

# Hans ter Steege

## List of Publications by Citations

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132  
papers

16,283  
citations

48  
h-index

127  
g-index

147  
ext. papers

19,244  
ext. citations

8.1  
avg. IF

5.72  
L-index

#	Paper	IF	Citations
132	A handbook of protocols for standardised and easy measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , <b>2003</b> , 51, 335	1.2	2483
131	New handbook for standardised measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , <b>2013</b> , 61, 167	1.2	1983
130	Amazonia through time: Andean uplift, climate change, landscape evolution, and biodiversity. <i>Science</i> , <b>2010</b> , 330, 927-31	33.3	1362
129	Drought sensitivity of the Amazon rainforest. <i>Science</i> , <b>2009</b> , 323, 1344-7	33.3	1213
128	Hyperdominance in the Amazonian tree flora. <i>Science</i> , <b>2013</b> , 342, 1243092	33.3	637
127	Long-term decline of the Amazon carbon sink. <i>Nature</i> , <b>2015</b> , 519, 344-8	50.4	583
126	Regional and phylogenetic variation of wood density across 2456 Neotropical tree species <b>2006</b> , 16, 2356-67		520
125	Continental-scale patterns of canopy tree composition and function across Amazonia. <i>Nature</i> , <b>2006</b> , 443, 444-7	50.4	508
124	A null-model for significance testing of presence-only species distribution models. <i>Ecography</i> , <b>2007</b> , 30, 727-736	6.5	316
123	A spatial model of tree diversity and tree density for the Amazon. <i>Biodiversity and Conservation</i> , <b>2003</b> , 12, 2255-2277	3.4	298
122	Tree height integrated into pantropical forest biomass estimates. <i>Biogeosciences</i> , <b>2012</b> , 9, 3381-3403	4.6	289
121	Persistent effects of pre-Columbian plant domestication on Amazonian forest composition. <i>Science</i> , <b>2017</b> , 355, 925-931	33.3	280
120	Large trees drive forest aboveground biomass variation in moist lowland forests across the tropics. <i>Global Ecology and Biogeography</i> , <b>2013</b> , 22, 1261-1271	6.1	280
119	An analysis of the floristic composition and diversity of Amazonian forests including those of the Guiana Shield. <i>Journal of Tropical Ecology</i> , <b>2000</b> , 16, 801-828	1.3	271
118	Diversity enhances carbon storage in tropical forests. <i>Global Ecology and Biogeography</i> , <b>2015</b> , 24, 1314-1828		245
117	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
116	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. <i>Nature</i> , <b>2019</b> , 569, 404-408	50.4	203

115	Diversity and carbon storage across the tropical forest biome. <i>Scientific Reports</i> , <b>2017</b> , 7, 39102	4.9	177
114	Corrigendum to: New handbook for standardised measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , <b>2016</b> , 64, 715	1.2	166
113	Modeling distribution of Amazonian tree species and diversity using remote sensing measurements. <i>Remote Sensing of Environment</i> , <b>2008</b> , 112, 2000-2017	13.2	163
112	Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , <b>2019</b> , 25, 39-56	11.4	158
111	Hyperdominance in Amazonian forest carbon cycling. <i>Nature Communications</i> , <b>2015</b> , 6, 6857	17.4	157
110	Colloquium paper: how many tree species are there in the Amazon and how many of them will go extinct?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105 Suppl 1, 11498-504	11.5	157
109	CHARACTER CONVERGENCE, DIVERSITY, AND DISTURBANCE IN TROPICAL RAIN FOREST IN GUYANA. <i>Ecology</i> , <b>2001</b> , 82, 3197-3212	4.6	152
108	Amazon forest response to repeated droughts. <i>Global Biogeochemical Cycles</i> , <b>2016</b> , 30, 964-982	5.9	149
107	Why Do Some Tropical Forests Have So Many Species of Trees?. <i>Biotropica</i> , <b>2004</b> , 36, 447-473	2.3	149
106	Why Do Some Tropical Forests Have So Many Species of Trees?1. <i>Biotropica</i> , <b>2004</b> , 36, 447	2.3	139
105	Distribution and Ecology of Vascular Epiphytes in Lowland Rain Forest of Guyana. <i>Biotropica</i> , <b>1989</b> , 21, 331	2.3	125
104	Distribution and ecology of epiphytic bryophytes and lichens in dry evergreen forest of Guyana. <i>Journal of Tropical Ecology</i> , <b>1989</b> , 5, 131-150	1.3	124
103	Botanical richness and endemism patterns of Borneo derived from species distribution models. <i>Ecography</i> , <b>2009</b> , 32, 180-192	6.5	118
102	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
101	The odd man out? Might climate explain the lower tree diversity of African rain forests relative to Amazonian rain forests?. <i>Journal of Ecology</i> , <b>2007</b> , 95, 1058-1071	6	99
100	Seasonal drought limits tree species across the Neotropics. <i>Ecography</i> , <b>2017</b> , 40, 618-629	6.5	93
99	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , <b>2020</b> , 368, 869-874	33.3	92
98	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

