

# T R Feldpausch

## List of Publications by Year in descending order

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Version: 2024-02-01

123  
papers

15,214  
citations

30047

54  
h-index

19726

117  
g-index

141  
all docs

141  
docs citations

141  
times ranked

15512  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drought Sensitivity of the Amazon Rainforest. <i>Science</i> , 2009, 323, 1344-1347.	6.0	1,443
2	Hyperdominance in the Amazonian Tree Flora. <i>Science</i> , 2013, 342, 1243092.	6.0	873
3	Increasing carbon storage in intact African tropical forests. <i>Nature</i> , 2009, 457, 1003-1006.	13.7	816
4	Long-term decline of the Amazon carbon sink. <i>Nature</i> , 2015, 519, 344-348.	13.7	796
5	Drought-mortality relationships for tropical forests. <i>New Phytologist</i> , 2010, 187, 631-646.	3.5	487
6	Drought impact on forest carbon dynamics and fluxes in Amazonia. <i>Nature</i> , 2015, 519, 78-82.	13.7	464
7	Persistent effects of pre-Columbian plant domestication on Amazonian forest composition. <i>Science</i> , 2017, 355, 925-931.	6.0	443
8	Asynchronous carbon sink saturation in African and Amazonian tropical forests. <i>Nature</i> , 2020, 579, 80-87.	13.7	439
9	Global trait-environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018, 2, 1906-1917.	3.4	397
10	Height-diameter allometry of tropical forest trees. <i>Biogeosciences</i> , 2011, 8, 1081-1106.	1.3	396
11	Tree height integrated into pantropical forest biomass estimates. <i>Biogeosciences</i> , 2012, 9, 3381-3403.	1.3	373
12	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. <i>Nature</i> , 2019, 569, 404-408.	13.7	371
13	Intensification of the Amazon hydrological cycle over the last two decades. <i>Geophysical Research Letters</i> , 2013, 40, 1729-1733.	1.5	284
14	Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , 2019, 25, 39-56.	4.2	265
15	Above-ground biomass and structure of 260 African tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120295.	1.8	264
16	Diversity and carbon storage across the tropical forest biome. <i>Scientific Reports</i> , 2017, 7, 39102.	1.6	251
17	Markedly divergent estimates of Amazon forest carbon density from ground plots and satellites. <i>Global Ecology and Biogeography</i> , 2014, 23, 935-946.	2.7	248
18	Measuring biomass changes due to woody encroachment and deforestation/degradation in a forest-savanna boundary region of central Africa using multi-temporal L-band radar backscatter. <i>Remote Sensing of Environment</i> , 2011, 115, 2861-2873.	4.6	226

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19	Using satellite radar backscatter to predict above-ground woody biomass: A consistent relationship across four different African landscapes. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	222
20	Hyperdominance in Amazonian forest carbon cycling. <i>Nature Communications</i> , 2015, 6, 6857.	5.8	214
21	Drought-induced shifts in the floristic and functional composition of tropical forests in Ghana. <i>Ecology Letters</i> , 2012, 15, 1120-1129.	3.0	205
22	Amazon forest response to repeated droughts. <i>Global Biogeochemical Cycles</i> , 2016, 30, 964-982.	1.9	201
23	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020, 368, 869-874.	6.0	198
24	CARBON AND NUTRIENT ACCUMULATION IN SECONDARY FORESTS REGENERATING ON PASTURES IN CENTRAL AMAZONIA. , 2004, 14, 164-176.		197
25	Co-limitation of photosynthetic capacity by nitrogen and phosphorus in West Africa woodlands. <i>Plant, Cell and Environment</i> , 2010, 33, 959-980.	2.8	192
26	What controls tropical forest architecture? Testing environmental, structural and floristic drivers. <i>Global Ecology and Biogeography</i> , 2012, 21, 1179-1190.	2.7	187
27	Size and frequency of natural forest disturbances and the Amazon forest carbon balance. <i>Nature Communications</i> , 2014, 5, 3434.	5.8	169
28	Ecosystem heterogeneity determines the ecological resilience of the Amazon to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 793-797.	3.3	161
29	Seasonal drought limits tree species across the Neotropics. <i>Ecography</i> , 2017, 40, 618-629.	2.1	143
30	ECOLOGICAL RESEARCH IN THE LARGE-SCALE BIOSPHERE ATMOSPHERE EXPERIMENT IN AMAZONIA: EARLY RESULTS. , 2004, 14, 3-16.		130
31	Estimating the global conservation status of more than 15,000 Amazonian tree species. <i>Science Advances</i> , 2015, 1, e1500936.	4.7	122
32	SAR tomography for the retrieval of forest biomass and height: Cross-validation at two tropical forest sites in French Guiana. <i>Remote Sensing of Environment</i> , 2016, 175, 138-147.	4.6	118
33	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
34	Variation in soil carbon stocks and their determinants across a precipitation gradient in West Africa. <i>Global Change Biology</i> , 2012, 18, 1670-1683.	4.2	114
35	Species Distribution Modelling: Contrasting presence-only models with plot abundance data. <i>Scientific Reports</i> , 2018, 8, 1003.	1.6	113
36	Legacy of fire slows carbon accumulation in Amazonian forest regrowth. <i>Frontiers in Ecology and the Environment</i> , 2005, 3, 365-369.	1.9	111

