i>Trees - Structure and Function</i> , 2017, 31, 1057-1067. | 0.9 | 16 |
| 107 | Finnish forest policy in the era of bioeconomy: A pathway to sustainability?. <i>Forest Policy and Economics</i> , 2017, 77, 6-15. | 1.5 | 90 |
| 108 | Continuous soil carbon storage of old permanent pastures in Amazonia. <i>Global Change Biology</i> , 2017, 23, 3382-3392. | 4.2 | 20 |
| 109 | Monoterpene thermometer of tropical forest atmosphere response to climate warming. <i>Plant, Cell and Environment</i> , 2017, 40, 441-452. | 2.8 | 52 |
| 110 | Leaf chlorophyll content as a proxy for leaf photosynthetic capacity. <i>Global Change Biology</i> , 2017, 23, 3513-3524. | 4.2 | 404 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 111 | Response of the Amazon rainforest to late Pleistocene climate variability. <i>Earth and Planetary Science Letters</i> , 2017, 479, 50-59. | 1.8 | 50 |
| 112 | Structure and allometry in tropical forests of Chocó, Colombia. <i>Forest Ecology and Management</i> , 2017, 405, 309-318. | 1.4 | 16 |
| 113 | Resistance of tropical seedlings to drought is mediated by neighbourhood diversity. <i>Nature Ecology and Evolution</i> , 2017, 1, 1643-1648. | 3.4 | 46 |
| 114 | Tropical forests are a net carbon source based on aboveground measurements of gain and loss. <i>Science</i> , 2017, 358, 230-234. | 6.0 | 539 |
| 115 | Contrasting carbon cycle responses of the tropical continents to the 2015–2016 El Niño. <i>Science</i> , 2017, 358, . | 6.0 | 307 |
| 116 | Shifting from a fertilization-dominated to a warming-dominated period. <i>Nature Ecology and Evolution</i> , 2017, 1, 1438-1445. | 3.4 | 167 |
| 117 | Biogeographic distributions of neotropical trees reflect their directly measured drought tolerances. <i>Scientific Reports</i> , 2017, 7, 8334. | 1.6 | 51 |
| 118 | Hydrologic resilience and Amazon productivity. <i>Nature Communications</i> , 2017, 8, 387. | 5.8 | 37 |
| 119 | Drought-induced mortality patterns and rapid biomass recovery in a terra firme forest in the Colombian Amazon. <i>Ecology</i> , 2017, 98, 2538-2546. | 1.5 | 52 |
| 120 | An individual-based forest model to jointly simulate carbon and tree diversity in Amazonia: description and applications. <i>Ecological Monographs</i> , 2017, 87, 632-664. | 2.4 | 40 |
| 121 | Does soil pyrogenic carbon determine plant functional traits in Amazon Basin forests?. <i>Plant Ecology</i> , 2017, 218, 1047-1062. | 0.7 | 5 |
| 122 | Mechanistic Processes Controlling Persistent Changes of Forest Canopy Structure After 2005 Amazon Drought. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 3378-3390. | 1.3 | 2 |
| 123 | Nationally Representative Plot Network Reveals Contrasting Drivers of Net Biomass Change in Secondary and Old-Growth Forests. <i>Ecosystems</i> , 2017, 20, 944-959. | 1.6 | 32 |
| 124 | Tree size thresholds produce biased estimates of forest biomass dynamics. <i>Forest Ecology and Management</i> , 2017, 400, 468-474. | 1.4 | 32 |
| 125 | Tree demography dominates long-term growth trends inferred from tree rings. <i>Global Change Biology</i> , 2017, 23, 474-484. | 4.2 | 49 |
| 126 | Partitioning controls on Amazon forest photosynthesis between environmental and biotic factors at hourly to interannual timescales. <i>Global Change Biology</i> , 2017, 23, 1240-1257. | 4.2 | 102 |
| 127 | Does biomass growth increase in the largest trees? Flaws, fallacies and alternative analyses. <i>Functional Ecology</i> , 2017, 31, 568-581. | 1.7 | 48 |
| 128 | Stability in a changing world – palm community dynamics in the hyperdiverse western Amazon over 17 years. <i>Global Change Biology</i> , 2017, 23, 1232-1239. | 4.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 129 | Long-term carbon sink in Borneo's forests halted by drought and vulnerable to edge effects. <i>Nature Communications</i> , 2017, 8, 1966. | 5.8 | 116 |
| 130 | Analysing Latin American and Caribbean forest vulnerability from socio-economic factors. <i>Journal of Integrative Environmental Sciences</i> , 2017, 14, 109-130. | 1.0 | 6 |
| 131 | Tropical Dry Deciduous Forest: Research Trends and Emerging Features. , 2017, , . | | 15 |
| 132 | Productivity and Nutrient Cycling. , 2017, , 111-147. | | 0 |
| 133 | Mapping and linking supply- and demand-side measures in climate-smart agriculture. A review. <i>Agronomy for Sustainable Development</i> , 2017, 37, 1. | 2.2 | 55 |
| 136 | Reframing for Sustainability: Exploring Transformative Power of Benefit Sharing. <i>Sustainability</i> , 2017, 9, 1486. | 1.6 | 7 |
| 137 | Trailblazing the Carbon Cycle of Tropical Forests from Puerto Rico. <i>Forests</i> , 2017, 8, 101. | 0.9 | 12 |
| 138 | Attribution of Disturbance Agents to Forest Change Using a Landsat Time Series in Tropical Seasonal Forests in the Bago Mountains, Myanmar. <i>Forests</i> , 2017, 8, 218. | 0.9 | 37 |
| 139 | Carbon Emissions from Deforestation and Degradation in a Forest Reserve in Venezuela between 1990 and 2015. <i>Forests</i> , 2017, 8, 291. | 0.9 | 9 |
| 140 | Reviews and syntheses: Field data to benchmark the carbon cycle models for tropical forests. <i>Biogeosciences</i> , 2017, 14, 4663-4690. | 1.3 | 27 |
| 141 | Height-diameter allometry and above ground biomass in tropical montane forests: Insights from the Albertine Rift in Africa. <i>PLoS ONE</i> , 2017, 12, e0179653. | 1.1 | 37 |
| 142 | Multidecadal stability in tropical rain forest structure and dynamics across an old-growth landscape. <i>PLoS ONE</i> , 2017, 12, e0183819. | 1.1 | 7 |
| 143 | Climate change-associated trends in biomass dynamics are consistent across soil drainage classes in western boreal forests of Canada. <i>Forest Ecosystems</i> , 2017, 4, . | 1.3 | 4 |
| 144 | Economically important species dominate aboveground carbon storage in forests of southwestern Amazonia. <i>Ecology and Society</i> , 2017, 22, . | 1.0 | 10 |
| 146 | Synergy between land use and climate change increases future fire risk in Amazon forests. <i>Earth System Dynamics</i> , 2017, 8, 1237-1246. | 2.7 | 71 |
| 147 | Carbon-nitrogen interactions in idealized simulations with JSBACH (version 3.10). <i>Geoscientific Model Development</i> , 2017, 10, 2009-2030. | 1.3 | 47 |
| 148 | Detecting early warning signals of tree mortality in boreal North America using multiscale satellite data. <i>Global Change Biology</i> , 2018, 24, 2284-2304. | 4.2 | 81 |
| 149 | Productivity Contribution of Paleozoic Woodlands to the Formation of Shale-Hosted Massive Sulfide Deposits in the Iberian Pyrite Belt (Tharsis, Spain). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1017-1040. | 1.3 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 150 | Research frontiers for improving our understanding of drought-induced tree and forest mortality. <i>New Phytologist</i> , 2018, 218, 15-28. | 3.5 | 334 |
| 151 | Interactions Between Land-Use Change and Climate-Carbon Cycle Feedbacks. <i>Current Climate Change Reports</i> , 2018, 4, 115-127. | 2.8 | 23 |
| 152 | Climate change impacts on boreal forest timber supply. <i>Forest Policy and Economics</i> , 2018, 92, 11-21. | 1.5 | 57 |
| 153 | Climate, crops, and forests: a pan-tropical analysis of household income generation. <i>Environment and Development Economics</i> , 2018, 23, 279-297. | 1.3 | 22 |
| 154 | Global effects of plant litter alterations on soil CO_2 to the atmosphere. <i>Global Change Biology</i> , 2018, 24, 3462-3471. | 4.2 | 73 |
| 155 | El Niño drought increased canopy turnover in Amazon forests. <i>New Phytologist</i> , 2018, 219, 959-971. | 3.5 | 65 |
| 156 | The importance of forest structure for carbon fluxes of the Amazon rainforest. <i>Environmental Research Letters</i> , 2018, 13, 054013. | 2.2 | 60 |
| 157 | Drivers and mechanisms of tree mortality in moist tropical forests. <i>New Phytologist</i> , 2018, 219, 851-869. | 3.5 | 341 |
| 158 | Drought stress and tree size determine stem CO_2 efflux in a tropical forest. <i>New Phytologist</i> , 2018, 218, 1393-1405. | 3.5 | 26 |
| 159 | Recent progress in understanding climate thresholds. <i>Progress in Physical Geography</i> , 2018, 42, 24-60. | 1.4 | 18 |
| 160 | Amazon drought and forest response: Largely reduced forest photosynthesis but slightly increased canopy greenness during the extreme drought of 2015/2016. <i>Global Change Biology</i> , 2018, 24, 1919-1934. | 4.2 | 145 |
| 162 | Field methods for sampling tree height for tropical forest biomass estimation. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1179-1189. | 2.2 | 78 |
| 163 | Causes of reduced leaf-level photosynthesis during strong El Niño drought in a Central Amazon forest. <i>Global Change Biology</i> , 2018, 24, 4266-4279. | 4.2 | 65 |
| 164 | Climate and fragmentation affect forest structure at the southern border of Amazonia. <i>Plant Ecology and Diversity</i> , 2018, 11, 13-25. | 1.0 | 12 |
| 165 | Tropical forest dynamics in unstable terrain: a case study from New Guinea. <i>Journal of Tropical Ecology</i> , 2018, 34, 157-175. | 0.5 | 12 |
| 166 | Land use change and El Niño-Southern Oscillation drive decadal carbon balance shifts in Southeast Asia. <i>Nature Communications</i> , 2018, 9, 1154. | 5.8 | 28 |
| 167 | Brazil's Amazonian forest carbon: the key to Southern Amazonia's significance for global climate. <i>Regional Environmental Change</i> , 2018, 18, 47-61. | 1.4 | 46 |
| 168 | Seeing the forest not for the carbon: why concentrating on land-use-induced carbon stock changes of soils in Brazil can be climate-unfriendly. <i>Regional Environmental Change</i> , 2018, 18, 63-75. | 1.4 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 169 | Biodiversity as a solution to mitigate climate change impacts on the functioning of forest ecosystems. <i>Biological Reviews</i> , 2018, 93, 439-456. | 4.7 | 137 |
| 170 | Ecosystem state shifts during long-term development of an Amazonian peatland. <i>Global Change Biology</i> , 2018, 24, 738-757. | 4.2 | 26 |
| 171 | Disentangling competitive vs. climatic drivers of tropical forest mortality. <i>Journal of Ecology</i> , 2018, 106, 1165-1179. | 1.9 | 33 |
| 172 | High tolerance of tropical sapling growth and gas exchange to moderate warming. <i>Functional Ecology</i> , 2018, 32, 599-611. | 1.7 | 43 |
| 173 | Are Brazil nut populations threatened by fruit harvest?. <i>Biotropica</i> , 2018, 50, 50-59. | 0.8 | 13 |
| 174 | Seasonal variability of leaf water capacity and wettability under the influence of pollution in different city zones. <i>Atmospheric Pollution Research</i> , 2018, 9, 455-463. | 1.8 | 22 |
| 175 | Assessment of MODIS-derived indices (2001–2013) to drought across Taiwan's forests. <i>International Journal of Biometeorology</i> , 2018, 62, 809-822. | 1.3 | 17 |
| 176 | Contrasting the microbiomes from forest rhizosphere and deeper bulk soil from an Amazon rainforest reserve. <i>Gene</i> , 2018, 642, 389-397. | 1.0 | 46 |
| 177 | Predicting Chronic Climate-Driven Disturbances and Their Mitigation. <i>Trends in Ecology and Evolution</i> , 2018, 33, 15-27. | 4.2 | 77 |
| 178 | Major shifts in Amazon wildlife populations from recent intensification of floods and drought. <i>Conservation Biology</i> , 2018, 32, 333-344. | 2.4 | 48 |
| 179 | Soil fertility and species traits, but not diversity, drive productivity and biomass stocks in a Guyanese tropical rainforest. <i>Functional Ecology</i> , 2018, 32, 461-474. | 1.7 | 90 |
| 180 | Contrasting patterns of the extreme drought episodes of 2005, 2010 and 2015 in the Amazon Basin. <i>International Journal of Climatology</i> , 2018, 38, 1096-1104. | 1.5 | 112 |
| 181 | Maintaining carbon stocks in extractive reserves in Brazilian Amazonia. <i>Desenvolvimento E Meio Ambiente</i> , 0, 48, . | 0.0 | 7 |
| 182 | Deforestation and forest fires transforming the reality of the Chico Mendes Extractive Reserve. <i>Desenvolvimento E Meio Ambiente</i> , 0, 48, . | 0.0 | 6 |
