

# Jill Thompson

## List of Publications by Citations

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91  
papers

7,020  
citations

39  
h-index

83  
g-index

97  
ext. papers

8,243  
ext. citations

6.5  
avg, IF

5.16  
L-index

#	Paper	IF	Citations
91	Loss of foundation species: consequences for the structure and dynamics of forested ecosystems. <i>Frontiers in Ecology and the Environment</i> , <b>2005</b> , 3, 479-486	5.5	1201
90	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , <b>2016</b> , 529, 204-7	50.4	453
89	CTFS-ForestGEO: a worldwide network monitoring forests in an era of global change. <i>Global Change Biology</i> , <b>2015</b> , 21, 528-49	11.4	368
88	The problem and promise of scale dependency in community phylogenetics. <i>Ecology</i> , <b>2006</b> , 87, 2418-24	4.6	254
87	Diversity enhances carbon storage in tropical forests. <i>Global Ecology and Biogeography</i> , <b>2015</b> , 24, 1314-1328		245
86	Testing metabolic ecology theory for allometric scaling of tree size, growth and mortality in tropical forests. <i>Ecology Letters</i> , <b>2006</b> , 9, 575-88	10	230
85	The influence of spatial and size scale on phylogenetic relatedness in tropical forest communities. <i>Ecology</i> , <b>2007</b> , 88, 1770-80	4.6	217
84	Scale-dependent relationships between tree species richness and ecosystem function in forests. <i>Journal of Ecology</i> , <b>2013</b> , 101, 1214-1224	6	199
83	A NEIGHBORHOOD ANALYSIS OF TREE GROWTH AND SURVIVAL IN A HURRICANE-DRIVEN TROPICAL FOREST. <i>Ecological Monographs</i> , <b>2004</b> , 74, 591-614	9	192
82	Global importance of large-diameter trees. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 849-864	6.1	185
81	Assessing evidence for a pervasive alteration in tropical tree communities. <i>PLoS Biology</i> , <b>2008</b> , 6, e45	9.7	174
80	LAND USE HISTORY, ENVIRONMENT, AND TREE COMPOSITION IN A TROPICAL FOREST <b>2002</b> , 12, 1344-1363		171
79	Trait similarity, shared ancestry and the structure of neighbourhood interactions in a subtropical wet forest: implications for community assembly. <i>Ecology Letters</i> , <b>2010</b> , 13, 1503-14	10	155
78	Phylogenetic and functional alpha and beta diversity in temperate and tropical tree communities. <i>Ecology</i> , <b>2012</b> , 93, S112-S125	4.6	152
77	Comparing tropical forest tree size distributions with the predictions of metabolic ecology and equilibrium models. <i>Ecology Letters</i> , <b>2006</b> , 9, 589-602	10	144
76	Nonrandom processes maintain diversity in tropical forests. <i>Science</i> , <b>2006</b> , 311, 527-31	33.3	142
75	Temporal turnover in the composition of tropical tree communities: functional determinism and phylogenetic stochasticity. <i>Ecology</i> , <b>2012</b> , 93, 490-9	4.6	135