97	The phenology of Guyanese timber species: a compilation of a century of observations. <i>Plant Ecology</i> , <b>1991</b> , 95, 177-198		85
96	Species Distribution Modelling: Contrasting presence-only models with plot abundance data. <i>Scientific Reports</i> , <b>2018</b> , 8, 1003	4.9	78
95	Reply to Feeley and Silman: Extinction risk estimates are approximations but are not invalid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, E122-E122	11.5	78
94	Tropical rain forest types and soil factors in a watershed area in Guyana. <i>Journal of Vegetation Science</i> , <b>1993</b> , 4, 705-716	3.1	77
93	The discovery of the Amazonian tree flora with an updated checklist of all known tree taxa. <i>Scientific Reports</i> , <b>2016</b> , 6, 29549	4.9	70
92	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
91	Conceptual and empirical advances in Neotropical biodiversity research. <i>PeerJ</i> , <b>2018</b> , 6, e5644	3.1	70
90	Amazonian tree species threatened by deforestation and climate change. <i>Nature Climate Change</i> , <b>2019</b> , 9, 547-553	21.4	66
89	Niche assembly of epiphytic bryophyte communities in the Guianas: a regional approach. <i>Journal of Biogeography</i> , <b>2009</b> , 36, 2076-2084	4.1	58
88	Phylogenetic diversity of Amazonian tree communities. <i>Diversity and Distributions</i> , <b>2015</b> , 21, 1295-1307	5	56
87	Disentangling regional and local tree diversity in the Amazon. <i>Ecography</i> , <b>2009</b> , 32, 46-54	6.5	54
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	Fast demographic traits promote high diversification rates of Amazonian trees. <i>Ecology Letters</i> , <b>2014</b> , 17, 527-36	10	48
84	A model of botanical collectors behavior in the field: never the same species twice. <i>American Journal of Botany</i> , <b>2011</b> , 98, 31-7	2.7	46
83	Propensity for Fire in Guianan Rainforests. <i>Conservation Biology</i> , <b>1998</b> , 12, 944-947	6	42
82	Towards a dynamic list of Amazonian tree species. <i>Scientific Reports</i> , <b>2019</b> , 9, 3501	4.9	41
81	Upland Soil Charcoal in the Wet Tropical Forests of Central Guyana. <i>Biotropica</i> , <b>2007</b> , 39, 153-160	2.3	41
80	A compilation of known Guianan timber trees and the significance of their dispersal mode, seed size and taxonomic affinity to tropical rain forest management. <i>Forest Ecology and Management</i> , <b>1996</b> , 83, 99-116	3.9	41