| 183 | A generic pixel-to-point comparison for simulated large-scale ecosystem properties and ground-based observations: an example from the Amazon region. <i>Geoscientific Model Development</i> , 2018, 11, 5203-5215. | 1.3 | 6 |
| 184 | The evolving role of <i>Bertholletia excelsa</i> in Amazonia: contributing to local livelihoods and forest conservation. <i>Desenvolvimento E Meio Ambiente</i> , 0, 48, . | 0.0 | 8 |
| 185 | Mapping the Leaf Economic Spectrum across West African Tropical Forests Using UAV-Acquired Hyperspectral Imagery. <i>Remote Sensing</i> , 2018, 10, 1532. | 1.8 | 22 |
| 186 | Tropical forest leaves may darken in response to climate change. <i>Nature Ecology and Evolution</i> , 2018, 2, 1918-1924. | 3.4 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 187 | Limiting the high impacts of Amazon forest dieback with no-regrets science and policy action. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11671-11679. | 3.3 | 38 |
| 188 | Temporal declines in tree longevity associated with faster lifetime growth rates in boreal forests. Environmental Research Letters, 2018, 13, 125003. | 2.2 | 21 |
| 189 | Gas seeps and gas hydrates in the Amazon deep-sea fan. Geo-Marine Letters, 2018, 38, 429-438. | 0.5 | 18 |
| 190 | Neotropical Forests from their Emergence to the Future Scenario of Climatic Changes. , 0, , . | | 3 |
| 191 | Individual tree crown delineation in a highly diverse tropical forest using very high resolution satellite images. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 145, 362-377. | 4.9 | 91 |
| 192 | Spatio-temporal patterns of thermal anomalies and drought over tropical forests driven by recent extreme climatic anomalies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170300. | 1.8 | 24 |
| 193 | Vulnerability of Amazonian forests to repeated droughts. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170411. | 1.8 | 80 |
| 194 | The Terrestrial Carbon Sink. Annual Review of Environment and Resources, 2018, 43, 219-243. | 5.6 | 200 |
| 195 | Soil-Plant-Atmosphere Interactions. Developments in Soil Science, 2018, , 29-60. | 0.5 | 4 |
| 196 | Effects of endogenous and exogenous processes on aboveground biomass stocks and dynamics in Andean forests. Plant Ecology, 2018, 219, 1481-1492. | 0.7 | 24 |
| 197 | Spatiotemporal Rainfall Trends in the Brazilian Legal Amazon between the Years 1998 and 2015. Water (Switzerland), 2018, 10, 1220. | 1.2 | 26 |
| 198 | A new version of the CABLE land surface model (Subversion revision r4601) incorporating land use and land cover change, woody vegetation demography, and a novel optimisation-based approach to plant coordination of photosynthesis. Geoscientific Model Development, 2018, 11, 2995-3026. | 1.3 | 114 |
| 199 | A Large Committed Long-Term Sink of Carbon due to Vegetation Dynamics. Earth's Future, 2018, 6, 1413-1432. | 2.4 | 24 |
| 200 | Second rate or a second chance? Assessing biomass and biodiversity recovery in regenerating Amazonian forests. Global Change Biology, 2018, 24, 5680-5694. | 4.2 | 107 |
| 201 | Lecciones ecológicas de la historia amazónica: impacto diferencial del uso del suelo en las estructuras y biomásas de áreas de bosques secundarios en Napo, Ecuador. Bosque, 2018, 39, 37-48. | 0.1 | 3 |
| 202 | The ecology of peace: preparing Colombia for new political and planetary climates. Frontiers in Ecology and the Environment, 2018, 16, 525-531. | 1.9 | 41 |
| 203 | Total OH Reactivity Changes Over the Amazon Rainforest During an El Niño Event. Frontiers in Forests and Global Change, 2018, 1, . | 1.0 | 14 |
| 204 | Evaluating changes of biomass in global vegetation models: the role of turnover fluctuations and ENSO events. Environmental Research Letters, 2018, 13, 075002. | 2.2 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 205 | Ecosystem heterogeneity and diversity mitigate Amazon forest resilience to frequent extreme droughts. <i>New Phytologist</i> , 2018, 219, 914-931. | 3.5 | 64 |
| 206 | Savanna turning into forest: concerted vegetation change at the ecotone between the Amazon and Cerrado biomes. <i>Revista Brasileira De Botanica</i> , 2018, 41, 611-619. | 0.5 | 19 |
| 207 | The enigma of the Amazonian carbon balance. <i>Environmental Research Letters</i> , 2018, 13, 061002. | 2.2 | 5 |
| 208 | Changes in the Shadow: The Shifting Role of Shaded Leaves in Global Carbon and Water Cycles Under Climate Change. <i>Geophysical Research Letters</i> , 2018, 45, 5052-5061. | 1.5 | 57 |
| 209 | Canopy area of large trees explains aboveground biomass variations across neotropical forest landscapes. <i>Biogeosciences</i> , 2018, 15, 3377-3390. | 1.3 | 32 |
| 210 | Potential strong contribution of future anthropogenic land-use and land-cover change to the terrestrial carbon cycle. <i>Environmental Research Letters</i> , 2018, 13, 064023. | 2.2 | 35 |
| 211 | Catastrophic Climate Change and Forest Tipping Points: Blind Spots in International Politics and Policy. <i>Global Policy</i> , 2018, 9, 513-524. | 1.0 | 16 |
| 212 | Environmental drivers of forest structure and stem turnover across Venezuelan tropical forests. <i>PLoS ONE</i> , 2018, 13, e0198489. | 1.1 | 22 |
| 213 | Surrounding species diversity improves subtropical seedlings' carbon dynamics. <i>Ecology and Evolution</i> , 2018, 8, 7055-7067. | 0.8 | 5 |
| 214 | Soil Moisture Stress as a Major Driver of Carbon Cycle Uncertainty. <i>Geophysical Research Letters</i> , 2018, 45, 6495-6503. | 1.5 | 119 |
| 215 | Low Phosphorus Availability Decreases Susceptibility of Tropical Primary Productivity to Droughts. <i>Geophysical Research Letters</i> , 2018, 45, 8231-8240. | 1.5 | 21 |
| 216 | Dry-season decline in tree sapflux is correlated with leaf turgor loss point in a tropical rainforest. <i>Functional Ecology</i> , 2018, 32, 2285-2297. | 1.7 | 22 |
| 217 | The tropical forest carbon cycle and climate change. <i>Nature</i> , 2018, 559, 527-534. | 13.7 | 425 |
| 218 | Reconstructing long term annual deforestation dynamics in Pará and Mato Grosso using the Landsat archive. <i>Remote Sensing of Environment</i> , 2018, 216, 497-513. | 4.6 | 27 |
| 219 | Fine-scale processes shape ecosystem service provision by an Amazonian hyperdominant tree species. <i>Scientific Reports</i> , 2018, 8, 11690. | 1.6 | 8 |
| 220 | Increasing Humidity Threatens Tropical Rainforests. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, . | 1.1 | 13 |
| 221 | High Mortality and Low Net Change in Live Woody Biomass of Karst Evergreen and Deciduous Broad-Leaved Mixed Forest in Southwestern China. <i>Forests</i> , 2018, 9, 263. | 0.9 | 15 |
| 222 | Bytes and boots to understand the future of the Amazon forest. <i>New Phytologist</i> , 2018, 219, 845-847. | 3.5 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 223 | Deriving pattern from complexity in the processes underlying tropical forest drought impacts. <i>New Phytologist</i> , 2018, 219, 841-844. | 3.5 | 11 |
| 224 | Idiosyncratic soil-tree species associations and their relationships with drought in a monodominant Amazon forest. <i>Acta Oecologica</i> , 2018, 91, 127-136. | 0.5 | 5 |
| 225 | Assessing timber volume recovery after disturbance in tropical forests – A new modelling framework. <i>Ecological Modelling</i> , 2018, 384, 353-369. | 1.2 | 24 |
| 226 | Key drivers of ecosystem recovery after disturbance in a neotropical forest. <i>Forest Ecosystems</i> , 2018, 5, . | 1.3 | 57 |
| 227 | Tree carbon allocation explains forest drought kill and recovery patterns. <i>Ecology Letters</i> , 2018, 21, 1552-1560. | 3.0 | 217 |
| 228 | Responses of the Carbon Storage and Sequestration Potential of Forest Vegetation to Temperature Increases in Yunnan Province, SW China. <i>Forests</i> , 2018, 9, 227. | 0.9 | 12 |
| 229 | Climate sensitive size-dependent survival in tropical trees. <i>Nature Ecology and Evolution</i> , 2018, 2, 1436-1442. | 3.4 | 41 |
| 230 | Carbon exchange in an Amazon forest: from hours to years. <i>Biogeosciences</i> , 2018, 15, 4833-4848. | 1.3 | 20 |
| 231 | New Insights From Pre-Columbian Land Use and Fire Management in Amazonian Dark Earth Forests. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, . | 1.1 | 41 |
| 232 | Dendroecological Approach to Assessing Carbon Accumulation Dynamics in Two <i>Pinus</i> Species from Northern Mexico. <i>Tree-Ring Research</i> , 2018, 74, 196-209. | 0.4 | 8 |
| 233 | Post-drought decline of the Amazon carbon sink. <i>Nature Communications</i> , 2018, 9, 3172. | 5.8 | 95 |
| 234 | The Effects of Tropical Vegetation on Rainfall. <i>Annual Review of Environment and Resources</i> , 2018, 43, 193-218. | 5.6 | 87 |
| 235 | Tree radial growth is projected to decline in South Asian moist forest trees under climate change. <i>Global and Planetary Change</i> , 2018, 170, 106-119. | 1.6 | 37 |
| 236 | Measuring resilience and assessing vulnerability of terrestrial ecosystems to climate change in South America. <i>PLoS ONE</i> , 2018, 13, e0194654. | 1.1 | 39 |
| 237 | Crown damage and the mortality of tropical trees. <i>New Phytologist</i> , 2019, 221, 169-179. | 3.5 | 30 |
| 238 | Photosynthetic heat tolerance of shade and sun leaves of three tropical tree species. <i>Photosynthesis Research</i> , 2019, 141, 119-130. | 1.6 | 46 |
| 239 | Determinants of Soil Bacterial and Fungal Community Composition Toward Carbon-Use Efficiency Across Primary and Secondary Forests in a Costa Rican Conservation Area. <i>Microbial Ecology</i> , 2019, 77, 148-167. | 1.4 | 38 |
| 240 | Shifting species and functional diversity due to abrupt changes in water availability in tropical dry forests. <i>Journal of Ecology</i> , 2019, 107, 253-264. | 1.9 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 241 | Divergent temporal trends of net biomass change in western Canadian boreal forests. <i>Journal of Ecology</i> , 2019, 107, 69-78. | 1.9 | 17 |
| 242 | Proglacial freshwaters are significant and previously unrecognized sinks of atmospheric CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17690-17695. | 3.3 | 40 |
| 243 | Rainfall drives variation in rates of change in intrinsic water use efficiency of tropical forests. <i>Nature Communications</i> , 2019, 10, 3661. | 5.8 | 17 |
| 244 | Climate Change in the Tropics: Ecological and Evolutionary Responses at Low Latitudes. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2019, 50, 303-333. | 3.8 | 82 |
| 245 | Satellite-observed pantropical carbon dynamics. <i>Nature Plants</i> , 2019, 5, 944-951. | 4.7 | 141 |
| 246 | Amazon forest response to CO ₂ fertilization dependent on plant phosphorus acquisition. <i>Nature Geoscience</i> , 2019, 12, 736-741. | 5.4 | 177 |
| 247 | Seasonal and Inter-annual Variation of Evapotranspiration in Amazonia Based on Precipitation, River Discharge and Gravity Anomaly Data. <i>Frontiers in Earth Science</i> , 2019, 7, . | 0.8 | 8 |
| 248 | Estimating aboveground net biomass change for tropical and subtropical forests: Refinement of IPCC default rates using forest plot data. <i>Global Change Biology</i> , 2019, 25, 3609-3624. | 4.2 | 78 |
| 249 | Modeling the impact of liana infestation on the demography and carbon cycle of tropical forests. <i>Global Change Biology</i> , 2019, 25, 3767-3780. | 4.2 | 33 |
| 250 | Temperature rising would slow down tropical forest dynamic in the Guiana Shield. <i>Scientific Reports</i> , 2019, 9, 10235. | 1.6 | 20 |
| 251 | Phenology and Seasonal Ecosystem Productivity in an Amazonian Floodplain Forest. <i>Remote Sensing</i> , 2019, 11, 1530. | 1.8 | 16 |
| 252 | The Forest Observation System, building a global reference dataset for remote sensing of forest biomass. <i>Scientific Data</i> , 2019, 6, 198. | 2.4 | 44 |
| 253 | Comment on "The global tree restoration potential". <i>Science</i> , 2019, 366, . | 6.0 | 55 |
| 254 | Degradation and forgone removals increase the carbon impact of intact forest loss by 626%. <i>Science Advances</i> , 2019, 5, eaax2546. | 4.7 | 87 |
