

# T R Feldpausch

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

126  
papers

11,012  
citations

51  
h-index

104  
g-index

141  
ext. papers

13,226  
ext. citations

8.8  
avg, IF

5.06  
L-index

#	Paper	IF	Citations
126	The number of tree species on Earth.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	6
125	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> , <b>2022</b> , 17, 014047	6.2	5
124	Primary modes of tree mortality in southwestern Amazon forests. <i>Trees, Forests and People</i> , <b>2022</b> , 7, 100180	1.8	
123	MODIS Vegetation Continuous Fields tree cover needs calibrating in tropical savannas. <i>Biogeosciences</i> , <b>2022</b> , 19, 1377-1394	4.6	0
122	Tracing carbon flow through a sugar maple forest and its soil components: role of invasive earthworms. <i>Plant and Soil</i> , <b>2021</b> , 464, 517-537	4.2	1
121	Non-structural carbohydrates mediate seasonal water stress across Amazon forests. <i>Nature Communications</i> , <b>2021</b> , 12, 2310	17.4	13
120	Amazon tree dominance across forest strata. <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 757-767	12.3	5
119	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> , <b>2021</b> , 118,	11.5	10
118	Expanding tropical forest monitoring into Dry Forests: The DRYFLOR protocol for permanent plots. <i>Plants People Planet</i> , <b>2021</b> , 3, 295-300	4.1	9
117	Pantropical variability in tree crown allometry. <i>Global Ecology and Biogeography</i> , <b>2021</b> , 30, 459-475	6.1	6
116	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , <b>2020</b> , 368, 869-874	33.3	92
115	Legacy of Amazonian Dark Earth soils on forest structure and species composition. <i>Global Ecology and Biogeography</i> , <b>2020</b> , 29, 1458-1473	6.1	13
114	Drought generates large, long-term changes in tree and liana regeneration in a monodominant Amazon forest. <i>Plant Ecology</i> , <b>2020</b> , 221, 733-747	1.7	5
113	El Niño Driven Changes in Global Fire 2015/16. <i>Frontiers in Earth Science</i> , <b>2020</b> , 8,	3.5	7
112	Biased-corrected richness estimates for the Amazonian tree flora. <i>Scientific Reports</i> , <b>2020</b> , 10, 10130	4.9	24
111	Competition influences tree growth, but not mortality, across environmental gradients in Amazonia and tropical Africa. <i>Ecology</i> , <b>2020</b> , 101, e03052	4.6	24
110	Asynchronous carbon sink saturation in African and Amazonian tropical forests. <i>Nature</i> , <b>2020</b> , 579, 80-87	50.4	202

