Hans ter Steege

List of Publications by Year
in descending order

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135 papers	21,951 citations	36203 51 h-index	15683 125 g-index
147 all docs	147 docs citations	147 times ranked	21238 citing authors

#	Article	IF	Citations
1	A handbook of protocols for standardised and easy measurement of plant functional traits worldwide. Australian Journal of Botany, 2003, 51, 335.	0.3	3,071
2	New handbook for standardised measurement of plant functional traits worldwide. Australian Journal of Botany, 2013, 61, 167.	0.3	2,818
3	Amazonia Through Time: Andean Uplift, Climate Change, Landscape Evolution, and Biodiversity. Science, 2010, 330, 927-931.	6.0	1,826
4	Drought Sensitivity of the Amazon Rainforest. Science, 2009, 323, 1344-1347.	6.0	1,443
5	Hyperdominance in the Amazonian Tree Flora. Science, 2013, 342, 1243092.	6.0	873
6	Long-term decline of the Amazon carbon sink. Nature, 2015, 519, 344-348.	13.7	796
7	REGIONAL AND PHYLOGENETIC VARIATION OF WOOD DENSITY ACROSS 2456 NEOTROPICAL TREE SPECIES. , 2006, 16, 2356-2367.		632
8	Continental-scale patterns of canopy tree composition and function across Amazonia. Nature, 2006, 443, 444-447.	13.7	593
9	Persistent effects of pre-Columbian plant domestication on Amazonian forest composition. Science, 2017, 355, 925-931.	6.0	443
10	A nullâ€model for significance testing of presenceâ€only species distribution models. Ecography, 2007, 30, 727-736.	2.1	403
11	Tree height integrated into pantropical forest biomass estimates. Biogeosciences, 2012, 9, 3381-3403.	1.3	373
12	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. Nature, 2019, 569, 404-408.	13.7	371
13	Diversity enhances carbon storage in tropical forests. Global Ecology and Biogeography, 2015, 24, 1314-1328.	2.7	366
14	Large trees drive forest aboveground biomass variation in moist lowland forests across the tropics. Global Ecology and Biogeography, 2013, 22, 1261-1271.	2.7	365
15	Corrigendum to: New handbook for standardised measurement of plant functional traits worldwide. Australian Journal of Botany, 2016, 64, 715.	0.3	361
16	A spatial model of tree Î±-diversity and tree density for the Amazon. Biodiversity and Conservation, 2003, 12, 2255-2277.	1.2	348
17	An analysis of the floristic composition and diversity of Amazonian forests including those of the Guiana Shield. Journal of Tropical Ecology, 2000, 16, 801-828.	0.5	300
18	Compositional response of Amazon forests to climate change. Global Change Biology, 2019, 25, 39-56.	4.2	265

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19	Diversity and carbon storage across the tropical forest biome. Scientific Reports, 2017, 7, 39102.	1.6	251
20	Markedly divergent estimates of <scp>A</scp>mazon forest carbon density from ground plots and satellites. Global Ecology and Biogeography, 2014, 23, 935-946.	2.7	248
21	How many tree species are there in the Amazon and how many of them will go extinct?. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11498-11504.	3.3	232
22	Hyperdominance in Amazonian forest carbon cycling. Nature Communications, 2015, 6, 6857.	5.8	214
23	Modeling distribution of Amazonian tree species and diversity using remote sensing measurements. Remote Sensing of Environment, 2008, 112, 2000-2017.	4.6	202
24	Amazon forest response to repeated droughts. Global Biogeochemical Cycles, 2016, 30, 964-982.	1.9	201
25	Long-term thermal sensitivity of Earthâ€™s tropical forests. Science, 2020, 368, 869-874.	6.0	198
26	CHARACTER CONVERGENCE, DIVERSITY, AND DISTURBANCE IN TROPICAL RAIN FOREST IN GUYANA. Ecology, 2001, 82, 3197-3212.	1.5	193
27	Distribution and Ecology of Vascular Epiphytes in Lowland Rain Forest of Guyana. Biotropica, 1989, 21, 331.	0.8	182
28	Why Do Some Tropical Forests Have So Many Species of Trees?1. Biotropica, 2004, 36, 447.	0.8	176
29	Why Do Some Tropical Forests Have So Many Species of Trees?. Biotropica, 2004, 36, 447-473.	0.8	156
30	Distribution and ecology of epiphytic bryophytes and lichens in dry evergreen forest of Guyana. Journal of Tropical Ecology, 1989, 5, 131-150.	0.5	154
31	Botanical richness and endemicity patterns of Borneo derived from species distribution models. Ecography, 2009, 32, 180-192.	2.1	149
32	Seasonal drought limits tree species across the Neotropics. Ecography, 2017, 40, 618-629.	2.1	143
33	Estimating the global conservation status of more than 15,000 Amazonian tree species. Science Advances, 2015, 1, e1500936.	4.7	122
34	Variation in stem mortality rates determines patterns of aboveâ€ground biomass in <scp>A</scp>mazonian forests: implications for dynamic global vegetation models. Global Change Biology, 2016, 22, 3996-4013.	4.2	116
35	The odd man out? Might climate explain the lower tree Î±â€diversity of African rain forests relative to Amazonian rain forests?. Journal of Ecology, 2007, 95, 1058-1071.	1.9	115
36	Species Distribution Modelling: Contrasting presence-only models with plot abundance data. Scientific Reports, 2018, 8, 1003.	1.6	113