| 255 | Proposing the solar-wind energy flux hypothesis as a driver of inter-annual variation in tropical tree reproductive effort. <i>American Journal of Botany</i> , 2019, 106, 1519-1525. | 0.8 | 3 |
| 256 | Diversity, distribution and dynamics of large trees across an old-growth lowland tropical rain forest landscape. <i>PLoS ONE</i> , 2019, 14, e0224896. | 1.1 | 17 |
| 257 | Different ways to die in a changing world: Consequences of climate change for tree species performance and survival through an ecophysiological perspective. <i>Ecology and Evolution</i> , 2019, 9, 11979-11999. | 0.8 | 57 |
| 258 | Drivers of subtropical forest dynamics: The role of functional traits, forest structure and soil variables. <i>Journal of Vegetation Science</i> , 2019, 30, 1164-1174. | 1.1 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 259 | The Effects of Phosphorus Cycle Dynamics on Carbon Sources and Sinks in the Amazon Region: A Modeling Study Using ELM v1. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3686-3698. | 1.3 | 29 |
| 260 | Interaction between extreme weather events and mega-dams increases tree mortality and alters functional status of Amazonian forests. <i>Journal of Applied Ecology</i> , 2019, 56, 2641-2651. | 1.9 | 13 |
| 261 | Allometric models to estimate tree height in northern Amazonian ecotone forests. <i>Acta Amazonica</i> , 2019, 49, 81-90. | 0.3 | 15 |
| 262 | Impacts of Fire on Forest Biomass Dynamics at the Southern Amazon Edge. <i>Environmental Conservation</i> , 2019, 46, 285-292. | 0.7 | 18 |
| 263 | Landscape patterns of primary production reveal agricultural benefits from forest conservation. <i>Perspectives in Ecology and Conservation</i> , 2019, 17, 136-145. | 1.0 | 8 |
| 264 | Tropical Ecosystems: Structure, Functions and Challenges in the Face of Global Change. , 2019, , . | | 1 |
| 265 | Energy business transformation & Earth system resilience: A metabolic approach. <i>Journal of Cleaner Production</i> , 2019, 215, 854-869. | 4.6 | 5 |
| 266 | The persistence of carbon in the African forest understory. <i>Nature Plants</i> , 2019, 5, 133-140. | 4.7 | 41 |
| 267 | Have Synergies Between Nitrogen Deposition and Atmospheric CO ₂ Driven the Recent Enhancement of the Terrestrial Carbon Sink?. <i>Global Biogeochemical Cycles</i> , 2019, 33, 163-180. | 1.9 | 37 |
| 268 | Differences in carbon stocks along an elevational gradient in tropical mountain forests of Colombia. <i>Biotropica</i> , 2019, 51, 490-499. | 0.8 | 22 |
| 269 | Symbiotic N fixation is sufficient to support net aboveground biomass accumulation in a humid tropical forest. <i>Scientific Reports</i> , 2019, 9, 7571. | 1.6 | 19 |
| 270 | Droughts, Wildfires, and Forest Carbon Cycling: A Pantropical Synthesis. <i>Annual Review of Earth and Planetary Sciences</i> , 2019, 47, 555-581. | 4.6 | 131 |
| 271 | Reducing Catastrophic Climate Risk by Revolutionizing the Amazon: Novel Pathways for Brazilian Diplomacy. <i>Contributions To Economics</i> , 2019, , 189-218. | 0.2 | 3 |
| 272 | Natural disturbance and soils drive diversity and dynamics of seasonal dipterocarp forest in Southern Thailand. <i>Journal of Tropical Ecology</i> , 2019, 35, 95-107. | 0.5 | 3 |
| 273 | Catastrophic Climate Risk and Brazilian Amazonian Politics and Policies: A New Research Agenda. <i>Global Environmental Politics</i> , 2019, 19, 93-103. | 1.7 | 26 |
| 274 | Differences in the soil microbial community and carbon-use efficiency following development of <i>Vochysia guatemalensis</i> tree plantations in unproductive pastures in Costa Rica. <i>Restoration Ecology</i> , 2019, 27, 1263-1273. | 1.4 | 9 |
| 275 | Limited capacity of tree growth to mitigate the global greenhouse effect under predicted warming. <i>Nature Communications</i> , 2019, 10, 2171. | 5.8 | 92 |
| 276 | Across Date Species Detection Using Airborne Imaging Spectroscopy. <i>Remote Sensing</i> , 2019, 11, 789. | 1.8 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 277 | Hydraulic traits explain differential responses of Amazonian forests to the 2015 El Niño-induced drought. <i>New Phytologist</i> , 2019, 223, 1253-1266. | 3.5 | 58 |
| 278 | Opportunities and challenges for an Indonesian forest monitoring network. <i>Annals of Forest Science</i> , 2019, 76, 1. | 0.8 | 11 |
| 279 | Fire Responses to the 2010 and 2015/2016 Amazonian Droughts. <i>Frontiers in Earth Science</i> , 2019, 7, . | 0.8 | 46 |
| 280 | Amazonian rainforest tree mortality driven by climate and functional traits. <i>Nature Climate Change</i> , 2019, 9, 384-388. | 8.1 | 159 |
| 281 | The fate of Amazonia. <i>Nature Climate Change</i> , 2019, 9, 355-356. | 8.1 | 7 |
| 282 | Transcending the Learned Ignorance of Predatory Ontologies: A Research Agenda for an Ecofeminist-Informed Ecological Economics. <i>Sustainability</i> , 2019, 11, 1479. | 1.6 | 19 |
| 283 | Testing early warning metrics for drought-induced tree physiological stress and mortality. <i>Global Change Biology</i> , 2019, 25, 2459-2469. | 4.2 | 34 |
| 284 | Trends in tree growth and intrinsic water-use efficiency in the tropics under elevated CO ₂ and climate change. <i>Trees - Structure and Function</i> , 2019, 33, 623-640. | 0.9 | 41 |
| 285 | A 7000-year history of changing plant trait composition in an Amazonian landscape; the role of humans and climate. <i>Ecology Letters</i> , 2019, 22, 925-935. | 3.0 | 36 |
| 286 | Rate of forest recovery after fire exclusion on anthropogenic savannas in the Democratic Republic of Congo. <i>Biological Conservation</i> , 2019, 233, 118-130. | 1.9 | 12 |
| 287 | Contrasting controls on tree ring isotope variation for Amazon floodplain and terra firme trees. <i>Tree Physiology</i> , 2019, 39, 845-860. | 1.4 | 19 |
| 288 | Tropical tree height and crown allometries for the Barro Colorado Nature Monument, Panama: a comparison of alternative hierarchical models incorporating interspecific variation in relation to life history traits. <i>Biogeosciences</i> , 2019, 16, 847-862. | 1.3 | 34 |
| 289 | The Global Spatiotemporal Distribution of the Mid-Tropospheric CO ₂ Concentration and Analysis of the Controlling Factors. <i>Remote Sensing</i> , 2019, 11, 94. | 1.8 | 20 |
| 290 | Individual-Based Modeling of Amazon Forests Suggests That Climate Controls Productivity While Traits Control Demography. <i>Frontiers in Earth Science</i> , 2019, 7, . | 0.8 | 19 |
| 291 | Species-rich boreal forests grew more and suffered less mortality than species-poor forests under the environmental change of the past half-century. <i>Ecology Letters</i> , 2019, 22, 999-1008. | 3.0 | 39 |
| 292 | Relative contributions of biotic and abiotic factors to the spatial variation of litter stock in a mature subtropical forest. <i>Journal of Plant Ecology</i> , 2019, 12, 769-780. | 1.2 | 10 |
| 293 | Prominence of the tropics in the recent rise of global nitrogen pollution. <i>Nature Communications</i> , 2019, 10, 1437. | 5.8 | 32 |
| 294 | Five decades of northern land carbon uptake revealed by the interhemispheric CO ₂ gradient. <i>Nature</i> , 2019, 568, 221-225. | 13.7 | 124 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 295 | Tree mortality submodels drive simulated long-term forest dynamics: assessing 15 models from the stand to global scale. <i>Ecosphere</i> , 2019, 10, e02616. | 1.0 | 93 |
| 296 | Soil microbiomes associated with two dominant Costa Rican tree species, and implications for remediation: A case study from a Costa Rican conservation area. <i>Applied Soil Ecology</i> , 2019, 137, 139-153. | 2.1 | 16 |
| 297 | The importance and challenges of detecting changes in forest mortality rates. <i>Ecosphere</i> , 2019, 10, e02615. | 1.0 | 39 |
| 298 | Will Landscape Fire Increase in the Future? A Systems Approach to Climate, Fire, Fuel, and Human Drivers. <i>Current Pollution Reports</i> , 2019, 5, 9-24. | 3.1 | 22 |
| 299 | Role of forest regrowth in global carbon sink dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4382-4387. | 3.3 | 370 |
| 300 | Study of Optical Configurations for Multiple Enhancement of Microalgal Biomass Production. <i>Scientific Reports</i> , 2019, 9, 1723. | 1.6 | 9 |
| 301 | A Review of Regional and Global Gridded Forest Biomass Datasets. <i>Remote Sensing</i> , 2019, 11, 2744. | 1.8 | 44 |
| 302 | Pervasive decreases in living vegetation carbon turnover time across forest climate zones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24662-24667. | 3.3 | 52 |
| 303 | Tropical carbon sink accelerated by symbiotic dinitrogen fixation. <i>Nature Communications</i> , 2019, 10, 5637. | 5.8 | 33 |
| 304 | Regeneration of <i>Metrosideros polymorpha</i> forests in Hawaii after landscape-level canopy dieback. <i>Journal of Vegetation Science</i> , 2019, 30, 146-155. | 1.1 | 13 |
| 305 | Greater focus on water pools may improve our ability to understand and anticipate drought-induced mortality in plants. <i>New Phytologist</i> , 2019, 223, 22-32. | 3.5 | 134 |
| 306 | Modeling regional drought-stress indices for beech forests in Mediterranean mountains based on tree-ring data. <i>Agricultural and Forest Meteorology</i> , 2019, 265, 110-120. | 1.9 | 30 |
| 307 | Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , 2019, 25, 39-56. | 4.2 | 265 |
| 308 | Warming trends in Patagonian subantarctic forest. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 76, 51-65. | 1.4 | 18 |
| 309 | Drivers of biomass recovery in a secondary forested landscape of West Africa. <i>Forest Ecology and Management</i> , 2019, 433, 325-331. | 1.4 | 39 |
| 310 | Multiple drivers of aboveground biomass in a human-modified landscape of the Caatinga dry forest. <i>Forest Ecology and Management</i> , 2019, 435, 57-65. | 1.4 | 58 |
| 311 | Modelling carbon sources and sinks in terrestrial vegetation. <i>New Phytologist</i> , 2019, 221, 652-668. | 3.5 | 163 |
| 312 | A machine learning approach to map tropical selective logging. <i>Remote Sensing of Environment</i> , 2019, 221, 569-582. | 4.6 | 46 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 313 | Modelling carbon stock and carbon sequestration ecosystem services for policy design: a comprehensive approach using a dynamic vegetation model. <i>Ecosystems and People</i> , 2019, 15, 42-60. | 1.3 | 12 |
| 314 | Species-specific growth resilience to drought in a mixed semi-deciduous tropical moist forest in South Asia. <i>Forest Ecology and Management</i> , 2019, 433, 487-496. | 1.4 | 36 |
| 315 | Effects of tree size heterogeneity on carbon sink in old forests. <i>Forest Ecology and Management</i> , 2019, 432, 637-648. | 1.4 | 15 |
| 316 | Contrasting North-South changes in Amazon wet-day and dry-day frequency and related atmospheric features (1981-2017). <i>Climate Dynamics</i> , 2019, 52, 5413-5430. | 1.7 | 119 |
| 317 | Assessing the Possible Impacts of a 4 °C or Higher Warming in Amazonia. , 2019, , 201-218. | | 10 |
| 318 | Effects of environmental filters on early establishment of cloud forest trees along elevation gradients: Implications for assisted migration. <i>Forest Ecology and Management</i> , 2019, 432, 427-435. | 1.4 | 35 |
| 319 | Scale dependency of conservation outcomes in a forest offsetting scheme. <i>Conservation Biology</i> , 2020, 34, 148-157. | 2.4 | 2 |
| 320 | Editorial: Fire in the environment. <i>Journal of Environmental Management</i> , 2020, 253, 109703. | 3.8 | 5 |
| 321 | A climate change vulnerability and adaptation assessment for Brazil's protected areas. <i>Conservation Biology</i> , 2020, 34, 427-437. | 2.4 | 30 |
| 322 | Interannual variation of terrestrial carbon cycle: Issues and perspectives. <i>Global Change Biology</i> , 2020, 26, 300-318. | 4.2 | 214 |
| 323 | Testing for changes in biomass dynamics in large-scale forest datasets. <i>Global Change Biology</i> , 2020, 26, 1485-1498. | 4.2 | 14 |
| 324 | Spatial variation in climate modifies effects of functional diversity on biomass dynamics in natural forests across Canada. <i>Global Ecology and Biogeography</i> , 2020, 29, 682-695. | 2.7 | 21 |