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37	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
38	On the delineation of tropical vegetation types with an emphasis on forest/savanna transitions. <i>Plant Ecology and Diversity</i> , 2013, 6, 101-137.	1.0	105
39	Disequilibrium and hyperdynamic tree turnover at the forest-cerrado transition zone in southern Amazonia. <i>Plant Ecology and Diversity</i> , 2014, 7, 281-292.	1.0	97
40	Using repeated small-footprint LiDAR acquisitions to infer spatial and temporal variations of a high-biomass Neotropical forest. <i>Remote Sensing of Environment</i> , 2015, 169, 93-101.	4.6	92
41	Growth, leaf nutrient concentration and photosynthetic nutrient use efficiency in tropical tree species planted in degraded areas in central Amazonia. <i>Forest Ecology and Management</i> , 2006, 226, 299-309.	1.4	89
42	When big trees fall: Damage and carbon export by reduced impact logging in southern Amazonia. <i>Forest Ecology and Management</i> , 2005, 219, 199-215.	1.4	87
43	The number of tree species on Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	86
44	The carbon balance of South America: a review of the status, decadal trends and main determinants. <i>Biogeosciences</i> , 2012, 9, 5407-5430.	1.3	78
45	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
46	Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , 2018, 27, 1366-1383.	2.7	78
47	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
48	Methods to estimate aboveground wood productivity from long-term forest inventory plots. <i>Forest Ecology and Management</i> , 2014, 320, 30-38.	1.4	75
49	Drier tropical forests are susceptible to functional changes in response to a long-term drought. <i>Ecology Letters</i> , 2019, 22, 855-865.	3.0	75
50	Secondary forest growth deviation from chronosequence predictions in central Amazonia. <i>Global Change Biology</i> , 2007, 13, 967-979.	4.2	74
51	Does the disturbance hypothesis explain the biomass increase in basin-wide Amazon forest plot data?. <i>Global Change Biology</i> , 2009, 15, 2418-2430.	4.2	74
52	Tropical forest and peatland conservation in Indonesia: Challenges and directions. <i>People and Nature</i> , 2020, 2, 4-28.	1.7	74
53	Phylogenetic diversity of Amazonian tree communities. <i>Diversity and Distributions</i> , 2015, 21, 1295-1307.	1.9	72
54	Evidence for arrested succession in a liana-infested Amazonian forest. <i>Journal of Ecology</i> , 2016, 104, 149-159.	1.9	71

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55	Fast demographic traits promote high diversification rates of Amazonian trees. <i>Ecology Letters</i> , 2014, 17, 527-536.	3.0	63
56	Structural, physiognomic and above-ground biomass variation in savanna forest transition zones on three continents – how different are co-occurring savanna and forest formations?. <i>Biogeosciences</i> , 2015, 12, 2927-2951.	1.3	63
57	Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , 2020, 11, 5515.	5.8	62
58	The global abundance of tree palms. <i>Global Ecology and Biogeography</i> , 2020, 29, 1495-1514.	2.7	62
59	Disentangling regional and local tree diversity in the Amazon. <i>Ecography</i> , 2009, 32, 46-54.	2.1	61
60	Non-structural carbohydrates mediate seasonal water stress across Amazon forests. <i>Nature Communications</i> , 2021, 12, 2310.	5.8	59
61	Competition influences tree growth, but not mortality, across environmental gradients in Amazonia and tropical Africa. <i>Ecology</i> , 2020, 101, e03052.	1.5	57
62	Edaphic, structural and physiological contrasts across Amazon Basin forest-savanna ecotones suggest a role for potassium as a key modulator of tropical woody vegetation structure and function. <i>Biogeosciences</i> , 2015, 12, 6529-6571.	1.3	55
63	Differentiation of neotropical ecosystems by modern soil phytolith assemblages and its implications for palaeoenvironmental and archaeological reconstructions II: Southwestern Amazonian forests. <i>Review of Palaeobotany and Palynology</i> , 2016, 226, 30-43.	0.8	55
64	Biased-corrected richness estimates for the Amazonian tree flora. <i>Scientific Reports</i> , 2020, 10, 10130.	1.6	53
65	Relationships between soil hydrology and forest structure and composition in the southern Brazilian Amazon. <i>Journal of Vegetation Science</i> , 2007, 18, 183-194.	1.1	51
66	Floristics and biogeography of vegetation in seasonally dry tropical regions. <i>International Forestry Review</i> , 2015, 17, 10-32.	0.3	50
67	Soil physical conditions limit palm and tree basal area in Amazonian forests. <i>Plant Ecology and Diversity</i> , 2014, 7, 215-229.	1.0	45
68	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
69	Basin-wide variations in Amazon forest nitrogen-cycling characteristics as inferred from plant and soil N measurements. <i>Plant Ecology and Diversity</i> , 2014, 7, 173-187.	1.0	43
70	Evolutionary heritage influences Amazon tree ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161587.	1.2	43
71	The persistence of carbon in the African forest understory. <i>Nature Plants</i> , 2019, 5, 133-140.	4.7	41
72	Representation of fire, land-use change and vegetation dynamics in the Joint UK Land Environment Simulator vn4.9 (JULES). <i>Geoscientific Model Development</i> , 2019, 12, 179-193.	1.3	41