79	Patterns and Determinants of Floristic Variation across Lowland Forests of Bolivia. <i>Biotropica</i> , <b>2011</b> , 43, 405-413	2.3	37
78	Bryophyte communities in the Amazon forest are regulated by height on the host tree and site elevation. <i>Journal of Ecology</i> , <b>2015</b> , 103, 441-450	6	36
77	Low Phylogenetic Beta Diversity and Geographic Neo-endemism in Amazonian White-sand Forests. <i>Biotropica</i> , <b>2016</b> , 48, 34-46	2.3	36
76	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
75	Coordination of physiological and structural traits in Amazon forest trees. <i>Biogeosciences</i> , <b>2012</b> , 9, 775-806	4.6	34
74	Tree communities of white-sand and terra-firme forests of the upper Rio Negro. <i>Acta Amazonica</i> , <b>2011</b> , 41, 521-544	0.8	34
73	Flooding and drought tolerance in seeds and seedlings of two <i>Mora</i> species segregated along a soil hydrological gradient in the tropical rain forest of Guyana. <i>Oecologia</i> , <b>1994</b> , 100, 356-367	2.9	33
72	Long-term effect of timber harvesting in the Bartica Triangle, Central Guyana. <i>Forest Ecology and Management</i> , <b>2002</b> , 170, 127-144	3.9	32
71	The effects of man made gaps on germination, early survival, and morphology of <i>Chlorocardium rodiei</i> seedlings in Guyana. <i>Journal of Tropical Ecology</i> , <b>1994</b> , 10, 245-260	1.3	31
70	Tree height integrated into pan-tropical forest biomass estimates		30
69	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
68	Spatial trends in leaf size of Amazonian rainforest trees. <i>Biogeosciences</i> , <b>2009</b> , 6, 1563-1576	4.6	29
67	Evolutionary heritage influences Amazon tree ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,	4.4	29
66	Finding needles in the haystack: where to look for rare species in the American tropics. <i>Ecography</i> , <b>2018</b> , 41, 321-330	6.5	26
65	The erosion of biodiversity and biomass in the Atlantic Forest biodiversity hotspot. <i>Nature Communications</i> , <b>2020</b> , 11, 6347	17.4	26
64	Water availability drives gradients of tree diversity, structure and functional traits in the Atlantic <u>Terrado</u> <u>Caatinga</u> transition, Brazil. <i>Journal of Plant Ecology</i> , <b>2018</b> , 11, 803-814	1.7	25
63	Are all species necessary to reveal ecologically important patterns?. <i>Ecology and Evolution</i> , <b>2014</b> , 4, 4626-4636	2.3	25
62	Biased-corrected richness estimates for the Amazonian tree flora. <i>Scientific Reports</i> , <b>2020</b> , 10, 10130	4.9	24

61	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
60	The use of forest inventory data for a National Protected Area Strategy in Guyana. <i>Biodiversity and Conservation</i> , <b>1998</b> , 7, 1457-1483	3.4	24
59	Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , <b>2020</b> , 11, 5515	17.4	24
58	Can botanical collections assist in a National Protected Area Strategy in Guyana?. <i>Biodiversity and Conservation</i> , <b>2000</b> , 9, 215-240	3.4	23
57	The global abundance of tree palms. <i>Global Ecology and Biogeography</i> , <b>2020</b> , 29, 1495-1514	6.1	21
56	Origins of Biodiversity--Response. <i>Science</i> , <b>2011</b> , 331, 399-400	33.3	21
55	Are compound leaves an adaptation to seasonal drought or to rapid growth? Evidence from the Amazon rain forest. <i>Global Ecology and Biogeography</i> , <b>2010</b> , 19, 852-862	6.1	20
54	Spatial distribution and functional significance of leaf lamina shape in Amazonian forest trees. <i>Biogeosciences</i> , <b>2009</b> , 6, 1577-1590	4.6	20
53	Rarity of monodominance in hyperdiverse Amazonian forests. <i>Scientific Reports</i> , <b>2019</b> , 9, 13822	4.9	19
52	Floristic overview of the epiphytic bryophytes of terra firme forests across the Amazon basin. <i>Acta Botanica Brasilica</i> , <b>2013</b> , 27, 347-363	1	18
51	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
50	Drip-tips are Associated with Intensity of Precipitation in the Amazon Rain Forest. <i>Biotropica</i> , <b>2012</b> , 44, 728-737	2.3	17
49	Composition of Woody Species in a DynamicforestWoodlandSavannah Mosaic in Uganda: Implications for Conservation and Management. <i>Biodiversity and Conservation</i> , <b>2006</b> , 15, 1467-1495	3.4	16
48	Taking the pulse of Earth's tropical forests using networks of highly distributed plots. <i>Biological Conservation</i> , <b>2021</b> , 260, 108849	6.2	15
47	Basic and Applied Research for Sound Rain Forest Management in Guyana <b>1995</b> , 5, 904-910		14
46	Consistent, small effects of treefall disturbances on the composition and diversity of four Amazonian forests. <i>Journal of Ecology</i> , <b>2016</b> , 104, 497-506	6	14
45	Response to Comment on "Persistent effects of pre-Columbian plant domestication on Amazonian forest composition". <i>Science</i> , <b>2017</b> , 358,	33.3	13
44	Tree dominance and diversity in Minas Gerais, Brazil. <i>Biodiversity and Conservation</i> , <b>2017</b> , 26, 2133-2153	3.4	12