| 325 | Climate change and carbon sink: a bibliometric analysis. <i>Environmental Science and Pollution Research</i> , 2020, 27, 8740-8758. | 2.7 | 51 |
| 326 | Is there potential in elevational assisted migration for the endangered <i>Magnolia vovidesii</i> ? <i>Journal for Nature Conservation</i> , 2020, 53, 125782. | 0.8 | 8 |
| 327 | Sensitivity of primary production to precipitation across the United States. <i>Ecology Letters</i> , 2020, 23, 527-536. | 3.0 | 109 |
| 328 | Assessing the growth and climate sensitivity of secondary forests in highly deforested Amazonian landscapes. <i>Ecology</i> , 2020, 101, e02954. | 1.5 | 51 |
| 329 | Wood allocation trade-offs between fiber wall, fiber lumen, and axial parenchyma drive drought resistance in neotropical trees. <i>Plant, Cell and Environment</i> , 2020, 43, 965-980. | 2.8 | 56 |
| 330 | Disentangling the effects of environment and ontogeny on tree functional dimensions for congeneric species in tropical forests. <i>New Phytologist</i> , 2020, 226, 385-395. | 3.5 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 331 | Secondary forests offset less than 10% of deforestation-mediated carbon emissions in the Brazilian Amazon. <i>Global Change Biology</i> , 2020, 26, 7006-7020. | 4.2 | 40 |
| 332 | Implications of CMIP6 Projected Drying Trends for 21st Century Amazonian Drought Risk. <i>Earth's Future</i> , 2020, 8, e2020EF001608. | 2.4 | 43 |
| 333 | Empirical evidence for resilience of tropical forest photosynthesis in a warmer world. <i>Nature Plants</i> , 2020, 6, 1225-1230. | 4.7 | 64 |
| 334 | Plant responses to rising vapor pressure deficit. <i>New Phytologist</i> , 2020, 226, 1550-1566. | 3.5 | 814 |
| 335 | Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , 2020, 11, 5515. | 5.8 | 62 |
| 336 | Forest-linked livelihoods in a globalized world. <i>Nature Plants</i> , 2020, 6, 1400-1407. | 4.7 | 45 |
| 337 | Global Warming and Forests in the Anthropocene. , 2020, , 1-19. | | 0 |
| 338 | Knowledge Base for Forests in Cooling and Warming. , 2020, , 217-279. | | 0 |
| 340 | The new Brazilian gold rush: Is Amazonia at risk?. <i>Forest Policy and Economics</i> , 2020, 119, 102270. | 1.5 | 11 |
| 341 | Characterizing and Quantifying African Dust Transport and Deposition to South America: Implications for the Phosphorus Budget in the Amazon Basin. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006536. | 1.9 | 46 |
| 342 | Influence of Climate on Carbon Sequestration in Conifers Growing under Contrasting Hydro-Climatic Conditions. <i>Forests</i> , 2020, 11, 1134. | 0.9 | 5 |
| 343 | The positive contribution of iWUE to the resilience of Schrenk spruce (<i>Picea schrenkiana</i>) to extreme drought in the western Tianshan Mountains, China. <i>Acta Physiologiae Plantarum</i> , 2020, 42, 1. | 1.0 | 7 |
| 344 | Drivers of tropical soil invertebrate community composition and richness across tropical secondary forests using DNA metabarcoding. <i>Scientific Reports</i> , 2020, 10, 18429. | 1.6 | 5 |
| 345 | Canopy structure and forest understory conditions in a wet Amazonian forest—No change over the last 20 years. <i>Biotropica</i> , 2020, 52, 1121-1126. | 0.8 | 3 |
| 346 | Fusion of Multiple Gridded Biomass Datasets for Generating a Global Forest Aboveground Biomass Map. <i>Remote Sensing</i> , 2020, 12, 2559. | 1.8 | 21 |
| 347 | Forest carbon sink neutralized by pervasive growth-lifespan trade-offs. <i>Nature Communications</i> , 2020, 11, 4241. | 5.8 | 122 |
| 348 | Reducing Global Environmental Uncertainties in Reports of Tropical Forest Carbon Fluxes to REDD+ and the Paris Agreement Global Stocktake. <i>Remote Sensing</i> , 2020, 12, 2369. | 1.8 | 8 |
| 349 | Recent Amplified Global Gross Primary Productivity Due to Temperature Increase Is Offset by Reduced Productivity Due to Water Constraints. <i>AGU Advances</i> , 2020, 1, e2020AV000180. | 2.3 | 50 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 350 | The carbon sink of tropical seasonal forests in southeastern Brazil can be under threat. <i>Science Advances</i> , 2020, 6, . | 4.7 | 20 |
| 351 | Large-scale DNA-based survey of frogs in Amazonia suggests a vast underestimation of species richness and endemism. <i>Journal of Biogeography</i> , 2020, 47, 1781-1791. | 1.4 | 60 |
| 352 | Fine-root dynamics vary with soil depth and precipitation in a low-nutrient tropical forest in the Central Amazonia. <i>Plant-Environment Interactions</i> , 2020, 1, 3-16. | 0.7 | 34 |
| 353 | Evidence of non-stationary relationships between climate and forest responses: Increased sensitivity to climate change in Iberian forests. <i>Global Change Biology</i> , 2020, 26, 5063-5076. | 4.2 | 56 |
| 354 | The impact of long dry periods on the aboveground biomass in a tropical forest: 20 years of monitoring. <i>Carbon Balance and Management</i> , 2020, 15, 12. | 1.4 | 11 |
| 355 | Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020, 368, 869-874. | 6.0 | 198 |
| 356 | Cell wall O-acetyl and methyl esterification patterns of leaves reflected in atmospheric emission signatures of acetic acid and methanol. <i>PLoS ONE</i> , 2020, 15, e0227591. | 1.1 | 8 |
| 357 | Precipitation-drainage cycles lead to hot moments in soil carbon dioxide dynamics in a Neotropical wet forest. <i>Global Change Biology</i> , 2020, 26, 5303-5319. | 4.2 | 11 |
| 358 | Pervasive shifts in forest dynamics in a changing world. <i>Science</i> , 2020, 368, . | 6.0 | 576 |
| 359 | 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. | 4.2 | 20 |
| 360 | Drought generates large, long-term changes in tree and liana regeneration in a monodominant Amazon forest. <i>Plant Ecology</i> , 2020, 221, 733-747. | 0.7 | 10 |
| 361 | Temporal trade-off between gymnosperm resistance and resilience increases forest sensitivity to extreme drought. <i>Nature Ecology and Evolution</i> , 2020, 4, 1075-1083. | 3.4 | 134 |
| 362 | Accelerated terrestrial ecosystem carbon turnover and its drivers. <i>Global Change Biology</i> , 2020, 26, 5052-5062. | 4.2 | 42 |
| 363 | 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. | 1.3 | 82 |
| 364 | Pantropical geography of lightning-caused disturbance and its implications for tropical forests. <i>Global Change Biology</i> , 2020, 26, 5017-5026. | 4.2 | 20 |
| 365 | Policy forum: Shifting cultivation and agroforestry in the Amazon: Premises for REDD+. <i>Forest Policy and Economics</i> , 2020, 118, 102217. | 1.5 | 32 |
| 366 | Validation of demographic equilibrium theory against tree-size distributions and biomass density in Amazonia. <i>Biogeosciences</i> , 2020, 17, 1013-1032. | 1.3 | 8 |
| 367 | Regime shifts occur disproportionately faster in larger ecosystems. <i>Nature Communications</i> , 2020, 11, 1175. | 5.8 | 49 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 368 | Climatic and edaphic controls over tropical forest diversity and vegetation carbon storage. <i>Scientific Reports</i> , 2020, 10, 5066. | 1.6 | 55 |
| 369 | A global perspective on the climate-driven growth synchrony of neighbouring trees. <i>Global Ecology and Biogeography</i> , 2020, 29, 1114-1125. | 2.7 | 19 |
| 370 | Competition influences tree growth, but not mortality, across environmental gradients in Amazonia and tropical Africa. <i>Ecology</i> , 2020, 101, e03052. | 1.5 | 57 |
| 371 | Asynchronous carbon sink saturation in African and Amazonian tropical forests. <i>Nature</i> , 2020, 579, 80-87. | 13.7 | 439 |
| 372 | Forest responses to simulated elevated CO ₂ under alternate hypotheses of size- and age-dependent mortality. <i>Global Change Biology</i> , 2020, 26, 5734-5753. | 4.2 | 18 |
| 373 | Causes and consequences of liana infestation in southern Amazonia. <i>Journal of Ecology</i> , 2020, 108, 2184-2197. | 1.9 | 13 |
| 374 | Drought resistance increases from the individual to the ecosystem level in highly diverse Neotropical rainforest: a meta-analysis of leaf, tree and ecosystem responses to drought. <i>Biogeosciences</i> , 2020, 17, 2621-2645. | 1.3 | 12 |
| 375 | Trees in a Warming World. , 2020, , 160-199. | | 0 |
| 376 | Nature-based Solutions for Resilient Ecosystems and Societies. <i>Disaster Resilience and Green Growth</i> , 2020, , . | 0.2 | 16 |
| 377 | Environmental Controls on Carbon and Water Fluxes in an Old-growth Tropical Dry Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005666. | 1.3 | 16 |
| 378 | Guidelines for including bamboos in tropical ecosystem monitoring. <i>Biotropica</i> , 2020, 52, 427-443. | 0.8 | 11 |
| 379 | Carbon Dynamics in a Human-Modified Tropical Forest: A Case Study Using Multi-Temporal LiDAR Data. <i>Remote Sensing</i> , 2020, 12, 430. | 1.8 | 15 |
| 380 | Soil properties explain tree growth and mortality, but not biomass, across phosphorus-depleted tropical forests. <i>Scientific Reports</i> , 2020, 10, 2302. | 1.6 | 74 |
| 381 | Variations in soil chemical and physical properties explain basin-wide Amazon forest soil carbon concentrations. <i>Soil</i> , 2020, 6, 53-88. | 2.2 | 36 |
| 382 | Palms and trees resist extreme drought in Amazon forests with shallow water tables. <i>Journal of Ecology</i> , 2020, 108, 2070-2082. | 1.9 | 27 |
| 383 | 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. | 1.3 | 23 |
| 384 | Determinants of soil organic carbon sequestration and its contribution to ecosystem carbon sinks of planted forests. <i>Global Change Biology</i> , 2020, 26, 3163-3173. | 4.2 | 39 |
| 385 | Recent divergence in the contributions of tropical and boreal forests to the terrestrial carbon sink. <i>Nature Ecology and Evolution</i> , 2020, 4, 202-209. | 3.4 | 93 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 386 | Buildings as a global carbon sink. <i>Nature Sustainability</i> , 2020, 3, 269-276. | 11.5 | 419 |
| 387 | Climate change and ecosystems: threats, opportunities and solutions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190104. | 1.8 | 333 |
| 388 | Tropical forests did not recover from the strong 2015–2016 El Niño event. <i>Science Advances</i> , 2020, 6, eaay4603. | 4.7 | 127 |
| 389 | Forest dynamics and carbon storage under climate change in a subtropical mountainous region in central China. <i>Ecosphere</i> , 2020, 11, e03072. | 1.0 | 8 |
| 390 | Leaf isoprene and monoterpene emission distribution across hyperdominant tree genera in the Amazon basin. <i>Phytochemistry</i> , 2020, 175, 112366. | 1.4 | 21 |
| 391 | Multidecadal Changes in Wet Season Precipitation Totals Over the Eastern Amazon. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087478. | 1.5 | 14 |
| 392 | Birds in fragmented Amazonian rainforest: Lessons from 40 years at the Biological Dynamics of Forest Fragments Project. <i>Condor</i> , 2020, 122, . | 0.7 | 32 |
| 393 | Size- and age-dependent increases in tree stem carbon concentration: implications for forest carbon stock estimations. <i>Journal of Plant Ecology</i> , 2020, 13, 233-240. | 1.2 | 12 |
| 394 | The Thermal Tolerances, Distributions, and Performances of Tropical Montane Tree Species. <i>Frontiers in Forests and Global Change</i> , 2020, 3, . | 1.0 | 45 |
| 395 | Carbon Balance under Organic Amendments in the Wheat-Maize Cropping Systems of Sloppy Upland Soil. <i>Sustainability</i> , 2020, 12, 2747. | 1.6 | 5 |
| 396 | Fire Effects on Understory Forest Regeneration in Southern Amazonia. <i>Frontiers in Forests and Global Change</i> , 2020, 3, . | 1.0 | 23 |
| 397 | OCO-2 Solar-Induced Chlorophyll Fluorescence Variability across Ecoregions of the Amazon Basin and the Extreme Drought Effects of El Niño (2015–2016). <i>Remote Sensing</i> , 2020, 12, 1202. | 1.8 | 19 |
| 398 | Drought effects on carbon dynamics of trees in a secondary Atlantic Forest. <i>Forest Ecology and Management</i> , 2020, 465, 118097. | 1.4 | 13 |
| 399 | Building a socio-ecological monitoring platform for the comprehensive management of tropical dry forests. <i>Plants People Planet</i> , 2021, 3, 238-248. | 1.6 | 11 |