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73	Using learning networks to understand complex systems: a case study of biological, geophysical and social research in the Amazon. <i>Biological Reviews</i> , 2011, 86, 457-474.	4.7	39
74	Development of Forest Structure and Leaf Area in Secondary Forests Regenerating on Abandoned Pastures in Central Amazônia. <i>Earth Interactions</i> , 2005, 9, 1-22.	0.7	38
75	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
76	Tree diversity and above-ground biomass in the South America Cerrado biome and their conservation implications. <i>Biodiversity and Conservation</i> , 2020, 29, 1519-1536.	1.2	36
77	Evolutionary diversity is associated with wood productivity in Amazonian forests. <i>Nature Ecology and Evolution</i> , 2019, 3, 1754-1761.	3.4	32
78	Comment on "A first map of tropical Africa's above-ground biomass derived from satellite imagery". <i>Environmental Research Letters</i> , 2011, 6, 049001.	2.2	31
79	Amazon Basin forest pyrogenic carbon stocks: First estimate of deep storage. <i>Geoderma</i> , 2017, 306, 237-243.	2.3	29
80	Rarity of monodominance in hyperdiverse Amazonian forests. <i>Scientific Reports</i> , 2019, 9, 13822.	1.6	28
81	Legacy of Amazonian Dark Earth soils on forest structure and species composition. <i>Global Ecology and Biogeography</i> , 2020, 29, 1458-1473.	2.7	28
82	El Niño Driven Changes in Global Fire 2015/16. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	28
83	Relationships of S-Band Radar Backscatter and Forest Aboveground Biomass in Different Forest Types. <i>Remote Sensing</i> , 2017, 9, 1116.	1.8	27
84	Pantropical variability in tree crown allometry. <i>Global Ecology and Biogeography</i> , 2021, 30, 459-475.	2.7	27
85	Amazon tree dominance across forest strata. <i>Nature Ecology and Evolution</i> , 2021, 5, 757-767.	3.4	27
86	Biome-specific effects of nitrogen and phosphorus on the photosynthetic characteristics of trees at a forest-savanna boundary in Cameroon. <i>Oecologia</i> , 2015, 178, 659-672.	0.9	25
87	Biomass, harvestable area, and forest structure estimated from commercial timber inventories and remotely sensed imagery in southern Amazonia. <i>Forest Ecology and Management</i> , 2006, 233, 121-132.	1.4	24
88	Water-use efficiency of tree species following calcium and phosphorus application on an abandoned pasture, central Amazonia, Brazil. <i>Environmental and Experimental Botany</i> , 2008, 64, 189-195.	2.0	24
89	Foliar trait contrasts between African forest and savanna trees: genetic versus environmental effects. <i>Functional Plant Biology</i> , 2015, 42, 63.	1.1	23
90	Fire Effects on Understory Forest Regeneration in Southern Amazonia. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	23