74	Advances in the use of DNA barcodes to build a community phylogeny for tropical trees in a Puerto Rican forest dynamics plot. <i>PLoS ONE</i> , <b>2010</b> , 5, e15409	3.7	120
73	Abiotic and biotic drivers of seedling survival in a hurricane-impacted tropical forest. <i>Journal of Ecology</i> , <b>2009</b> , 97, 1346-1359	6	116
72	Natural disturbance and human land use as determinants of tropical forest dynamics: results from a forest simulator. <i>Ecological Monographs</i> , <b>2009</b> , 79, 423-443	9	114
71	Seedling recruitment in a hurricane-driven tropical forest: light limitation, density-dependence and the spatial distribution of parent trees. <i>Journal of Ecology</i> , <b>2005</b> , 93, 291-304	6	111
70	Biodiversity and climate determine the functioning of Neotropical forests. <i>Global Ecology and Biogeography</i> , <b>2017</b> , 26, 1423-1434	6.1	110
69	Responses of tropical forest tree seedlings to irradiance and the derivation of a light response index. <i>Journal of Ecology</i> , <b>1999</b> , 87, 815-827	6	100
68	Effect of light on the germination of forest trees in Ghana. <i>Journal of Ecology</i> , <b>1999</b> , 87, 772-783	6	96
67	Ecological Studies on a Lowland Evergreen Rain Forest on Maraca Island, Roraima, Brazil. II. Litter and Nutrient Cycling. <i>Journal of Ecology</i> , <b>1992</b> , 80, 705	6	76
66	Local spatial structure of forest biomass and its consequences for remote sensing of carbon stocks. <i>Biogeosciences</i> , <b>2014</b> , 11, 6827-6840	4.6	70
65	Multispecies coexistence of trees in tropical forests: spatial signals of topographic niche differentiation increase with environmental heterogeneity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 280, 20130502	4.4	63
64	Multidimensional trade-offs in species responses to disturbance: implications for diversity in a subtropical forest. <i>Ecology</i> , <b>2012</b> , 93, 191-205	4.6	58
63	Variation in Susceptibility to Hurricane Damage as a Function of Storm Intensity in Puerto Rican Tree Species. <i>Biotropica</i> , <b>2010</b> , 42, 87-94	2.3	56
62	Ontogenetic shifts in trait-mediated mechanisms of plant community assembly. <i>Ecology</i> , <b>2015</b> , 96, 2157-68	4.8	50
61	Ecological Studies on a Lowland Evergreen Rain Forest on Maraca Island, Roraima, Brazil. I. Physical Environment, Forest Structure and Leaf Chemistry. <i>Journal of Ecology</i> , <b>1992</b> , 80, 689	6	50
60	Rapid Simultaneous Estimation of Aboveground Biomass and Tree Diversity Across Neotropical Forests: A Comparison of Field Inventory Methods. <i>Biotropica</i> , <b>2013</b> , 45, 288-298	2.3	49
59	Liana abundance in a Puerto Rican forest. <i>Forest Ecology and Management</i> , <b>2004</b> , 190, 33-41	3.9	49
58	Long-lasting effects of land use history on soil fungal communities in second-growth tropical rain forests <b>2016</b> , 26, 1881-1895		47
57	Quantifying the sampling error in tree census measurements by volunteers and its effect on carbon stock estimates <b>2013</b> , 23, 936-43		46

56	The H for DBH. <i>Forest Ecology and Management</i> , <b>2000</b> , 129, 89-91	3.9	46
55	Linking spatial patterns of leaf litterfall and soil nutrients in a tropical forest: a neighborhood approach. <i>Ecological Applications</i> , <b>2015</b> , 25, 2022-34	4.9	44
54	Are we failing to protect threatened mangroves in the Sundarbans world heritage ecosystem?. <i>Scientific Reports</i> , <b>2016</b> , 6, 21234	4.9	44
53	Above-ground forest biomass is not consistently related to wood density in tropical forests. <i>Global Ecology and Biogeography</i> , <b>2009</b> , 18, 617-625	6.1	39
52	Hurricane Marı̄ tripled stem breaks and doubled tree mortality relative to other major storms. <i>Nature Communications</i> , <b>2019</b> , 10, 1362	17.4	38
51	Life-history trade-offs during the seed-to-seedling transition in a subtropical wet forest community. <i>Journal of Ecology</i> , <b>2013</b> , 101, 171-182	6	38
50	Cross-Scale Responses of Biodiversity to Hurricane and Anthropogenic Disturbance in a Tropical Forest. <i>Ecosystems</i> , <b>2007</b> , 10, 824-838	3.9	36
49	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. <i>Biological Conservation</i> , <b>2021</b> , 253, 108907	6.2	36
48	Using long-term ecosystem service and biodiversity data to study the impacts and adaptation options in response to climate change: insights from the global ILTER sites network. <i>Current Opinion in Environmental Sustainability</i> , <b>2013</b> , 5, 53-66	7.2	33
47	Improved abundance prediction from presence-absence data. <i>Global Ecology and Biogeography</i> , <b>2009</b> , 18, 1-10	6.1	33
46	Biodiversity in species, traits, and structure determines carbon stocks and uptake in tropical forests. <i>Biotropica</i> , <b>2017</b> , 49, 593-603	2.3	32
45	Patch dynamics and community metastability of a subtropical forest: compound effects of natural disturbance and human land use. <i>Landscape Ecology</i> , <b>2010</b> , 25, 1099-1111	4.3	32
44	Land use history, hurricane disturbance, and the fate of introduced species in a subtropical wet forest in Puerto Rico. <i>Plant Ecology</i> , <b>2007</b> , 192, 289-301	1.7	31
43	Rain forest on Maracı̄ Island, Roraima, Brazil: artificial gaps and plant response to them. <i>Forest Ecology and Management</i> , <b>1998</b> , 102, 305-321	3.9	28
42	Improving predictions of tropical forest response to climate change through integration of field studies and ecosystem modeling. <i>Global Change Biology</i> , <b>2018</b> , 24, e213-e232	11.4	28
41	The Frequency of Cyclonic Wind Storms Shapes Tropical Forest Dynamism and Functional Trait Dispersion. <i>Forests</i> , <b>2018</b> , 9, 404	2.8	26
40	The role of functional uniqueness and spatial aggregation in explaining rarity in trees. <i>Global Ecology and Biogeography</i> , <b>2017</b> , 26, 777-786	6.1	24
39	Interspecific Functional Convergence and Divergence and Intraspecific Negative Density Dependence Underlie the Seed-to-Seedling Transition in Tropical Trees. <i>American Naturalist</i> , <b>2016</b> , 187, 99-109	3.7	24