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37	The discovery of the Amazonian tree flora with an updated checklist of all known tree taxa. Scientific Reports, 2016, 6, 29549.	1.6	107
38	Conceptual and empirical advances in Neotropical biodiversity research. PeerJ, 2018, 6, e5644.	0.9	107
39	Amazonian tree species threatened by deforestation and climate change. Nature Climate Change, 2019, 9, 547-553.	8.1	105
40	The phenology of Guyanese timber species: a compilation of a century of observations. Plant Ecology, 1991, 95, 177-198.	1.2	102
41	Tropical rain forest types and soil factors in a watershed area in Guyana. Journal of Vegetation Science, 1993, 4, 705-716.	1.1	94
42	The erosion of biodiversity and biomass in the Atlantic Forest biodiversity hotspot. Nature Communications, 2020, 11, 6347.	5.8	81
43	Panâ€tropical prediction of forest structure from the largest trees. Global Ecology and Biogeography, 2018, 27, 1366-1383.	2.7	78
44	Does the disturbance hypothesis explain the biomass increase in basinâ€wide Amazon forest plot data?. Global Change Biology, 2009, 15, 2418-2430.	4.2	74
45	Niche assembly of epiphytic bryophyte communities in the Guianas: a regional approach. Journal of Biogeography, 2009, 36, 2076-2084.	1.4	74
46	Phylogenetic diversity of Amazonian tree communities. Diversity and Distributions, 2015, 21, 1295-1307.	1.9	72
47	Taking the pulse of Earth's tropical forests using networks of highly distributed plots. Biological Conservation, 2021, 260, 108849.	1.9	71
48	Fast demographic traits promote high diversification rates of Amazonian trees. Ecology Letters, 2014, 17, 527-536.	3.0	63
49	A model of botanical collectors' behavior in the field: Never the same species twice. American Journal of Botany, 2011, 98, 31-37.	0.8	62
50	Tree mode of death and mortality risk factors across Amazon forests. Nature Communications, 2020, 11, 5515.	5.8	62
51	The global abundance of tree palms. Global Ecology and Biogeography, 2020, 29, 1495-1514.	2.7	62
52	Disentangling regional and local tree diversity in the Amazon. Ecography, 2009, 32, 46-54.	2.1	61
53	Competition influences tree growth, but not mortality, across environmental gradients in Amazonia and tropical Africa. Ecology, 2020, 101, e03052.	1.5	57
54	Towards a dynamic list of Amazonian tree species. Scientific Reports, 2019, 9, 3501.	1.6	54