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91	Patterns of late-season photosynthate movement in sugar maple saplings. <i>Canadian Journal of Forest Research</i> , 2009, 39, 2294-2298.	0.8	22
92	Aboveground forest biomass varies across continents, ecological zones and successional stages: refined IPCC default values for tropical and subtropical forests. <i>Environmental Research Letters</i> , 2022, 17, 014047.	2.2	21
93	Calibrating the liana crown occupancy index in Amazonian forests. <i>Forest Ecology and Management</i> , 2010, 260, 549-555.	1.4	20
94	Diversity, floristic composition, and structure of the woody vegetation of the Cerrado in the Cerrado-Amazon transition zone in Mato Grosso, Brazil. <i>Revista Brasileira De Botanica</i> , 2015, 38, 877-887.	0.5	20
95	Soil-induced impacts on forest structure drive coarse woody debris stocks across central Amazonia. <i>Plant Ecology and Diversity</i> , 2015, 8, 229-241.	1.0	20
96	The influence of C&lt;sub&gt;3&lt;/sub&gt; and C&lt;sub&gt;4&lt;/sub&gt; vegetation on soil organic matter dynamics in contrasting semi-natural tropical ecosystems. <i>Biogeosciences</i> , 2015, 12, 5041-5059.	1.3	19
97	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
98	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
99	Impacts of Fire on Forest Biomass Dynamics at the Southern Amazon Edge. <i>Environmental Conservation</i> , 2019, 46, 285-292.	0.7	18
100	Water table depth modulates productivity and biomass across Amazonian forests. <i>Global Ecology and Biogeography</i> , 2022, 31, 1571-1588.	2.7	17
101	Ecology of Floodplain <i>Campos de Murundus</i> Savanna in Southern Amazonia. <i>International Journal of Plant Sciences</i> , 2015, 176, 670-681.	0.6	16
102	Post-fire dynamics of the woody vegetation of a savanna forest (Cerradão) in the Cerrado-Amazon transition zone. <i>Acta Botanica Brasílica</i> , 2015, 29, 408-416.	0.8	16
103	Eficiência no uso dos nutrientes por espécies pioneiras crescidas em pastagens degradadas na Amazônia central. <i>Acta Amazonica</i> , 2006, 36, 503-512.	0.3	16
104	Post-fire dynamics of woody vegetation in seasonally flooded forests (impucas) in the Cerrado-Amazonian Forest transition zone. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2014, 209, 260-270.	0.6	15
105	Patterns of tree species composition at watershed-scale in the Amazon arc of deforestation™: implications for conservation. <i>Environmental Conservation</i> , 2016, 43, 317-326.	0.7	14
106	Charcoal chronology of the Amazon forest: A record of biodiversity preserved by ancient fires. <i>Quaternary Geochronology</i> , 2017, 41, 180-186.	0.6	14
107	What controls local-scale aboveground biomass variation in central Africa? Testing structural, composition and architectural attributes. <i>Forest Ecology and Management</i> , 2018, 429, 570-578.	1.4	14
108	Causes and consequences of liana infestation in southern Amazonia. <i>Journal of Ecology</i> , 2020, 108, 2184-2197.	1.9	13

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109	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
110	Soil water-holding capacity and monodominance in Southern Amazon tropical forests. <i>Plant and Soil</i> , 2020, 450, 65-79.	1.8	12
111	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
112	Climate and crown damage drive tree mortality in southern Amazonian edge forests. <i>Journal of Ecology</i> , 2022, 110, 876-888.	1.9	12
113	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
114	Nitrogen aboveground turnover and soil stocks to 8â€m depth in primary and selectively logged forest in southern Amazonia. <i>Global Change Biology</i> , 2010, 16, 1793-1805.	4.2	9
115	Diversity, abundance and distribution of lianas of the Cerradoâ€Amazonian forest transition, Brazil. <i>Plant Ecology and Diversity</i> , 2014, 7, 231-240.	1.0	9
116	MODIS Vegetation Continuous Fields tree cover needs calibrating in tropical savannas. <i>Biogeosciences</i> , 2022, 19, 1377-1394.	1.3	7
117	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
118	Does soil pyrogenic carbon determine plant functional traits in Amazon Basin forests?. <i>Plant Ecology</i> , 2017, 218, 1047-1062.	0.7	5
119	Tracing carbon flow through a sugar maple forest and its soil components: role of invasive earthworms. <i>Plant and Soil</i> , 2021, 464, 517-537.	1.8	5
120	Variation in soil carbon stocks and their determinants across a precipitation gradient in West Africa. <i>Global Change Biology</i> , 2012, 18, 2676-2676.	4.2	2
121	Legacy of Fire Slows Carbon Accumulation in Amazonian Forest Regrowth. <i>Frontiers in Ecology and the Environment</i> , 2005, 3, 365.	1.9	1
122	Climate defined but not soil-restricted: the distribution of a Neotropical tree through space and time. <i>Plant and Soil</i> , 2022, 471, 175-191.	1.8	0
123	Primary modes of tree mortality in southwestern Amazon forests. <i>Trees, Forests and People</i> , 2022, 7, 100180.	0.8	0