109	The global abundance of tree palms. <i>Global Ecology and Biogeography</i> , <b>2020</b> , 29, 1495-1514	6.1	21
108	Causes and consequences of liana infestation in southern Amazonia. <i>Journal of Ecology</i> , <b>2020</b> , 108, 2184-2197	4	
107	Fire Effects on Understory Forest Regeneration in Southern Amazonia. <i>Frontiers in Forests and Global Change</i> , <b>2020</b> , 3,	3.7	8
106	Tropical forest and peatland conservation in Indonesia: Challenges and directions. <i>People and Nature</i> , <b>2020</b> , 2, 4-28	5.9	37
105	Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , <b>2020</b> , 11, 5515	17.4	24
104	Tree diversity and above-ground biomass in the South America Cerrado biome and their conservation implications. <i>Biodiversity and Conservation</i> , <b>2020</b> , 29, 1519-1536	3.4	19
103	Soil water-holding capacity and monodominance in Southern Amazon tropical forests. <i>Plant and Soil</i> , <b>2020</b> , 450, 65-79	4.2	6
102	Impacts of Fire on Forest Biomass Dynamics at the Southern Amazon Edge. <i>Environmental Conservation</i> , <b>2019</b> , 46, 285-292	3.3	11
101	Rarity of monodominance in hyperdiverse Amazonian forests. <i>Scientific Reports</i> , <b>2019</b> , 9, 13822	4.9	19
100	The persistence of carbon in the African forest understory. <i>Nature Plants</i> , <b>2019</b> , 5, 133-140	11.5	19
99	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. <i>Nature</i> , <b>2019</b> , 569, 404-408	50.4	203
98	Drier tropical forests are susceptible to functional changes in response to a long-term drought. <i>Ecology Letters</i> , <b>2019</b> , 22, 855-865	10	39
97	Representation of fire, land-use change and vegetation dynamics in the Joint UK Land Environment Simulator vn4.9 (JULES). <i>Geoscientific Model Development</i> , <b>2019</b> , 12, 179-193	6.3	19
96	Individual-Based Modeling of Amazon Forests Suggests That Climate Controls Productivity While Traits Control Demography. <i>Frontiers in Earth Science</i> , <b>2019</b> , 7,	3.5	12
95	Estimating aboveground net biomass change for tropical and subtropical forests: Refinement of IPCC default rates using forest plot data. <i>Global Change Biology</i> , <b>2019</b> , 25, 3609-3624	11.4	44
94	The Forest Observation System, building a global reference dataset for remote sensing of forest biomass. <i>Scientific Data</i> , <b>2019</b> , 6, 198	8.2	29
93	Evolutionary diversity is associated with wood productivity in Amazonian forests. <i>Nature Ecology and Evolution</i> , <b>2019</b> , 3, 1754-1761	12.3	17
92	Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , <b>2019</b> , 25, 39-56	11.4	158

91	Species Distribution Modelling: Contrasting presence-only models with plot abundance data. <i>Scientific Reports</i> , <b>2018</b> , 8, 1003	4.9	78
90	Field methods for sampling tree height for tropical forest biomass estimation. <i>Methods in Ecology and Evolution</i> , <b>2018</b> , 9, 1179-1189	7.7	53
89	Climate and fragmentation affect forest structure at the southern border of Amazonia. <i>Plant Ecology and Diversity</i> , <b>2018</b> , 11, 13-25	2.2	7
88	What controls local-scale aboveground biomass variation in central Africa? Testing structural, composition and architectural attributes. <i>Forest Ecology and Management</i> , <b>2018</b> , 429, 570-578	3.9	10
87	Global trait-environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1906-1917	6.1	209
86	Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 1366-1383	6.1	52
85	Savanna turning into forest: concerted vegetation change at the ecotone between the Amazon and Cerrado biomes. <i>Revista Brasileira De Botanica</i> , <b>2018</b> , 41, 611-619	1.2	11
84	Seasonal drought limits tree species across the Neotropics. <i>Ecography</i> , <b>2017</b> , 40, 618-629	6.5	93
83	Diversity and carbon storage across the tropical forest biome. <i>Scientific Reports</i> , <b>2017</b> , 7, 39102	4.9	177
82	Persistent effects of pre-Columbian plant domestication on Amazonian forest composition. <i>Science</i> , <b>2017</b> , 355, 925-931	33.3	280
81	Charcoal chronology of the Amazon forest: A record of biodiversity preserved by ancient fires. <i>Quaternary Geochronology</i> , <b>2017</b> , 41, 180-186	2.7	8
80	Relationships of S-Band Radar Backscatter and Forest Aboveground Biomass in Different Forest Types. <i>Remote Sensing</i> , <b>2017</b> , 9, 1116	5	18
79	Does soil pyrogenic carbon determine plant functional traits in Amazon Basin forests?. <i>Plant Ecology</i> , <b>2017</b> , 218, 1047-1062	1.7	2
78	Amazon Basin forest pyrogenic carbon stocks: First estimate of deep storage. <i>Geoderma</i> , <b>2017</b> , 306, 237-243	6.4	20
77	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> , <b>2016</b> , 22, 3996-4013	11.4	99
76	Amazon forest response to repeated droughts. <i>Global Biogeochemical Cycles</i> , <b>2016</b> , 30, 964-982	5.9	149
75	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> , <b>2016</b> , 175, 138-147	13.2	87
74	Evidence for arrested succession in a liana-infested Amazonian forest. <i>Journal of Ecology</i> , <b>2016</b> , 104, 149-159	6	52