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55	Biased-corrected richness estimates for the Amazonian tree flora. Scientific Reports, 2020, 10, 10130.	1.6	53
56	Low Phylogenetic Beta Diversity and Geographic Neoâ€endemism in Amazonian Whiteâ€sand Forests. Biotropica, 2016, 48, 34-46.	0.8	52
57	Flooding and drought tolerance in seeds and seedlings of two Mora species segregated along a soil hydrological gradient in the tropical rain forest of Guyana. Oecologia, 1994, 100, 356-367.	0.9	50
58	A compilation of known Guianan timber trees and the significance of their dispersal mode, seed size and taxonomic affinity to tropical rain forest management. Forest Ecology and Management, 1996, 83, 99-116.	1.4	50
59	Tree communities of white-sand and terra-firme forests of the upper Rio Negro. Acta Amazonica, 2011, 41, 521-544.	0.3	49
60	Upland Soil Charcoal in the Wet Tropical Forests of Central Guyana. Biotropica, 2007, 39, 153-160.	0.8	48
61	Propensity for Fire in Guianan Rainforests. Conservation Biology, 1998, 12, 944-947.	2.4	45
62	Coordination of physiological and structural traits in Amazon forest trees. Biogeosciences, 2012, 9, 775-801.	1.3	45
63	Soil physical conditions limit palm and tree basal area in Amazonian forests. Plant Ecology and Diversity, 2014, 7, 215-229.	1.0	45
64	Bryophyte communities in the Amazon forest are regulated by height on the host tree and site elevation. Journal of Ecology, 2015, 103, 441-450.	1.9	44
65	The Forest Observation System, building a global reference dataset for remote sensing of forest biomass. Scientific Data, 2019, 6, 198.	2.4	44
66	Evolutionary heritage influences Amazon tree ecology. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20161587.	1.2	43
67	Patterns and Determinants of Floristic Variation across Lowland Forests of Bolivia. Biotropica, 2011, 43, 405-413.	0.8	41
68	Water availability drives gradients of tree diversity, structure and functional traits in the Atlanticâ€“Cerradoâ€“Caatinga transition, Brazil. Journal of Plant Ecology, 2018, 11, 803-814.	1.2	41
69	The shadow of the Balbina dam: A synthesis of over 35 years of downstream impacts on floodplain forests in Central Amazonia. Aquatic Conservation: Marine and Freshwater Ecosystems, 2021, 31, 1117-1135.	0.9	40
70	The effects of man made gaps on germination, early survival, and morphology ofChlorocardium rodieiseedlings in Guyana. Journal of Tropical Ecology, 1994, 10, 245-260.	0.5	39
71	Are all species necessary to reveal ecologically important patterns?. Ecology and Evolution, 2014, 4, 4626-4636.	0.8	37
72	Can botanical collections assist in a National Protected Area Strategy in Guyana?. Biodiversity and Conservation, 2000, 9, 215-240.	1.2	36

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73	Finding needles in the haystack: where to look for rare species in the American tropics. Ecography, 2018, 41, 321-330.	2.1	36
74	Long-term effect of timber harvesting in the Bartica Triangle, Central Guyana. Forest Ecology and Management, 2002, 170, 127-144.	1.4	35
75	The use of forest inventory data for a National Protected Area Strategy in Guyana. Biodiversity and Conservation, 1998, 7, 1457-1483.	1.2	32
76	Are compound leaves an adaptation to seasonal drought or to rapid growth? Evidence from the Amazon rain forest. Global Ecology and Biogeography, 2010, 19, 852-862.	2.7	32
77	Evolutionary diversity is associated with wood productivity in Amazonian forests. Nature Ecology and Evolution, 2019, 3, 1754-1761.	3.4	32
78	Spatial trends in leaf size of Amazonian rainforest trees. Biogeosciences, 2009, 6, 1563-1576.	1.3	31
79	Floristic overview of the epiphytic bryophytes of terra firme forests across the Amazon basin. Acta Botanica Brasilica, 2013, 27, 347-363.	0.8	29
80	Rarity of monodominance in hyperdiverse Amazonian forests. Scientific Reports, 2019, 9, 13822.	1.6	28
81	Amazon tree dominance across forest strata. Nature Ecology and Evolution, 2021, 5, 757-767.	3.4	27
82	Spatial distribution and functional significance of leaf lamina shape in Amazonian forest trees. Biogeosciences, 2009, 6, 1577-1590.	1.3	25
83	Dripâ€tips are Associated with Intensity of Precipitation in the Amazon Rain Forest. Biotropica, 2012, 44, 728-737.	0.8	25
84	Origins of Biodiversityâ€"Response. Science, 2011, 331, 399-400.	6.0	23
85	The pitfalls of biodiversity proxies: Differences in richness patterns of birds, trees and understudied diversity across Amazonia. Scientific Reports, 2019, 9, 19205.	1.6	23
86	Density and diversity. Nature, 2002, 417, 698-699.	13.7	21
87	Response to Comment on â€œPersistent effects of pre-Columbian plant domestication on Amazonian forest compositionâ€• Science, 2017, 358, .	6.0	21
88	Going north and south: The biogeographic history of two Malvaceae in the wake of Neogene Andean uplift and connectivity between the Americas. Review of Palaeobotany and Palynology, 2019, 264, 90-109.	0.8	21
89	Basic and Applied Research for Sound Rain Forest Management in Guyana. , 1995, 5, 904-910.		20
90	Carbon-diversity hotspots and their owners in Brazilian southeastern Savanna, Atlantic Forest and Semi-Arid Woodland domains. Forest Ecology and Management, 2019, 452, 117575.	1.4	19