| 400 | Determining ecosystem functioning in Brazilian biomes through foliar carbon and nitrogen concentrations and stable isotope ratios. <i>Biogeochemistry</i> , 2021, 154, 405-423. | 1.7 | 8 |
| 401 | Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO ₂ . <i>New Phytologist</i> , 2021, 229, 2413-2445. | 3.5 | 286 |
| 402 | Expanding tropical forest monitoring into Dry Forests: The DRYFLOR protocol for permanent plots. <i>Plants People Planet</i> , 2021, 3, 295-300. | 1.6 | 12 |
| 403 | From plots to policy: How to ensure long-term forest plot data supports environmental management in intact tropical forest landscapes. <i>Plants People Planet</i> , 2021, 3, 229-237. | 1.6 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 404 | Reduced tree density and basal area in Andean forests are associated with bamboo dominance. <i>Forest Ecology and Management</i> , 2021, 480, 118648. | 1.4 | 13 |
| 405 | Weak phylogenetic and climatic signals in plant heat tolerance. <i>Journal of Biogeography</i> , 2021, 48, 91-100. | 1.4 | 22 |
| 406 | The other side of droughts: wet extremes and topography as buffers of negative drought effects in an Amazonian forest. <i>New Phytologist</i> , 2021, 229, 1995-2006. | 3.5 | 46 |
| 407 | Negative trait-based association between abundance of nitrogen-fixing trees and long-term tropical forest biomass accumulation. <i>Journal of Ecology</i> , 2021, 109, 966-974. | 1.9 | 1 |
| 408 | Changes in Biomass Turnover Times in Tropical Forests and Their Environmental Drivers From 2001 to 2012. <i>Earth's Future</i> , 2021, 9, . | 2.4 | 6 |
| 409 | ForestGEO: Understanding forest diversity and dynamics through a global observatory network. <i>Biological Conservation</i> , 2021, 253, 108907. | 1.9 | 122 |
| 410 | Long-term change in the avifauna of undisturbed Amazonian rainforest: ground-foraging birds disappear and the baseline shifts. <i>Ecology Letters</i> , 2021, 24, 186-195. | 3.0 | 65 |
| 411 | Ecological legacies of past human activities in Amazonian forests. <i>New Phytologist</i> , 2021, 229, 2492-2496. | 3.5 | 30 |
| 412 | Integrating terrestrial laser scanning with functional-structural plant models to investigate ecological and evolutionary processes of forest communities. <i>Annals of Botany</i> , 2021, 128, 663-684. | 1.4 | 9 |
| 413 | Carbon flux and forest dynamics: Increased deadwood decomposition in tropical rainforest tree-fall canopy gaps. <i>Global Change Biology</i> , 2021, 27, 1601-1613. | 4.2 | 22 |
| 414 | Coarse woody debris are buffering mortality-induced carbon losses to the atmosphere in tropical forests. <i>Environmental Research Letters</i> , 2021, 16, 011006. | 2.2 | 12 |
| 416 | Large-scale collective action to avoid an Amazon tipping point - key actors and interventions. <i>Current Research in Environmental Sustainability</i> , 2021, 3, 100048. | 1.7 | 13 |
| 417 | Responses of Forest Carbon Cycle to Drought and Elevated CO ₂ . <i>Atmosphere</i> , 2021, 12, 212. | 1.0 | 5 |
| 418 | Climate and soil mediate the effects of liana density on forest dynamics. <i>Biotropica</i> , 2021, 53, 509-519. | 0.8 | 0 |
| 419 | Regional CO ₂ fluxes from 2010 to 2015 inferred from GOSAT XCO ₂ retrievals using a new version of the Global Carbon Assimilation System. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1963-1985. | 1.9 | 23 |
| 420 | Leaf Trait Plasticity Alters Competitive Ability and Functioning of Simulated Tropical Trees in Response to Elevated Carbon Dioxide. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006807. | 1.9 | 6 |
| 421 | Habitat Quality Differentiation and Consequences for Ecosystem Service Provision of an Amazonian Hyperdominant Tree Species. <i>Frontiers in Plant Science</i> , 2021, 12, 621064. | 1.7 | 7 |
| 422 | Satellite Observations of the Tropical Terrestrial Carbon Balance and Interactions With the Water Cycle During the 21st Century. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000711. | 9.0 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 423 | Representativeness of FLUXNET Sites Across Latin America. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006090. | 1.3 | 31 |
| 424 | Long-term (1990–2019) monitoring of forest cover changes in the humid tropics. <i>Science Advances</i> , 2021, 7, . | 4.7 | 162 |
| 425 | Linking plant hydraulics and the fast–slow continuum to understand resilience to drought in tropical ecosystems. <i>New Phytologist</i> , 2021, 230, 904-923. | 3.5 | 123 |
| 426 | Carbon and Beyond: The Biogeochemistry of Climate in a Rapidly Changing Amazon. <i>Frontiers in Forests and Global Change</i> , 2021, 4, . | 1.0 | 21 |
| 427 | Variation in aboveground biomass in forests and woodlands in Tanzania along gradients in environmental conditions and human use. <i>Environmental Research Letters</i> , 2021, 16, 044014. | 2.2 | 8 |
| 428 | Soil carbon stock estimations: methods and a case study of the Maranhão State, Brazil. <i>Environment, Development and Sustainability</i> , 2021, 23, 16410-16427. | 2.7 | 2 |
| 429 | Global patterns of forest autotrophic carbon fluxes. <i>Global Change Biology</i> , 2021, 27, 2840-2855. | 4.2 | 18 |
| 430 | Increasing aridity will not offset CO ₂ fertilization in fast-growing eucalypts with access to deep soil water. <i>Global Change Biology</i> , 2021, 27, 2970-2990. | 4.2 | 8 |
| 431 | Minimum temperature drives community leaf trait variation in secondary montane forests along a 3000-m elevation gradient in the tropical Andes. <i>Plant Ecology and Diversity</i> , 2021, 14, 47-63. | 1.0 | 12 |
| 432 | Our future in the Anthropocene biosphere. <i>Ambio</i> , 2021, 50, 834-869. | 2.8 | 275 |
| 433 | Modeled Response of South American Climate to Three Decades of Deforestation. <i>Journal of Climate</i> , 2021, 34, 2189-2203. | 1.2 | 13 |
| 434 | Tackling unresolved questions in forest ecology: The past and future role of simulation models. <i>Ecology and Evolution</i> , 2021, 11, 3746-3770. | 0.8 | 37 |
| 436 | Multi-decade tree mortality in temperate old-growth forests of Europe and North America: Non-equilibrial dynamics and species' individualistic response to disturbance. <i>Global Ecology and Biogeography</i> , 2021, 30, 1311-1333. | 2.7 | 7 |
| 437 | Rapid expansion of human impact on natural land in South America since 1985. <i>Science Advances</i> , 2021, 7, . | 4.7 | 71 |
| 438 | Evaluation of Future Impacts of Climate Change, CO ₂ , and Land Use Cover Change on Global Net Primary Productivity Using a Processed Model. <i>Land</i> , 2021, 10, 365. | 1.2 | 5 |
| 440 | Non-structural carbohydrates mediate seasonal water stress across Amazon forests. <i>Nature Communications</i> , 2021, 12, 2310. | 5.8 | 59 |
| 441 | Carbon loss from forest degradation exceeds that from deforestation in the Brazilian Amazon. <i>Nature Climate Change</i> , 2021, 11, 442-448. | 8.1 | 166 |
| 442 | Variations of carbon allocation and turnover time across tropical forests. <i>Global Ecology and Biogeography</i> , 2021, 30, 1271-1285. | 2.7 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 444 | Mature Andean forests as globally important carbon sinks and future carbon refuges. <i>Nature Communications</i> , 2021, 12, 2138. | 5.8 | 26 |
| 445 | The frequency and severity of past droughts shape the drought sensitivity of juniper trees on the Tibetan plateau. <i>Forest Ecology and Management</i> , 2021, 486, 118968. | 1.4 | 19 |
| 446 | Amazon tree dominance across forest strata. <i>Nature Ecology and Evolution</i> , 2021, 5, 757-767. | 3.4 | 27 |
| 447 | Impact of a tropical forest blowdown on aboveground carbon balance. <i>Scientific Reports</i> , 2021, 11, 11279. | 1.6 | 4 |
| 448 | Importance of hydraulic strategy trade-offs in structuring response of canopy trees to extreme drought in central Amazon. <i>Oecologia</i> , 2021, 197, 13-24. | 0.9 | 13 |
| 449 | Resistance of African tropical forests to an extreme climate anomaly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 37 |
| 450 | Rapid functional shifts across high latitude forests over the last 65 years. <i>Global Change Biology</i> , 2021, 27, 3846-3858. | 4.2 | 8 |
| 451 | The value of climate responses of individual trees to detect areas of climate-change refugia, a tree-ring study in the Brazilian seasonally dry tropical forests. <i>Forest Ecology and Management</i> , 2021, 488, 118971. | 1.4 | 8 |
| 452 | Climate change and elevated CO ₂ favor forest over savanna under different future scenarios in South Asia. <i>Biogeosciences</i> , 2021, 18, 2957-2979. | 1.3 | 14 |
| 453 | Earth System Models Are Not Capturing Present-Day Tropical Forest Carbon Dynamics. <i>Earth's Future</i> , 2021, 9, e2020EF001874. | 2.4 | 22 |
| 454 | Hydraulic architecture explains species moisture dependency but not mortality rates across a tropical rainfall gradient. <i>Biotropica</i> , 2021, 53, 1213-1225. | 0.8 | 6 |
| 455 | Variation in trunk taper of buttressed trees within and among five lowland tropical forests. <i>Biotropica</i> , 2021, 53, 1442-1453. | 0.8 | 8 |
| 456 | Comparative carbon footprint analysis of residents of wooden and non-wooden houses in Finland. <i>Environmental Research Letters</i> , 2021, 16, 074006. | 2.2 | 8 |
| 457 | Climate and large-sized trees, but not diversity, drive above-ground biomass in subtropical forests. <i>Forest Ecology and Management</i> , 2021, 490, 119126. | 1.4 | 39 |
| 458 | Robust Amazon precipitation projections in climate models that capture realistic land-atmosphere interactions. <i>Environmental Research Letters</i> , 2021, 16, 074002. | 2.2 | 21 |
| 459 | Environmental degradation of indigenous protected areas of the Amazon as a slow onset event. <i>Current Opinion in Environmental Sustainability</i> , 2021, 50, 260-271. | 3.1 | 8 |
| 460 | Natural forests in New Zealand are a large terrestrial carbon pool in a national state of equilibrium. <i>Forest Ecosystems</i> , 2021, 8, . | 1.3 | 13 |
| 461 | Deforestation and land use change mediate soil carbon changes in the eastern Brazilian Amazon. <i>Regional Environmental Change</i> , 2021, 21, 1. | 1.4 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 462 | Fire enhances forest degradation within forest edge zones in Africa. <i>Nature Geoscience</i> , 2021, 14, 479-483. | 5.4 | 26 |
| 463 | A Non-Gradient Model of Turbulent Gas Fluxes Over Land Surfaces. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034605. | 1.2 | 3 |
| 464 | Estimating Remaining Carbon Budgets Using Temperature Responses Informed by CMIP6. <i>Frontiers in Climate</i> , 2021, 3, . | 1.3 | 0 |
| 465 | Hydraulically-vulnerable trees survive on deep-water access during droughts in a tropical forest. <i>New Phytologist</i> , 2021, 231, 1798-1813. | 3.5 | 51 |
| 466 | Very Low Stocks and Inputs of Necromass in Wind-affected Tropical Forests. <i>Ecosystems</i> , 2022, 25, 488-503. | 1.6 | 5 |
| 467 | Forecasting deforestation in the Brazilian Amazon to prioritize conservation efforts. <i>Environmental Research Letters</i> , 2021, 16, 084034. | 2.2 | 13 |
| 468 | Amazonia as a carbon source linked to deforestation and climate change. <i>Nature</i> , 2021, 595, 388-393. | 13.7 | 371 |
| 469 | Detecting vulnerability of humid tropical forests to multiple stressors. <i>One Earth</i> , 2021, 4, 988-1003. | 3.6 | 41 |
| 470 | Satellite-based deforestation alerts with training and incentives for patrolling facilitate community monitoring in the Peruvian Amazon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 24 |
| 471 | Beyond Deforestation: Carbon Emissions From Land Grabbing and Forest Degradation in the Brazilian Amazon. <i>Frontiers in Forests and Global Change</i> , 2021, 4, . | 1.0 | 23 |
| 472 | Tracking the impacts of El Niño drought and fire in human-modified Amazonian forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 51 |
| 473 | Amazon forest fragmentation and edge effects temporarily favored understory and midstory tree growth. <i>Trees - Structure and Function</i> , 2021, 35, 2059-2068. | 0.9 | 3 |