73	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> , <b>2016</b> , 113, 793-7	11.5	127
72	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> , <b>2016</b> , 226, 30-43	1.7	32
71	Patterns of tree species composition at watershed-scale in the Amazon Basin of deforestation: implications for conservation. <i>Environmental Conservation</i> , <b>2016</b> , 43, 317-326	3.3	9
70	Evolutionary heritage influences Amazon tree ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,	4.4	29
69	Drought impact on forest carbon dynamics and fluxes in Amazonia. <i>Nature</i> , <b>2015</b> , 519, 78-82	50.4	341
68	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> , <b>2015</b> , 38, 877-887	1.2	11
67	Hyperdominance in Amazonian forest carbon cycling. <i>Nature Communications</i> , <b>2015</b> , 6, 6857	17.4	157
66	Biome-specific effects of nitrogen and phosphorus on the photosynthetic characteristics of trees at a forest-savanna boundary in Cameroon. <i>Oecologia</i> , <b>2015</b> , 178, 659-72	2.9	18
65	Long-term decline of the Amazon carbon sink. <i>Nature</i> , <b>2015</b> , 519, 344-8	50.4	583
64	Using repeated small-footprint LiDAR acquisitions to infer spatial and temporal variations of a high-biomass Neotropical forest. <i>Remote Sensing of Environment</i> , <b>2015</b> , 169, 93-101	13.2	79
63	Estimating the global conservation status of more than 15,000 Amazonian tree species. <i>Science Advances</i> , <b>2015</b> , 1, e1500936	14.3	91
62	Soil-induced impacts on forest structure drive coarse woody debris stocks across central Amazonia. <i>Plant Ecology and Diversity</i> , <b>2015</b> , 8, 229-241	2.2	14
61	Floristics and biogeography of vegetation in seasonally dry tropical regions. <i>International Forestry Review</i> , <b>2015</b> , 17, 10-32	0.9	34
60	Phylogenetic diversity of Amazonian tree communities. <i>Diversity and Distributions</i> , <b>2015</b> , 21, 1295-1307	5	56
59	Recent Amazon climate as background for possible ongoing and future changes of Amazon humid forests. <i>Global Biogeochemical Cycles</i> , <b>2015</b> , 29, 1384-1399	5.9	72
58	Ecology of Floodplain Campos de Murundus Savanna in Southern Amazonia. <i>International Journal of Plant Sciences</i> , <b>2015</b> , 176, 670-681	2.6	12
57	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> , <b>2015</b> , 12, 6529-6571	4.6	40
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> , <b>2015</b> , 12, 2927-2951	4.6	50