38	Interactive effects of land use history and natural disturbance on seedling dynamics in a subtropical forest <b>2010</b> , 20, 1270-84		24
37	Climate sensitive size-dependent survival in tropical trees. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1436-1443		23
36	VEGETATION AND SOIL FACTORS ON A HEAVY METAL MINE SPOIL HEAP. <i>New Phytologist</i> , <b>1983</b> , 94, 297-308	9.8	22
35	Arbuscular mycorrhizal fungal diversity and natural enemies promote coexistence of tropical tree species. <i>Ecology</i> , <b>2017</b> , 98, 712-720	4.6	21
34	Hurricane-Induced Rainfall is a Stronger Predictor of Tropical Forest Damage in Puerto Rico Than Maximum Wind Speeds. <i>Scientific Reports</i> , <b>2020</b> , 10, 4318	4.9	20
33	The interaction of land-use legacies and hurricane disturbance in subtropical wet forest: twenty-one years of change. <i>Ecosphere</i> , <b>2016</b> , 7, e01405	3.1	20
32	Forest tree neighborhoods are structured more by negative conspecific density dependence than by interactions among closely related species. <i>Ecography</i> , <b>2018</b> , 41, 1114-1123	6.5	19
31	Rain forest on Maracá Island, Roraima, Brazil: soil and litter process response to artificial gaps. <i>Forest Ecology and Management</i> , <b>1998</b> , 102, 291-303	3.9	19
30	Land-use History Affects the Distribution of the Saprophytic Orchid <i>Wulfschlaegelia calcarata</i> in Puerto Rico's Tabonuco Forest. <i>Biotropica</i> , <b>2006</b> , 38, 492-499	2.3	19
29	Tree crown overlap improves predictions of the functional neighbourhood effects on tree survival and growth. <i>Journal of Ecology</i> , <b>2019</b> , 107, 887-900	6	19
28	Liana dynamics reflect land-use history and hurricane response in a Puerto Rican forest. <i>Journal of Tropical Ecology</i> , <b>2017</b> , 33, 155-164	1.3	17
27	The advantage of the extremes: tree seedlings at intermediate abundance in a tropical forest have the highest richness of above-ground enemies and suffer the most damage. <i>Journal of Ecology</i> , <b>2016</b> , 104, 90-103	6	17
26	Geographic and Ecological Setting of the Luquillo Mountains <b>2012</b> , 72-163		16
25	Population structure, growth rates and spatial distribution of two dioecious tree species in a wet forest in Puerto Rico. <i>Journal of Tropical Ecology</i> , <b>2010</b> , 26, 433-443	1.3	13
24	Associations among arbuscular mycorrhizal fungi and seedlings are predicted to change with tree successional status. <i>Ecology</i> , <b>2018</b> , 99, 607-620	4.6	12
23	Land-use history augments environment-plant community relationship strength in a Puerto Rican wet forest. <i>Journal of Ecology</i> , <b>2016</b> , 104, 1466-1477	6	11
22	Using codispersion analysis to quantify and understand spatial patterns in species-environment relationships. <i>New Phytologist</i> , <b>2016</b> , 211, 735-49	9.8	11
21	Soil nitrogen concentration mediates the relationship between leguminous trees and neighbor diversity in tropical forests. <i>Communications Biology</i> , <b>2020</b> , 3, 317	6.7	10