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91	Tree dominance and diversity in Minas Gerais, Brazil. Biodiversity and Conservation, 2017, 26, 2133-2153.	1.2	18
92	Climate change threatens native potential agroforestry plant species in Brazil. Scientific Reports, 2022, 12, 2267.	1.6	18
93	Making forest data fair and open. Nature Ecology and Evolution, 2022, 6, 656-658.	3.4	18
94	Composition of Woody Species in a Dynamicforestâ€“woodlandâ€“savannah Mosaic in Uganda: Implications for Conservation and Management. Biodiversity and Conservation, 2006, 15, 1467-1495.	1.2	17
95	Estimating species richness in hyperâ€diverse large tree communities. Ecology, 2017, 98, 1444-1454.	1.5	17
96	Water table depth modulates productivity and biomass across Amazonian forests. Global Ecology and Biogeography, 2022, 31, 1571-1588.	2.7	17
97	Forest conservation: Humans' handprints. Science, 2017, 355, 466-467.	6.0	16
98	Consistent, small effects of treefall disturbances on the composition and diversity of four Amazonian forests. Journal of Ecology, 2016, 104, 497-506.	1.9	15
99	Defining endemism levels for biodiversity conservation: Tree species in the Atlantic Forest hotspot. Biological Conservation, 2020, 252, 108825.	1.9	15
100	Incorporating phylogenetic information for the definition of floristic districts in hyperdiverse Amazon forests: Implications for conservation. Ecology and Evolution, 2017, 7, 9639-9650.	0.8	14
101	CHARACTER CONVERGENCE, DIVERSITY, AND DISTURBANCE IN TROPICAL RAIN FOREST IN GUYANA. , 2001, 82, 3197.		14
102	Additions to the Catalogue of Hepaticae of Colombia II. Cryptogamie, Bryologie, 2014, 35, 77-92.	0.1	13
103	THE EPIPHYTIC BRYOPHYTE FLORA OF THE COLOMBIAN AMAZON. Caldasia, 2015, 37, 47.	0.1	13
104	Modeling the Ecological Responses of Tree Species to the Flood Pulse of the Amazon Negro River Floodplains. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	13
105	The Possible function of Buttresses in Caryocar Nuciferum (Caryocaraceae) in Guyana: Ecological and Wood Anatomical Observations. IAWA Journal, 1997, 18, 415-431.	2.7	12
106	Changes in woody plant composition of three vegetation types exposed to a similar fire regime for over 46 years. Forest Ecology and Management, 2005, 217, 351-364.	1.4	12
107	Vertical distribution and diversity of epiphytic bryophytes in the Colombian Amazon. Journal of Bryology, 2019, 41, 328-340.	0.4	12
108	Soil Fungal Community Composition Correlates with Site-Specific Abiotic Factors, Tree Community Structure, and Forest Age in Regenerating Tropical Rainforests. Biology, 2021, 10, 1120.	1.3	12