55	The influence of C <sub>3</sub> and C <sub>4</sub> vegetation on soil organic matter dynamics in contrasting semi-natural tropical ecosystems. <i>Biogeosciences</i> , <b>2015</b> , 12, 5041-5059	4.6	12
54	Post-fire dynamics of the woody vegetation of a savanna forest (Cerradão) in the Cerrado-Amazon transition zone. <i>Acta Botanica Brasílica</i> , <b>2015</b> , 29, 408-416	1	11
53	The influence of C <sub>3</sub> and C <sub>4</sub> vegetation on soil organic matter dynamics in contrasting semi-natural tropical ecosystems <b>2015</b> ,		1
52	Foliar trait contrasts between African forest and savanna trees: genetic versus environmental effects. <i>Functional Plant Biology</i> , <b>2014</b> , 42, 63-83	2.7	16
51	Methods to estimate aboveground wood productivity from long-term forest inventory plots. <i>Forest Ecology and Management</i> , <b>2014</b> , 320, 30-38	3.9	62
50	Fast demographic traits promote high diversification rates of Amazonian trees. <i>Ecology Letters</i> , <b>2014</b> , 17, 527-36	10	48
49	Basin-wide variations in Amazon forest nitrogen-cycling characteristics as inferred from plant and soil 15N:14N measurements. <i>Plant Ecology and Diversity</i> , <b>2014</b> , 7, 173-187	2.2	35
48	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> , <b>2014</b> , 209, 260-270	1.9	11
47	Soil physical conditions limit palm and tree basal area in Amazonian forests. <i>Plant Ecology and Diversity</i> , <b>2014</b> , 7, 215-229	2.2	35
46	Size and frequency of natural forest disturbances and the Amazon forest carbon balance. <i>Nature Communications</i> , <b>2014</b> , 5, 3434	17.4	128
45	Markedly divergent estimates of Amazon forest carbon density from ground plots and satellites. <i>Global Ecology and Biogeography</i> , <b>2014</b> , 23, 935-946	6.1	205
44	Disequilibrium and hyperdynamic tree turnover at the forest-cerrado transition zone in southern Amazonia. <i>Plant Ecology and Diversity</i> , <b>2014</b> , 7, 281-292	2.2	70
43	Diversity, abundance and distribution of lianas of the Cerrado-Amazonian forest transition, Brazil. <i>Plant Ecology and Diversity</i> , <b>2014</b> , 7, 231-240	2.2	7
42	Hyperdominance in the Amazonian tree flora. <i>Science</i> , <b>2013</b> , 342, 1243092	33.3	637
41	On the delineation of tropical vegetation types with an emphasis on forest/savanna transitions. <i>Plant Ecology and Diversity</i> , <b>2013</b> , 6, 101-137	2.2	91
40	Above-ground biomass and structure of 260 African tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 368, 20120295	5.8	204
39	Intensification of the Amazon hydrological cycle over the last two decades. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 1729-1733	4.9	233
38	Variation in soil carbon stocks and their determinants across a precipitation gradient in West Africa. <i>Global Change Biology</i> , <b>2012</b> , 18, 2676-2676	11.4	2

37	Drought-induced shifts in the floristic and functional composition of tropical forests in Ghana. <i>Ecology Letters</i> , <b>2012</b> , 15, 1120-9	10	170
36	What controls tropical forest architecture? Testing environmental, structural and floristic drivers. <i>Global Ecology and Biogeography</i> , <b>2012</b> , 21, 1179-1190	6.1	158
35	The carbon balance of South America: a review of the status, decadal trends and main determinants. <i>Biogeosciences</i> , <b>2012</b> , 9, 5407-5430	4.6	70
34	Tree height integrated into pantropical forest biomass estimates. <i>Biogeosciences</i> , <b>2012</b> , 9, 3381-3403	4.6	289
33	Variation in soil carbon stocks and their determinants across a precipitation gradient in West Africa. <i>Global Change Biology</i> , <b>2012</b> , 18, 1670-1683	11.4	92
32	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> , <b>2011</b> , 115, 2861-2873	13.2	175
31	Height-diameter allometry of tropical forest trees. <i>Biogeosciences</i> , <b>2011</b> , 8, 1081-1106	4.6	311
30	Using learning networks to understand complex systems: a case study of biological, geophysical and social research in the Amazon. <i>Biological Reviews</i> , <b>2011</b> , 86, 457-74	13.5	34
29	Comment on 'A first map of tropical Africa's above-ground biomass derived from satellite imagery'	6.2	27
28	Drought-mortality relationships for tropical forests. <i>New Phytologist</i> , <b>2010</b> , 187, 631-46	9.8	400
27	Co-limitation of photosynthetic capacity by nitrogen and phosphorus in West Africa woodlands. <i>Plant, Cell and Environment</i> , <b>2010</b> , 33, 959-80	8.4	154
26	Calibrating the liana crown occupancy index in Amazonian forests. <i>Forest Ecology and Management</i> , <b>2010</b> , 260, 549-555	3.9	15
25	Does the disturbance hypothesis explain the biomass increase in basin-wide Amazon forest plot data?. <i>Global Change Biology</i> , <b>2009</b> , 15, 2418-2430	11.4	70
24	Nitrogen aboveground turnover and soil stocks to 8 m depth in primary and selectively logged forest in southern Amazonia. <i>Global Change Biology</i> , <b>2009</b> , 16, 1793-1805	11.4	9
23	Increasing carbon storage in intact African tropical forests. <i>Nature</i> , <b>2009</b> , 457, 1003-6	50.4	714
22	Disentangling regional and local tree diversity in the Amazon. <i>Ecography</i> , <b>2009</b> , 32, 46-54	6.5	54
21	Using satellite radar backscatter to predict above-ground woody biomass: A consistent relationship across four different African landscapes. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	176
20	Drought sensitivity of the Amazon rainforest. <i>Science</i> , <b>2009</b> , 323, 1344-7	33.3	1213