20	Response to Disturbance <b>2012</b> , 201-271		10
19	Soil characteristics influence species composition and forest structure differentially among tree size classes in a Bornean heath forest. <i>Plant and Soil</i> , <b>2019</b> , 438, 173-185	4.2	9
18	Key impacts of climate engineering on biodiversity and ecosystems, with priorities for future research. <i>Journal of Integrative Environmental Sciences</i> , <b>2016</b> , 1-26	3	8
17	Tree species distributions in relation to stream distance in a mid-montane wet forest, Puerto Rico. <i>Caribbean Journal of Science</i> , <b>2009</b> , 45, 52-63	0.2	8
16	Species-time-area and phylogenetic-time-area relationships in tropical tree communities. <i>Ecology and Evolution</i> , <b>2013</b> , 3, 1173-83	2.8	7
15	The interspecific growth-mortality trade-off is not a general framework for tropical forest community structure. <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 174-183	12.3	7
14	Changes in Phylogenetic Community Structure of the Seedling Layer Following Hurricane Disturbance in a Human-Impacted Tropical Forest. <i>Forests</i> , <b>2018</b> , 9, 556	2.8	7
13	Dry conditions and disturbance promote liana seedling survival and abundance. <i>Ecology</i> , <b>2019</b> , 100, e02546	4.6	6
12	Impact of soil nitrogen availability and pH on tropical heath forest organic matter decomposition and decomposer activity. <i>Pedobiologia</i> , <b>2020</b> , 80, 150645	1.7	5
11	The scale dependency of trait-based tree neighborhood models. <i>Journal of Vegetation Science</i> , <b>2020</b> , 31, 581-593	3.1	5
10	Review of statistical methods and data requirements to support post market environmental monitoring of agro ecosystems. <i>EFSA Supporting Publications</i> , <b>2014</b> , 11, 3883AX1	1.1	5
9	Drought and the interannual variability of stem growth in an aseasonal, everwet forest. <i>Biotropica</i> , <b>2019</b> , 51, 139-154	2.3	4
8	Temporal population variability in local forest communities has mixed effects on tree species richness across a latitudinal gradient. <i>Ecology Letters</i> , <b>2020</b> , 23, 160-171	10	3
7	Arbuscular mycorrhizal trees influence the latitudinal beta-diversity gradient of tree communities in forests worldwide. <i>Nature Communications</i> , <b>2021</b> , 12, 3137	17.4	3
6	LAND USE HISTORY, ENVIRONMENT, AND TREE COMPOSITION IN A TROPICAL FOREST <b>2002</b> , 12, 1344		2
5	Distribution of biomass dynamics in relation to tree size in forests across the world.. <i>New Phytologist</i> , <b>2022</b> ,	9.8	2
4	Analyses of three-dimensional species associations reveal departures from neutrality in a tropical forest.. <i>Ecology</i> , <b>2022</b> , e3681	4.6	2
3	Interactions between all pairs of neighboring trees in 16 forests worldwide reveal details of unique ecological processes in each forest, and provide windows into their evolutionary histories. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008853	5	1

- 2 Large- and small-seeded species have contrasting functional neighborhoods in a subtropical forest. *Ecosphere*, **2020**, 11, e03016 3.1 ○
- 1 Percolation threshold analyses can detect community assembly processes in simulated and natural tree communities. *Methods in Ecology and Evolution*, **2021**, 12, 2028 7.7 ○