| 474 | Drought effects on leaf fall, leaf flushing and stem growth in the Amazon forest: reconciling remote sensing data and field observations. <i>Biogeosciences</i> , 2021, 18, 4445-4472. | 1.3 | 14 |
| 475 | Experimental warming across a tropical forest canopy height gradient reveals minimal photosynthetic and respiratory acclimation. <i>Plant, Cell and Environment</i> , 2021, 44, 2879-2897. | 2.8 | 20 |
| 476 | Adoption of community monitoring improves common pool resource management across contexts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 31 |
| 477 | A New Field Protocol for Monitoring Forest Degradation. <i>Frontiers in Forests and Global Change</i> , 2021, 4, . | 1.0 | 3 |
| 478 | Effects of vegetation structure on avian biodiversity in a selectively logged hill dipterocarp forest. <i>Global Ecology and Conservation</i> , 2021, 28, e01660. | 1.0 | 13 |
| 479 | Taking the pulse of Earth's tropical forests using networks of highly distributed plots. <i>Biological Conservation</i> , 2021, 260, 108849. | 1.9 | 71 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 480 | High Temperature Acclimation of Leaf Gas Exchange, Photochemistry, and Metabolomic Profiles in <i>Populus trichocarpa</i> . ACS Earth and Space Chemistry, 2021, 5, 1813-1828. | 1.2 | 7 |
| 481 | Vegetation degradation in ENSO events: Drought assessment, soil use and vegetation evapotranspiration in the Western Brazilian Amazon. Remote Sensing Applications: Society and Environment, 2021, 23, 100531. | 0.8 | 4 |
| 482 | Recent changes in the atmospheric circulation patterns during the dry-to-wet transition season in south tropical South America (1979-2020): Impacts on precipitation and fire season. Journal of Climate, 2021, , 1-56. | 1.2 | 16 |
| 483 | Accurate Simulation of Both Sensitivity and Variability for Amazonian Photosynthesis: Is It Too Much to Ask?. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002555. | 1.3 | 3 |
| 484 | The impacts of a logging road on the soil microbial communities, and carbon and nitrogen components in a Northern Zone Costa Rican forest. Applied Soil Ecology, 2021, 164, 103937. | 2.1 | 4 |
| 485 | The Dynamic of Vegetation Growth with Regular Climate and Climatic Fluctuations in a Subtropical Mountainous Island, Taiwan. Remote Sensing, 2021, 13, 3298. | 1.8 | 6 |
| 486 | The CO ₂ record at the Amazon Tall Tower Observatory: A new opportunity to study processes on seasonal and inter-annual scales. Global Change Biology, 2022, 28, 588-611. | 4.2 | 8 |
| 487 | Drought Resilience Debt Drives NPP Decline in the Amazon Forest. Global Biogeochemical Cycles, 2021, 35, e2021GB007004. | 1.9 | 12 |
| 488 | Saturation of Global Terrestrial Carbon Sink Under a High Warming Scenario. Global Biogeochemical Cycles, 2021, 35, e2020GB006800. | 1.9 | 11 |
| 489 | Climate change research and action must look beyond 2100. Global Change Biology, 2022, 28, 349-361. | 4.2 | 63 |
| 490 | Tracking the Rates and Mechanisms of Canopy Damage and Recovery Following Hurricane Maria Using Multitemporal Lidar Data. Ecosystems, 2022, 25, 892-910. | 1.6 | 10 |
| 491 | Global sensitivities of forest carbon changes to environmental conditions. Global Change Biology, 2021, 27, 6467-6483. | 4.2 | 14 |
| 492 | Vegetation responses to climate extremes recorded by remotely sensed atmospheric formaldehyde. Global Change Biology, 2022, 28, 1809-1822. | 4.2 | 14 |
| 493 | Stability of tropical forest tree carbon-water relations in a rainfall exclusion treatment through shifts in effective water uptake depth. Global Change Biology, 2021, 27, 6454-6466. | 4.2 | 17 |
| 495 | Dynamics of tree mortality in subtropical montane forests of Northwestern Argentina. Forest Ecology and Management, 2021, 497, 119528. | 1.4 | 7 |
| 496 | Inconsistent changes in NPP and LAI determined from the parabolic LAI versus NPP relationship. Ecological Indicators, 2021, 131, 108134. | 2.6 | 24 |
| 497 | Impacts of selective logging on Amazon forest canopy structure and biomass with a LiDAR and photogrammetric survey sequence. Forest Ecology and Management, 2021, 500, 119648. | 1.4 | 13 |
| 498 | The First Complex Experiment on Determining Parameters of the Vertical Distribution of Methane in the Troposphere over Western Siberia from Solar Spectra Recorded with an IFS-125M FTIR Spectrometer and In Situ Aircraft Measurements. Atmospheric and Oceanic Optics, 2021, 34, 61-67. | 0.6 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 499 | Comparative models disentangle drivers of fruit production variability of an economically and ecologically important long-lived Amazonian tree. <i>Scientific Reports</i> , 2021, 11, 2563. | 1.6 | 9 |
| 500 | Large-scale variations in the dynamics of Amazon forest canopy gaps from airborne lidar data and opportunities for tree mortality estimates. <i>Scientific Reports</i> , 2021, 11, 1388. | 1.6 | 32 |
| 501 | Seasonally dry tropical forest temporal patterns are marked by floristic stability and structural changes. <i>Cernea</i> , 0, 27, . | 0.9 | 1 |
| 502 | A network to understand the changing socio-ecology of the southern African woodlands (SEOSAW): Challenges, benefits, and methods. <i>Plants People Planet</i> , 2021, 3, 249-267. | 1.6 | 13 |
| 503 | Tools Shape Paradigms of Plant-Environment Interactions. <i>Progress in Botany Fortschritte Der Botanik</i> , 2020, , 1-41. | 0.1 | 3 |
| 504 | Bioeconomy: The Path to Sustainability. , 2017, , 29-53. | | 1 |
| 505 | Close to a Tipping Point? The Amazon and the Challenge of Sustainable Development under Growing Climate Pressures. <i>Journal of Latin American Studies</i> , 2020, 52, 467-494. | 0.1 | 9 |
| 506 | Tropical carbon sinks are saturating at different times on different continents. <i>Nature</i> , 2020, 579, 38-39. | 13.7 | 4 |
| 507 | Divergent forest sensitivity to repeated extreme droughts. <i>Nature Climate Change</i> , 2020, 10, 1091-1095. | 8.1 | 160 |
| 508 | Global tree-ring analysis reveals rapid decrease in tropical tree longevity with temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33358-33364. | 3.3 | 46 |
| 509 | Collision Course: Development Pushes Amazonia Toward Its Tipping Point. <i>Environment</i> , 2021, 63, 15-25. | 0.8 | 13 |
| 510 | Aboveground carbon loss associated with the spread of ghost forests as sea levels rise. <i>Environmental Research Letters</i> , 2020, 15, 104028. | 2.2 | 39 |
| 511 | Above Ground Biomass and Carbon Stock of Lianas along the Watershed Area of Pergau, Jeli, Kelantan, Peninsular Malaysia. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 549, 012038. | 0.2 | 1 |
| 513 | Persistent collapse of biomass in Amazonian forest edges following deforestation leads to unaccounted carbon losses. <i>Science Advances</i> , 2020, 6, . | 4.7 | 82 |
| 514 | Net Carbon Emissions from Deforestation in Bolivia during 1990-2000 and 2000-2010: Results from a Carbon Bookkeeping Model. <i>PLoS ONE</i> , 2016, 11, e0151241. | 1.1 | 8 |
| 515 | The impact of tree age on biomass growth and carbon accumulation capacity: A retrospective analysis using tree ring data of three tropical tree species grown in natural forests of Suriname. <i>PLoS ONE</i> , 2017, 12, e0181187. | 1.1 | 67 |
| 516 | Thermal physiology of Amazonian lizards (Reptilia: Squamata). <i>PLoS ONE</i> , 2018, 13, e0192834. | 1.1 | 31 |
| 517 | Model-Based Estimation of Amazonian Forests Recovery Time after Drought and Fire Events. <i>Forests</i> , 2021, 12, 8. | 0.9 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 518 | Celebrating with the "beetle" man: Terry Erwin's 75th birthday. <i>ZooKeys</i> , 2015, 541, 1-40. | 0.5 | 4 |
| 520 | Understanding the uncertainty in global forest carbon turnover. <i>Biogeosciences</i> , 2020, 17, 3961-3989. | 1.3 | 45 |
| 524 | Can we set a global threshold age to define mature forests?. <i>PeerJ</i> , 2016, 4, e1595. | 0.9 | 10 |
| 525 | Climate Change on Plant Community Structure and Ecosystem Function. <i>Soil Biology</i> , 2021, , 321-334. | 0.6 | 1 |
| 526 | Shifts in Forest Species Composition and Abundance under Climate Change Scenarios in Southern Carpathian Romanian Temperate Forests. <i>Forests</i> , 2021, 12, 1434. | 0.9 | 15 |
| 527 | Litter inputs and phosphatase activity affect the temporal variability of organic phosphorus in a tropical forest soil in the Central Amazon. <i>Plant and Soil</i> , 2021, 469, 423-441. | 1.8 | 15 |
| 528 | Response of Amazonian forests to mid-Holocene drought: A model-data comparison. <i>Global Change Biology</i> , 2022, 28, 201-226. | 4.2 | 4 |
| 529 | Hydrological variability and long-term floristic-structural modifications in different habitats of a tropical semi-deciduous forest. <i>Journal of Forestry Research</i> , 2022, 33, 801-811. | 1.7 | 3 |
| 530 | Impact of merging of historical and future climate data sets on land carbon cycle projections for South America. <i>Climate Resilience and Sustainability</i> , 2022, 1, . | 0.9 | 0 |
| 531 | Is vulnerability segmentation at the leaf-stem transition a drought resistance mechanism? A theoretical test with a trait-based model for Neotropical canopy tree species. <i>Annals of Forest Science</i> , 2021, 78, . | 0.8 | 7 |
| 532 | CO2 sequestration by propagation of the fast-growing <i>Azolla</i> spp.. <i>Environmental Science and Pollution Research</i> , 2022, 29, 16912-16924. | 2.7 | 11 |
| 533 | Liana optical traits increase tropical forest albedo and reduce ecosystem productivity. <i>Global Change Biology</i> , 2022, 28, 227-244. | 4.2 | 10 |
| 534 | Impact of rising temperatures on the biomass of humid old-growth forests of the world. <i>Carbon Balance and Management</i> , 2021, 16, 31. | 1.4 | 8 |
| 535 | Tree biomass and carbon stock assessment of subtropical and temperate forests in the Central Himalaya, India. <i>Trees, Forests and People</i> , 2021, 6, 100147. | 0.8 | 16 |
| 536 | Forest Carbon Sequestration and Global Change. , 2016, , 39-86. | | 0 |
| 537 | Linking carbon and water cycles with forests. <i>Geography</i> , 2018, 103, 4-11. | 0.2 | 0 |
| 539 | Forest Carbon Sequestration and Global Change. , 2018, , 39-86. | | 0 |
| 540 | Effect of Organic Farming on Structural and Functional Diversity of Soil Microbiome: Benefits and Risks. , 2019, , 129-146. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 541 | Tropische WÄlder und Gebirge. , 2019, , 323-358. | | 0 |
| 542 | Aboveground Tree Carbon Stocks Along a Disturbance Gradient in Wet Tropical Forests of South Assam, India. , 2019, , 111-128. | | 2 |
| 544 | Spatial and temporal variation of forest net primary productivity components on contrasting soils in northwestern Amazon. Ecosphere, 2020, 11, e03233. | 1.0 | 4 |
| 545 | Predicting tropical tree mortality with leaf spectroscopy. Biotropica, 2021, 53, 581-595. | 0.8 | 3 |
| 546 | Adaptation opportunities for water security in Brazil. Sustentabilidade Em Debate, 2020, 11, 91-121. | 0.4 | 1 |
| 547 | A changing Amazon rainforest: Historical trends and future projections under post-Paris climate scenarios. Global and Planetary Change, 2020, 195, 103328. | 1.6 | 11 |
| 548 | Brazilian biomes distribution: Past and future. Palaeogeography, Palaeoclimatology, Palaeoecology, 2022, 585, 110717. | 1.0 | 15 |
| 549 | Climate Emergency. , 2020, , 169-197. | | 0 |
| 550 | Large-Scale Collective Action to Avoid an Amazon Tipping Point â€œ Key Actors and Interventions. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 551 | Ecosystem-Based Adaptation to Climate Change and Disaster Risk Reduction in Eastern Himalayan Forests of Arunachal Pradesh, Northeast India. Disaster Resilience and Green Growth, 2020, , 391-408. | 0.2 | 4 |
| 552 | Legal Amazon, sustainable use and environmental surveillance â€œsystemsâ€ historical legacy and future prospects. Brazilian Journal of Environmental Sciences (Online), 2021, 56, 49-64. | 0.1 | 0 |