43	Going north and south: The biogeographic history of two Malvaceae in the wake of Neogene Andean uplift and connectivity between the Americas. <i>Review of Palaeobotany and Palynology</i> , <b>2019</b> , 264, 90-109	1.7	12
42	The shadow of the Balbina dam: A synthesis of over 35 years of downstream impacts on floodplain forests in Central Amazonia. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , <b>2021</b> , 31, 1117-1135	3.6	12
41	Estimating species richness in hyper-diverse large tree communities. <i>Ecology</i> , <b>2017</b> , 98, 1444-1454	4.6	11
40	Additions to the Catalogue of Hepaticae of Colombia II. <i>Cryptogamie, Bryologie</i> , <b>2014</b> , 35, 77-92	0.8	10
39	Changes in woody plant composition of three vegetation types exposed to a similar fire regime for over 46 years. <i>Forest Ecology and Management</i> , <b>2005</b> , 217, 351-364	3.9	10
38	The pitfalls of biodiversity proxies: Differences in richness patterns of birds, trees and understudied diversity across Amazonia. <i>Scientific Reports</i> , <b>2019</b> , 9, 19205	4.9	10
37	Carbon-diversity hotspots and their owners in Brazilian southeastern Savanna, Atlantic Forest and Semi-Arid Woodland domains. <i>Forest Ecology and Management</i> , <b>2019</b> , 452, 117575	3.9	9
36	The Possible function of Buttresses in <i>Caryocar Nuciferum</i> (Caryocaraceae) in Guyana: Ecological and Wood Anatomical Observations. <i>IAWA Journal</i> , <b>1997</b> , 18, 415-431	2.3	9
35	Single Rope Techniques in Tropical Rain Forest Trees: Going Down Safe and Sound1. <i>Biotropica</i> , <b>1998</b> , 30, 496-497	2.3	9
34	CHARACTER CONVERGENCE, DIVERSITY, AND DISTURBANCE IN TROPICAL RAIN FOREST IN GUYANA <b>2001</b> , 82, 3197		9
33	Incorporating phylogenetic information for the definition of floristic districts in hyperdiverse Amazon forests: Implications for conservation. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 9639-9650	2.8	8
32	How Neutral is Ecology?. <i>Biotropica</i> , <b>2010</b> , 42, 631-633	2.3	8
31	Herbivory and habitat association of tree seedlings in lowland evergreen rainforest on white-sand and terra-firme in the upper Rio Negro. <i>Plant Ecology and Diversity</i> , <b>2014</b> , 7, 255-265	2.2	7
30	Forest conservation: Humans handprints. <i>Science</i> , <b>2017</b> , 355, 466-467	33.3	6
29	Composition, diversity and structure of vascular epiphytes in two contrasting Central Amazonian floodplain ecosystems. <i>Acta Botanica Brasilica</i> , <b>2017</b> , 31, 686-697	1	6
28	THE EPIPHYTIC BRYOPHYTE FLORA OF THE COLOMBIAN AMAZON. <i>Caldasia</i> , <b>2015</b> , 37, 47	0.4	6
27	Will Tropical Biodiversity Survive our Approach to Global Change?. <i>Biotropica</i> , <b>2010</b> , 42, 561-562	2.3	6
26	Species abundance, distribution and diversity in time and space after centuries of botanical collecting in the Guianas. <i>Taxon</i> , <b>2010</b> , 59, 592-597	0.8	6