19	Patterns of late-season photosynthate movement in sugar maple saplings. <i>Canadian Journal of Forest Research</i> , <b>2009</b> , 39, 2294-2298	1.9	19
18	Water-use efficiency of tree species following calcium and phosphorus application on an abandoned pasture, central Amazonia, Brazil. <i>Environmental and Experimental Botany</i> , <b>2008</b> , 64, 189-195	5.9	20
17	Secondary forest growth deviation from chronosequence predictions in central Amazonia. <i>Global Change Biology</i> , <b>2007</b> , 13, 967-979	11.4	63
16	Relationships between soil hydrology and forest structure and composition in the southern Brazilian Amazon. <i>Journal of Vegetation Science</i> , <b>2007</b> , 18, 183-194	3.1	39
15	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> , <b>2006</b> , 226, 299-309	3.9	70
14	Biomass, harvestable area, and forest structure estimated from commercial timber inventories and remotely sensed imagery in southern Amazonia. <i>Forest Ecology and Management</i> , <b>2006</b> , 233, 121-132	3.9	20
13	Eficiência no uso dos nutrientes por espécies pioneiras crescidas em pastagens degradadas na Amazônia central. <i>Acta Amazonica</i> , <b>2006</b> , 36, 503-512	0.8	12
12	When big trees fall: Damage and carbon export by reduced impact logging in southern Amazonia. <i>Forest Ecology and Management</i> , <b>2005</b> , 219, 199-215	3.9	69
11	Legacy of fire slows carbon accumulation in Amazonian forest regrowth. <i>Frontiers in Ecology and the Environment</i> , <b>2005</b> , 3, 365-369	5.5	97
10	Development of Forest Structure and Leaf Area in Secondary Forests Regenerating on Abandoned Pastures in Central Amazonia. <i>Earth Interactions</i> , <b>2005</b> , 9, 1-22	1.5	30
9	Legacy of fire slows carbon accumulation in Amazonian forest regrowth <b>2005</b> , 3, 365		1
8	ECOLOGICAL RESEARCH IN THE LARGE-SCALE BIOSPHERE/ATMOSPHERE EXPERIMENT IN AMAZONIA: EARLY RESULTS <b>2004</b> , 14, 3-16		113
7	CARBON AND NUTRIENT ACCUMULATION IN SECONDARY FORESTS REGENERATING ON PASTURES IN CENTRAL AMAZONIA <b>2004</b> , 14, 164-176		171
6	Climate defined but not soil-restricted: the distribution of a Neotropical tree through space and time. <i>Plant and Soil</i> , <b>2004</b> , 261, 1-11	4.2	
5	Structural, physiognomic and aboveground biomass variation in savanna-forest transition zones on three continents. How different are co-occurring savanna and forest formations?		8
4	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		4
3	Height-diameter allometry of tropical forest trees		31
2	Tree height integrated into pan-tropical forest biomass estimates		30



1 The carbon balance of South America: status, decadal trends and main determinants

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