| 553 | Estimating Amazon carbon stock using AI-based remote sensing. Communications of the ACM, 2020, 63, 46-48. | 3.3 | 3 |
| 554 | Effects of 38 years of wildfires on tree density in the Blue Mountains, Australia. Austral Ecology, 2021, 46, 20-30. | 0.7 | 0 |
| 555 | Seasonal and long-term variations in leaf area of Congolese rainforest. Remote Sensing of Environment, 2022, 268, 112762. | 4.6 | 10 |
| 556 | Changes in nutrient and fibre tissue contents in Nothofagus pumilio trees growing at site quality and crown class gradients. Forest Ecology and Management, 2022, 505, 119910. | 1.4 | 4 |
| 557 | The impact of tree loss on carbon management in West Africa. Carbon Management, 2021, 12, 623-633. | 1.2 | 7 |
| 558 | Annual Tropicalâ€Rainforest Productivity Through Two Decades: Complex Responses to Climatic Factors, [CO₂] and Storm Damage. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006557. | 1.3 | 2 |
| 559 | Remotely sensed assessment of increasing chronic and episodic drought effects on a Costa Rican tropical dry forest. Ecosphere, 2021, 12, e03824. | 1.0 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 560 | Network-based forecasting of climate phenomena. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 24 |
| 561 | Parameter uncertainty dominates C-cycle forecast errors over most of Brazil for the 21st century. Earth System Dynamics, 2021, 12, 1191-1237. | 2.7 | 8 |
| 562 | Tree-ring oxygen isotopes record a decrease in Amazon dry season rainfall over the past 40 years. Climate Dynamics, 2022, 59, 1401-1414. | 1.7 | 10 |
| 563 | Long-term growth trends of <i>Abies delavayi</i> and its physiological responses to a warming climate in the Cangshan Mountains, southwestern China. Forest Ecology and Management, 2022, 505, 119943. | 1.4 | 14 |
| 564 | State-led social and environmental policy failure in a Brazilian forest frontier: Sustainable Development Project in Anapu, Pará. Land Use Policy, 2022, 114, 105935. | 2.5 | 1 |
| 565 | Primary modes of tree mortality in southwestern Amazon forests. Trees, Forests and People, 2022, 7, 100180. | 0.8 | 0 |
| 566 | The other side of tropical forest drought: do shallow water table regions of Amazonia act as large-scale hydrological refugia from drought?. New Phytologist, 2023, 237, 714-733. | 3.5 | 42 |
| 567 | A Study on Sensitivities of Tropical Forest GPP Responding to the Characteristics of Drought—A Case Study in Xishuangbanna, China. Water (Switzerland), 2022, 14, 157. | 1.2 | 3 |
| 568 | The climate science for service partnership Brazil. Climate Resilience and Sustainability, 2022, 1, . | 0.9 | 1 |
| 569 | Aboveground forest biomass varies across continents, ecological zones and successional stages: refined IPCC default values for tropical and subtropical forests. Environmental Research Letters, 2022, 17, 014047. | 2.2 | 21 |
| 571 | Photosynthesis in action: The global view. , 2022, , 243-269. | | 0 |
| 572 | Plant phosphorus use and acquisition strategies in Amazonia. New Phytologist, 2022, 234, 1126-1143. | 3.5 | 40 |
| 573 | Fires Drive Long-Term Environmental Degradation in the Amazon Basin. Remote Sensing, 2022, 14, 338. | 1.8 | 14 |
| 574 | Diurnal and Seasonal Variations of Passive and Active Microwave Satellite Observations Over Tropical Forests. Journal of Geophysical Research G: Biogeosciences, 2022, 127, . | 1.3 | 5 |
| 575 | Trends in carbon sink along the Belt and Road in the future under high emission scenario. Atmospheric and Oceanic Science Letters, 2022, 15, 100149. | 0.5 | 1 |
| 576 | Light and thermal niches of ground-foraging Amazonian insectivorous birds. Ecology, 2022, 103, e3645. | 1.5 | 13 |
| 577 | Spatial-temporal dependence of the neighborhood interaction in regulating tree growth in a tropical rainforest. Forest Ecology and Management, 2022, 508, 120032. | 1.4 | 3 |
| 578 | A data-driven estimate of litterfall and forest carbon turnover and the drivers of their inter-annual variabilities in forest ecosystems across China. Science of the Total Environment, 2022, 821, 153341. | 3.9 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 579 | Responses of tree growth and biomass production to nutrient addition in a semi-deciduous tropical forest in <scp>Africa</scp>. <i>Ecology</i> , 2022, 103, e3659. | 1.5 | 16 |
| 580 | Climate change-related risks and adaptation potential in Central and South America during the 21st century. <i>Environmental Research Letters</i> , 2022, 17, 033002. | 2.2 | 27 |
| 581 | Terrestrial carbon sinks in China and around the world and their contribution to carbon neutrality. <i>Science China Life Sciences</i> , 2022, 65, 861-895. | 2.3 | 163 |
| 582 | Soils and topography control natural disturbance rates and thereby forest structure in a lowland tropical landscape. <i>Ecology Letters</i> , 2022, 25, 1126-1138. | 3.0 | 18 |
| 583 | Reduced ecosystem resilience quantifies fine-scale heterogeneity in tropical forest mortality responses to drought. <i>Global Change Biology</i> , 2022, 28, 2081-2094. | 4.2 | 12 |
| 584 | Strong temporal variation in treefall and branchfall rates in a tropical forest is related to extreme rainfall: results from 5 years of monthly drone data for a 50 ha plot. <i>Biogeosciences</i> , 2021, 18, 6517-6531. | 1.3 | 13 |
| 585 | Tropical and Boreal Forest – Atmosphere Interactions: A Review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 74, 24. | 0.8 | 27 |
| 586 | Global Forest Biodiversity: Current State, Trends, and Threats. <i>Progress in Botany Fortschritte Der Botanik</i> , 2022, , 125-159. | 0.1 | 1 |
| 587 | Effect of climate change on regeneration of plants from seeds in tropical wet forests. , 2022, , 157-168. | | 1 |
| 588 | Climate and crown damage drive tree mortality in southern Amazonian edge forests. <i>Journal of Ecology</i> , 2022, 110, 876-888. | 1.9 | 12 |
| 589 | Identificação espaço-temporal dos padrões de focos de calor no estado do Maranhão. <i>Ciência E Natura</i> , 0, 43, e99. | 0.0 | 1 |
| 590 | Effects of Climate Change on the Carbon Sequestration Potential of Forest Vegetation in Yunnan Province, Southwest China. <i>Forests</i> , 2022, 13, 306. | 0.9 | 6 |
| 591 | Tropical forest restoration under future climate change. <i>Nature Climate Change</i> , 2022, 12, 279-283. | 8.1 | 35 |
| 592 | Understanding the role of land-use emissions in achieving the Brazilian Nationally Determined Contribution to mitigate climate change. <i>Climate Resilience and Sustainability</i> , 2022, 1, . | 0.9 | 9 |
| 593 | A Conceptual Model for Detecting Small-Scale Forest Disturbances Based on Ecosystem Morphological Traits. <i>Remote Sensing</i> , 2022, 14, 933. | 1.8 | 4 |
| 594 | Climate Change Risks to Global Forest Health: Emergence of Unexpected Events of Elevated Tree Mortality Worldwide. <i>Annual Review of Plant Biology</i> , 2022, 73, 673-702. | 8.6 | 117 |
| 595 | Mechanisms of woody-plant mortality under rising drought, CO ₂ and vapour pressure deficit. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 294-308. | 12.2 | 163 |
| 596 | Impacts of Land Use Change and Atmospheric CO ₂ on Gross Primary Productivity (GPP), Evaporation, and Climate in Southern Amazon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, . | 1.2 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 597 | Pronounced loss of Amazon rainforest resilience since the early 2000s. <i>Nature Climate Change</i> , 2022, 12, 271-278. | 8.1 | 181 |
| 598 | Taking the Gaia hypothesis at face value. <i>Ecological Complexity</i> , 2022, 49, 100981. | 1.4 | 2 |
| 599 | Importance of the forest state in estimating biomass losses from tropical forests: combining dynamic forest models and remote sensing. <i>Biogeosciences</i> , 2022, 19, 1891-1911. | 1.3 | 3 |
| 600 | How Well Do We Understand the Land-Ocean-Atmosphere Carbon Cycle?. <i>Reviews of Geophysics</i> , 2022, 60, . | 9.0 | 38 |
| 601 | Biomass and demographic dynamics of the Brazil nut family (Lecythidaceae) in a mature Central Amazon rain forest. <i>Forest Ecology and Management</i> , 2022, 509, 120058. | 1.4 | 2 |
| 602 | Hydroclimate and vegetation changes in southeastern Amazonia over the past ~25,000 years. <i>Quaternary Science Reviews</i> , 2022, 284, 107466. | 1.4 | 6 |
| 603 | Warming induced tree-growth decline of <i>Toona ciliata</i> in (sub-) tropical southwestern China. <i>Dendrochronologia</i> , 2022, 73, 125954. | 1.0 | 5 |
| 604 | Generating Environmental Knowledge. , 2021, , 173-198. | | 0 |
| 606 | Mapping tropical forest trees across large areas with lightweight cost-effective terrestrial laser scanning. <i>Annals of Forest Science</i> , 2021, 78, . | 0.8 | 8 |
| 607 | Field-based tree mortality constraint reduces estimates of model-projected forest carbon sinks. <i>Nature Communications</i> , 2022, 13, 2094. | 5.8 | 8 |
| 609 | Carbon dioxide spatial variability and dynamics for contrasting land uses in central Brazil agricultural frontier from remote sensing data. <i>Journal of South American Earth Sciences</i> , 2022, 116, 103809. | 0.6 | 12 |
| 610 | Effect of tree demography and flexible root water uptake for modeling the carbon and water cycles of Amazonia. <i>Ecological Modelling</i> , 2022, 469, 109969. | 1.2 | 7 |
| 625 | Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022, 14, 1917-2005. | 3.7 | 663 |
| 626 | Forest Fire History in Amazonia Inferred From Intensive Soil Charcoal Sampling and Radiocarbon Dating. <i>Frontiers in Forests and Global Change</i> , 2022, 5, . | 1.0 | 6 |
| 627 | Asymmetrical cooling effects of Amazonian protected areas across spatiotemporal scales. <i>Environmental Research Letters</i> , 2022, 17, 054038. | 2.2 | 1 |
| 628 | Mapping tree mortality rate in a tropical moist forest using multi-temporal LiDAR. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 109, 102780. | 0.9 | 4 |
| 629 | Human and natural resource exposure to extreme drought at 1.0 Å°C–4.0 Å°C warming levels. <i>Environmental Research Letters</i> , 2022, 17, 064005. | 2.2 | 5 |
| 630 | Whether increased water-use efficiency of <i>Picea crassifolia</i> promotes radial growth of trees in the eastern Qilian Mountains. <i>International Journal of Climatology</i> , 2022, 42, 8201-8213. | 1.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 631 | Tropical tree mortality has increased with rising atmospheric water stress. <i>Nature</i> , 2022, 608, 528-533. | 13.7 | 74 |
| 632 | Climate change, behavior change and health: a multidisciplinary, translational and multilevel perspective. <i>Translational Behavioral Medicine</i> , 2022, 12, 503-515. | 1.2 | 8 |
| 633 | Hurricanes increase tropical forest vulnerability to drought. <i>New Phytologist</i> , 2022, 235, 1005-1017. | 3.5 | 10 |
| 634 | Water table depth modulates productivity and biomass across Amazonian forests. <i>Global Ecology and Biogeography</i> , 2022, 31, 1571-1588. | 2.7 | 17 |
| 635 | Anthropogenic pressure and tree carbon loss in the temperate forests of Kashmir Himalaya. <i>Botany Letters</i> , 2022, 169, 400-412. | 0.7 | 5 |
| 636 | Potential Impacts of Climate Change on the Habitat Suitability of the Dominant Tree Species in Greece. <i>Plants</i> , 2022, 11, 1616. | 1.6 | 18 |
| 637 | Fast action on short-lived climate pollutants and nature-based solutions to help countries meet carbon neutrality goals. <i>Advances in Climate Change Research</i> , 2022, 13, 564-577. | 2.1 | 7 |
| 638 | Climatic and biotic factors influencing regional declines and recovery of tropical forest biomass from the 2015/16 El Niño. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 3.3 | 13 |
| 639 | Sustainable Intensification and Climate-Smart Yam Production for Improved Food Security in West Africa: A Review. <i>Frontiers in Agronomy</i> , 0, 4, . | 1.5 | 7 |
| 640 | The Sustainable Expansion of the Cocoa Crop in the State of Pará; and Its Contribution to Altered Areas Recovery and Fire Reduction. <i>Journal of Geographic Information System</i> , 2022, 14, 294-313. | 0.3 | 4 |