25	The role of recruitment and dispersal limitation in tree community assembly in Amazonian forests. <i>Plant Ecology and Diversity</i> , <b>2018</b> , 11, 1-12	2.2	6
24	Vertical distribution and diversity of epiphytic bryophytes in the Colombian Amazon. <i>Journal of Bryology</i> , <b>2019</b> , 41, 328-340	1.1	5
23	Contribution of Current and Historical Processes to Patterns of Tree Diversity and Composition of the Amazon <b>2011</b> , 347-359		5
22	Spatial trends in leaf size of Amazonian rainforest trees		5
21	Defining endemism levels for biodiversity conservation: Tree species in the Atlantic Forest hotspot. <i>Biological Conservation</i> , <b>2020</b> , 252, 108825	6.2	5
20	Amazon tree dominance across forest strata. <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 757-767	12.3	5
19	Scaling issues of neutral theory reveal violations of ecological equivalence for dominant Amazonian tree species. <i>Ecology Letters</i> , <b>2019</b> , 22, 1072-1082	10	4
18	Modelling the distribution of Amazonian tree species in response to long-term climate change during the Mid-Late Holocene. <i>Journal of Biogeography</i> , <b>2020</b> , 47, 1530-1540	4.1	4
17	Spatial distribution and functional significance of leaf lamina shape in Amazonian forest trees		4
16	Estimating and interpreting migration of Amazonian forests using spatially implicit and semi-explicit neutral models. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 4254-4265	2.8	3
15	Extinction threat to neglected <i>Plinia edulis</i> exacerbated by climate change, yet likely mitigated by conservation through sustainable use. <i>Austral Ecology</i> , <b>2020</b> , 45, 376-383	1.5	3
14	Species richness, composition, and spatial distribution of vascular epiphytes in Amazonian black-water floodplain forests. <i>Biodiversity and Conservation</i> , <b>2018</b> , 27, 1981-2002	3.4	3
13	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
12	Climate change threatens native potential agroforestry plant species in Brazil.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2267	4.9	2
11	CHARACTER CONVERGENCE, DIVERSITY, AND DISTURBANCE IN TROPICAL RAIN FOREST IN GUYANA <b>2001</b> , 82, 3197		2
10	Propensity for Fire in Guianan Rainforests <b>1998</b> , 12, 944		2
9	Modeling the Ecological Responses of Tree Species to the Flood Pulse of the Amazon Negro River Floodplains. <i>Frontiers in Ecology and Evolution</i> , <b>2021</b> , 9,	3.7	2
8	The contribution of environmental and dispersal filters on phylogenetic and taxonomic beta diversity patterns in Amazonian tree communities. <i>Oecologia</i> , <b>2021</b> , 196, 1119-1137	2.9	2



7	Trees of Amazonian Ecuador: a taxonomically verified species list with data on abundance and distribution. <i>Ecology</i> , <b>2019</b> , 100, e02894	4.6	1
6	The ecological biogeography of Amazonia. <i>Frontiers of Biogeography</i> , <b>2013</b> , 5,	2.9	1
5	Coordination of physiological and structural traits in Amazon forest trees		1
4	Soil Fungal Community Composition Correlates with Site-Specific Abiotic Factors, Tree Community Structure, and Forest Age in Regenerating Tropical Rainforests. <i>Biology</i> , <b>2021</b> , 10,	4.9	1
3	Defining endemism levels for biodiversity conservation: tree species in the Atlantic Forest hotspot		1
2	Eighty-four per cent of all Amazonian arboreal plant individuals are useful to humans. <i>PLoS ONE</i> , <b>2021</b> , 16, e0257875	3.7	0
1	Relationships between species richness and ecosystem services in Amazonian forests strongly influenced by biogeographical strata and forest types.. <i>Scientific Reports</i> , <b>2022</b> , 12, 5960	4.9	0