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109	Contribution of Current and Historical Processes to Patterns of Tree Diversity and Composition of the Amazon. , 2011, , 347-359.		11
110	Herbivory and habitat association of tree seedlings in lowland evergreen rainforest on white-sand and terra-firme in the upper Rio Negro. Plant Ecology and Diversity, 2014, 7, 255-265.	1.0	10
111	Composition, diversity and structure of vascular epiphytes in two contrasting Central Amazonian floodplain ecosystems. Acta Botanica Brasilica, 2017, 31, 686-697.	0.8	10
112	The role of recruitment and dispersal limitation in tree community assembly in Amazonian forests. Plant Ecology and Diversity, 2018, 11, 1-12.	1.0	10
113	Modelling the distribution of Amazonian tree species in response to longâ€term climate change during the Midâ€Late Holocene. Journal of Biogeography, 2020, 47, 1530-1540.	1.4	10
114	Eighty-four per cent of all Amazonian arboreal plant individuals are useful to humans. PLoS ONE, 2021, 16, e0257875.	1.1	10
115	Single Rope Techniques in Tropical Rain Forest Trees: Going Down Safe and Sound1. Biotropica, 1998, 30, 496-497.	0.8	9
116	How Neutral is Ecology?. Biotropica, 2010, 42, 631-633.	0.8	8
117	Will Tropical Biodiversity Survive our Approach to Global Change?. Biotropica, 2010, 42, 561-562.	0.8	7
118	Species abundance, distribution and diversity in time and space after centuries of botanical collecting in the Guianas. Taxon, 2010, 59, 592-597.	0.4	7
119	Species richness, composition, and spatial distribution of vascular epiphytes in Amazonian black-water floodplain forests. Biodiversity and Conservation, 2018, 27, 1981-2002.	1.2	7
120	Scaling issues of neutral theory reveal violations of ecological equivalence for dominant Amazonian tree species. Ecology Letters, 2019, 22, 1072-1082.	3.0	7
121	The contribution of environmental and dispersal filters on phylogenetic and taxonomic beta diversity patterns in Amazonian tree communities. Oecologia, 2021, 196, 1119-1137.	0.9	7
122	Trees of Amazonian Ecuador: a taxonomically verified species list with data on abundance and distribution. Ecology, 2019, 100, e02894.	1.5	6
123	Does soil pyrogenic carbon determine plant functional traits in Amazon Basin forests?. Plant Ecology, 2017, 218, 1047-1062.	0.7	5
124	Extinction threat to neglected Plinia edulis exacerbated by climate change, yet likely mitigated by conservation through sustainable use. Austral Ecology, 2020, 45, 376-383.	0.7	5
125	plantR: An R package and workflow for managing species records from biological collections. Methods in Ecology and Evolution, 2023, 14, 332-339.	2.2	5
126	The Amazon Epiphyte Network: A First Glimpse Into Continental-Scale Patterns of Amazonian Vascular Epiphyte Assemblages. Frontiers in Forests and Global Change, 0, 5, .	1.0	5

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127	The ecological biogeography of Amazonia. Frontiers of Biogeography, 2013, 5, .	0.8	3
128	Estimating and interpreting migration of Amazonian forests using spatially implicit and semiâ€explicit neutral models. Ecology and Evolution, 2017, 7, 4254-4265.	0.8	3
129	Chapter 4: Amazonian ecosystems and their ecological functions. , 2021, , .		3
130	Propensity for Fire in Guianan Rainforests. Conservation Biology, 1998, 12, 944-947.	2.4	2
131	CHARACTER CONVERGENCE, DIVERSITY, AND DISTURBANCE IN TROPICAL RAIN FOREST IN GUYANA. , 2001, 82, 3197.		2
132	RAP Bulletin of Biological Assessment: A Rapid Biological Assessment of the Lely and Nassau Plateaus, Suriname (with additional information on the Brownsberg Plateau). , 2007, , 5-274.		1
133	Relationships between species richness and ecosystem services in Amazonian forests strongly influenced by biogeographical strata and forest types. Scientific Reports, 2022, 12, 5960.	1.6	1
134	Reply to Feeley and Silman: Extinction risk estimates are approximations but are not invalid. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, .	3.3	0
135	On the 80th birthday of Paul J.M. Maas. Blumea: Journal of Plant Taxonomy and Plant Geography, 2019, 64, i-ii.	0.1	0