| 641 | Representation of the phosphorus cycle in the Joint UK Land Environment Simulator (vn5.5_JULES-CNP). <i>Geoscientific Model Development</i> , 2022, 15, 5241-5269. | 1.3 | 12 |
| 643 | Emerging signals of declining forest resilience under climate change. <i>Nature</i> , 2022, 608, 534-539. | 13.7 | 132 |
| 644 | Climate and mycorrhizae mediate the relationship of tree species diversity and carbon stocks in subtropical forests. <i>Journal of Ecology</i> , 2022, 110, 2462-2474. | 1.9 | 7 |
| 645 | Global Pattern of Ecosystem Respiration Tendencies and Its Implications on Terrestrial Carbon Sink Potential. <i>Earth's Future</i> , 2022, 10, . | 2.4 | 5 |
| 646 | PADRÃO ALOMÁTICO DE DUAS ESPÉCIES DO GÊNERO <i>Byrsonima</i> (MALPIGHIACEAE) EM UMA ÁREA DE SAVANA NO NORTE DA AMAZÔNIA BRASILEIRA. <i>Ambiente Gestão E Desenvolvimento</i> , 2020, 13, 6-13. | 0.0 | 0 |
| 648 | Recurrent droughts increase risk of cascading tipping events by outpacing adaptive capacities in the Amazon rainforest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 3.3 | 19 |
| 649 | Tropical forests are crucial in regulating the climate on Earth. , 2022, 1, e0000054. | | 7 |
| 650 | Direct evidence for phosphorus limitation on Amazon forest productivity. <i>Nature</i> , 2022, 608, 558-562. | 13.7 | 61 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 651 | Process-oriented analysis of dominant sources of uncertainty in the land carbon sink. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 18 |
| 652 | Mountain forest biomass dynamics and its drivers in southwestern China between 1979 and 2017. <i>Ecological Indicators</i> , 2022, 142, 109289. | 2.6 | 6 |
| 653 | Exceeding 1.5°C global warming could trigger multiple climate tipping points. <i>Science</i> , 2022, 377, . | 6.0 | 562 |
| 654 | Development of novel temporal beta-diversity indices for assessing community compositional shifts accounting for changes in the properties of individuals. <i>Ecological Indicators</i> , 2022, 144, 109427. | 2.6 | 6 |
| 655 | Global patterns and controls of the soil microbial biomass response to elevated CO ₂ . <i>Geoderma</i> , 2022, 428, 116153. | 2.3 | 1 |
| 656 | Scientists' warning to humanity on tree extinctions. <i>Plants People Planet</i> , 2023, 5, 466-482. | 1.6 | 31 |
| 658 | Beyond Carbon: The Contributions of South American Tropical Humid and Subhumid Forests to Ecosystem Services. <i>Reviews of Geophysics</i> , 2022, 60, . | 9.0 | 14 |
| 659 | Soil attributes and spatial variability of soil organic carbon stock under the Atlantic Forest, Brazil. <i>Ciencia Florestal</i> , 2022, 32, 1528-1551. | 0.1 | 0 |
| 660 | Increases in the temperature seasonal cycle indicate long-term drying trends in Amazonia. <i>Communications Earth & Environment</i> , 2022, 3, . | 2.6 | 5 |
| 662 | Climate and land management accelerate the Brazilian water cycle. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 38 |
| 663 | Analyzing the Spatiotemporal Patterns of Forests Carbon Sink and Sources Between 2000 and 2019. <i>Earth's Future</i> , 2022, 10, . | 2.4 | 3 |
| 664 | Prossets: a new financing instrument to deliver a durable net zero transition. <i>Climatic Change</i> , 2022, 174, . | 1.7 | 1 |
| 665 | Local hydrological conditions influence tree diversity and composition across the Amazon basin. <i>Ecography</i> , 2022, 2022, . | 2.1 | 11 |
| 666 | Simulating the Distribution of Rainfall Interception Ratio in a Masson's Pine Plot Using Terrestrial Laser Scanning Data. <i>Hydrological Processes</i> , 0, , . | 1.1 | 0 |
| 667 | Tropical and subtropical dendrochronology: Approaches, applications, and prospects. <i>Ecological Indicators</i> , 2022, 144, 109506. | 2.6 | 8 |
| 668 | A question of scale: modeling biomass, gain and mortality distributions of a tropical forest. <i>Biogeosciences</i> , 2022, 19, 4929-4944. | 1.3 | 0 |
| 669 | How drought events during the last century have impacted biomass carbon in Amazonian rainforests. <i>Global Change Biology</i> , 2023, 29, 747-762. | 4.2 | 4 |
| 670 | Soil pyrogenic carbon in southern Amazonia: Interaction between soil, climate, and above-ground biomass. <i>Frontiers in Forests and Global Change</i> , 0, 5, . | 1.0 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 671 | Towards a unified theory of plant photosynthesis and hydraulics. <i>Nature Plants</i> , 2022, 8, 1304-1316. | 4.7 | 38 |
| 672 | Atmospheric phosphorus deposition amplifies carbon sinks in simulations of a tropical forest in Central Africa. <i>New Phytologist</i> , 2023, 237, 2054-2068. | 3.5 | 4 |
| 673 | Bolivia's Net Zero path: Investment needs, challenges, and opportunities. <i>Frontiers in Climate</i> , 0, 4, . | 1.3 | 2 |
| 674 | Forest fluxes and mortality response to drought: model description (ORCHIDEE-CAN-NHA r7236) and evaluation at the Caxiuanã drought experiment. <i>Geoscientific Model Development</i> , 2022, 15, 7809-7833. | 1.3 | 3 |
| 675 | Low sensitivity of three terrestrial biosphere models to soil texture over the South American tropics. <i>Geoscientific Model Development</i> , 2022, 15, 7573-7591. | 1.3 | 0 |
| 676 | Climate change: food safety challenges in the near future. , 2023, , 1113-1124. | | 1 |
| 677 | Soil resistance and recovery during neotropical forest succession. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2023, 378, . | 1.8 | 15 |
| 678 | Landscape-scale drivers of liana load across a Southeast Asian forest canopy differ to the Neotropics. <i>Journal of Ecology</i> , 2023, 111, 77-89. | 1.9 | 3 |
| 679 | Global Carbon Budget 2022. <i>Earth System Science Data</i> , 2022, 14, 4811-4900. | 3.7 | 492 |
| 681 | Global Positive Effects of Litter Inputs on Soil Nitrogen Pools and Fluxes. <i>Ecosystems</i> , 2023, 26, 860-872. | 1.6 | 6 |
| 682 | Seasonal variations in vegetation water content retrieved from microwave remote sensing over Amazon intact forests. <i>Remote Sensing of Environment</i> , 2023, 285, 113409. | 4.6 | 12 |
| 683 | Mixed plantations have more soil carbon sequestration benefits than pure plantations in China. <i>Forest Ecology and Management</i> , 2023, 529, 120654. | 1.4 | 8 |
| 684 | Seasonal patterns of rhizosphere microorganisms suggest carbohydrate-degrading and nitrogen-fixing microbes contribute to the attribute of full-year shooting in woody bamboo <i>Cephalostachyum pingbianense</i> . <i>Frontiers in Microbiology</i> , 0, 13, . | 1.5 | 4 |
| 685 | A GEE toolkit for water quality monitoring from 2002 to 2022 in support of SDG 14 and coral health in marine protected areas in Belize. <i>Frontiers in Remote Sensing</i> , 0, 3, . | 1.3 | 1 |
| 686 | Declining Amazon biomass due to deforestation and subsequent degradation losses exceeding gains. <i>Global Change Biology</i> , 2023, 29, 1106-1118. | 4.2 | 16 |
| 687 | Abrupt loss and uncertain recovery from fires of Amazon forests under low climate mitigation scenarios. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 3.3 | 5 |
| 688 | Long-term fire and vegetation change in northwestern Amazonia. <i>Biotropica</i> , 2023, 55, 197-209. | 0.8 | 5 |
| 689 | Enhanced carbon, nitrogen and associated bacterial community compositional complexity, stability, evenness, and differences within the tree-soils of <i>Inga punctata</i> along an age gradient of planted trees in reforestation plots. <i>Plant and Soil</i> , 2023, 484, 327-346. | 1.8 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 690 | Ecological Compensation in the Context of Carbon Neutrality: A Case Involving Service Production-Transmission and Distribution-Service Consumption. <i>Land</i> , 2022, 11, 2321. | 1.2 | 1 |
| 691 | Warming offsets the benefits of elevated CO ₂ in water relations while amplifies elevated CO ₂ -induced reduction in forage nutritional value in the C4 grass <i>Megathyrsus maximus</i> . <i>Frontiers in Plant Science</i> , 0, 13, . | 1.7 | 1 |
| 692 | Amazon drought resilience “ emerging results point to new empirical needs. <i>New Phytologist</i> , 2023, 237, 703-706. | 3.5 | 0 |
| 693 | Amazon windthrow disturbances are likely to increase with storm frequency under global warming. <i>Nature Communications</i> , 2023, 14, . | 5.8 | 14 |
| 694 | Windthrow characteristics and their regional association with rainfall, soil, and surface elevation in the Amazon. <i>Environmental Research Letters</i> , 2023, 18, 014030. | 2.2 | 4 |
| 695 | Soil Moisture Assimilation Improves Terrestrial Biosphere Model GPP Responses to Sub-Annual Drought at Continental Scale. <i>Remote Sensing</i> , 2023, 15, 676. | 1.8 | 0 |
| 696 | Spatiotemporal analysis of atmospheric XCH ₄ as related to fires in the Amazon biome during 2015–2020. <i>Remote Sensing Applications: Society and Environment</i> , 2023, 30, 100967. | 0.8 | 0 |
| 697 | Anthropogenic activities dominated tropical forest carbon balance in two contrary ways over the Greater Mekong Subregion in the 21st century. <i>Global Change Biology</i> , 2023, 29, 3421-3432. | 4.2 | 2 |
| 698 | Moisture origins of the Amazon carbon source region. <i>Environmental Research Letters</i> , 2023, 18, 044027. | 2.2 | 6 |
| 699 | Phytoliths in modern plants from Amazonia and the Neotropics at large: II. Enhancement of eudicotyledon reference collections. <i>Quaternary International</i> , 2023, 655, 1-17. | 0.7 | 4 |
| 700 | The role of tree size, wood anatomical and leaf stomatal traits in shaping tree hydraulic efficiency and safety in a South Asian tropical moist forest. <i>Global Ecology and Conservation</i> , 2023, 43, e02453. | 1.0 | 0 |
| 701 | Net loss of biomass predicted for tropical biomes in a changing climate. <i>Nature Climate Change</i> , 2023, 13, 274-281. | 8.1 | 11 |
| 702 | Comparing different methods for biomass modeling over tropical region based on Landsat data. , 2023, , . | | 0 |
| 703 | Ancient fires enhance Amazon forest drought resistance. <i>Frontiers in Forests and Global Change</i> , 0, 6, . | 1.0 | 1 |
| 704 | Forest ecosystem services at landscape level “ Why forest transition matters?. <i>Forest Ecology and Management</i> , 2023, 534, 120782. | 1.4 | 4 |
| 705 | Long- and short-term impacts of climate and dry-season on wood traits of <i>Cedrela fissilis</i> Vell. in southern Brazilian Amazon. <i>Agricultural and Forest Meteorology</i> , 2023, 333, 109392. | 1.9 | 1 |
| 706 | No relationship between biodiversity and forest carbon sink across the subtropical Brazilian Atlantic Forest. <i>Perspectives in Ecology and Conservation</i> , 2023, 21, 112-120. | 1.0 | 2 |
| 707 | Lianas increase lightning–caused disturbance severity in a tropical forest. <i>New Phytologist</i> , 2023, 238, 1865-1875. | 3.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 708 | Soil microbiome feedback to climate change and options for mitigation. <i>Science of the Total Environment</i> , 2023, 882, 163412. | 3.9 | 10 |
| 709 | Differing local-scale responses of Bolivian Amazon forest ecotones to middle Holocene drought based upon multiproxy soil data. <i>Journal of Quaternary Science</i> , 2023, 38, 970-990. | 1.1 | 1 |
| 710 | The Relevance of Maintaining Standing Forests for Global Climate Balance: A Case Study in Brazilian Forests. , 0, , . | | 0 |
| 711 | Vegetation browning: global drivers, impacts, and feedbacks. <i>Trends in Plant Science</i> , 2023, 28, 1014-1032. | 4.3 | 5 |
| 722 | The forest is not yet lost. <i>Nature Climate Change</i> , 0, , . | 8.1 | 0 |
| 732 | Evidence and attribution of the enhanced land carbon sink. <i>Nature Reviews Earth & Environment</i> , 2023, 4, 518-534. | 12.2 | 18 |
| 739 | Climate Change Communication Among Ghanaian Cocoa Farmers: Social Media as a Driver. , 2023, , 1-24. | | 0 |
| 774 | Climate change and tropical forests. , 2024, , 203-219. | | 0 |
| 786 | Effects of Anthropogenic Climate Change on Ecosystems and Biodiversity, with an Emphasis on Amazonian Mammals. , 2023, , 437-465. | | 0 |