

# Helene C Muller-Landau

## List of Publications by Citations

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116  
papers

13,063  
citations

50  
h-index

114  
g-index

127  
ext. papers

15,006  
ext. citations

8  
avg, IF

6.51  
L-index

#	Paper	IF	Citations
116	Spatial patterns of seed dispersal, their determinants and consequences for recruitment. <i>Trends in Ecology and Evolution</i> , <b>2000</b> , 15, 278-285	10.9	1387
115	Improved allometric models to estimate the aboveground biomass of tropical trees. <i>Global Change Biology</i> , <b>2014</b> , 20, 3177-90	11.4	1202
114	Beta-diversity in tropical forest trees. <i>Science</i> , <b>2002</b> , 295, 666-9	33.3	1005
113	The Ecology and Evolution of Seed Dispersal: A Theoretical Perspective. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>2003</b> , 34, 575-604	13.5	552
112	Regional and phylogenetic variation of wood density across 2456 Neotropical tree species <b>2006</b> , 16, 2356-67		520
111	Comparing classical community models: theoretical consequences for patterns of diversity. <i>American Naturalist</i> , <b>2002</b> , 159, 1-23	3.7	475
110	Asymmetric density dependence shapes species abundances in a tropical tree community. <i>Science</i> , <b>2010</b> , 329, 330-2	33.3	451
109	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
108	Vegetation demographics in Earth System Models: A review of progress and priorities. <i>Global Change Biology</i> , <b>2018</b> , 24, 35-54	11.4	309
107	The Future of Tropical Forest Species <sup>1</sup> . <i>Biotropica</i> , <b>2006</b> , 38, 287-301	2.3	304
106	Interspecific and Inter-site Variation in Wood Specific Gravity of Tropical Trees. <i>Biotropica</i> , <b>2004</b> , 36, 20-32		285
105	A universal airborne LiDAR approach for tropical forest carbon mapping. <i>Oecologia</i> , <b>2012</b> , 168, 1147-60	2.9	268
104	Relationships among ecologically important dimensions of plant trait variation in seven neotropical forests. <i>Annals of Botany</i> , <b>2007</b> , 99, 1003-15	4.1	265
103	GAP-DEPENDENT RECRUITMENT, REALIZED VITAL RATES, AND SIZE DISTRIBUTIONS OF TROPICAL TREES. <i>Ecology</i> , <b>2003</b> , 84, 3174-3185	4.6	256
102	Interspecific variation in primary seed dispersal in a tropical forest. <i>Journal of Ecology</i> , <b>2008</b> , 96, 653-667		251
101	The tolerance-fecundity trade-off and the maintenance of diversity in seed size. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 4242-7	11.5	238
100	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

99	Drivers and mechanisms of tree mortality in moist tropical forests. <i>New Phytologist</i> , <b>2018</b> , 219, 851-869	9.8	209
98	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
97	Assessing evidence for a pervasive alteration in tropical tree communities. <i>PLoS Biology</i> , <b>2008</b> , 6, e45	9.7	174
96	Evaluating uncertainty in mapping forest carbon with airborne LiDAR. <i>Remote Sensing of Environment</i> , <b>2011</b> , 115, 3770-3774	13.2	169
95	ANNUAL AND SPATIAL VARIATION IN SEEDFALL AND SEEDLING RECRUITMENT IN A NEOTROPICAL FOREST. <i>Ecology</i> , <b>2005</b> , 86, 848-860	4.6	161
94	The future of tropical species on a warmer planet. <i>Conservation Biology</i> , <b>2009</b> , 23, 1418-26	6	152
93	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
92	Nonrandom processes maintain diversity in tropical forests. <i>Science</i> , <b>2006</b> , 311, 527-31	33.3	142
91	Measuring tree height: a quantitative comparison of two common field methods in a moist tropical forest. <i>Methods in Ecology and Evolution</i> , <b>2013</b> , 4, 793-801	7.7	130
90	Life history trade-offs in tropical trees and lianas. <i>Ecology</i> , <b>2006</b> , 87, 1281-8	4.6	124
89	The Plight of Large Animals in Tropical Forests and the Consequences for Plant Regeneration. <i>Biotropica</i> , <b>2007</b> , 39, 289-291	2.3	120
88	Annual Rainfall and Seasonality Predict Pan-tropical Patterns of Liana Density and Basal Area. <i>Biotropica</i> , <b>2010</b> , 42, 309-317	2.3	117
87	Rethinking the value of high wood density. <i>Functional Ecology</i> , <b>2010</b> , 24, 701-705	5.6	116
86	SAMPLING THE SPECIES COMPOSITION OF A LANDSCAPE. <i>Ecology</i> , <b>2002</b> , 83, 3344-3356	4.6	113
85	Functional traits as predictors of vital rates across the life cycle of tropical trees. <i>Functional Ecology</i> , <b>2016</b> , 30, 168-180	5.6	110
84	Carbon stocks in primary and secondary tropical forests in Singapore. <i>Forest Ecology and Management</i> , <b>2013</b> , 296, 81-89	3.9	105
83	High-fidelity national carbon mapping for resource management and REDD+. <i>Carbon Balance and Management</i> , <b>2013</b> , 8, 7	3.6	86
82	Understanding strategies for seed dispersal by wind under contrasting atmospheric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 19084-9	11.5	84

81	Predicting the Long-Term Effects of Hunting on Plant Species Composition and Diversity in Tropical Forests. <i>Biotropica</i> , <b>2007</b> , 39, 372-384	2.3	82
80	The Uncertain Future of Tropical Forest Species <sup>1</sup> . <i>Biotropica</i> , <b>2006</b> , 38, 443-445	2.3	76
79	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
78	Functional composition drives ecosystem function through multiple mechanisms in a broadleaved subtropical forest. <i>Oecologia</i> , <b>2016</b> , 182, 829-40	2.9	68
77	Negative density dependence of seed dispersal and seedling recruitment in a neotropical palm. <i>Ecology Letters</i> , <b>2014</b> , 17, 1111-20	10	64
76	When do localized natural enemies increase species richness?. <i>Ecology Letters</i> , <b>2005</b> , 8, 438-447	10	63
75	THEORETICAL PERSPECTIVES ON EVOLUTION OF LONG-DISTANCE DISPERSAL AND THE EXAMPLE OF SPECIALIZED PESTS. <i>Ecology</i> , <b>2003</b> , 84, 1957-1967	4.6	58
74	The roots of diversity: below ground species richness and rooting distributions in a tropical forest revealed by DNA barcodes and inverse modeling. <i>PLoS ONE</i> , <b>2011</b> , 6, e24506	3.7	57
73	Differential Effects of Hunting on Pre-Dispersal Seed Predation and Primary and Secondary Seed Removal of Two Neotropical Tree Species. <i>Biotropica</i> , <b>2007</b> , 39, 328-339	2.3	56
72	Space, time and complexity in plant dispersal ecology. <i>Movement Ecology</i> , <b>2014</b> , 2, 16	4.6	55
71	Positive effects of neighborhood complementarity on tree growth in a Neotropical forest. <i>Ecology</i> , <b>2016</b> , 97, 776-85	4.6	54
70	Hydrological networks and associated topographic variation as templates for the spatial organization of tropical forest vegetation. <i>PLoS ONE</i> , <b>2013</b> , 8, e76296	3.7	53
69	Resource acquisition and reproductive strategies of tropical forest in response to the El Niño-Southern Oscillation. <i>Nature Communications</i> , <b>2018</b> , 9, 913	17.4	52
68	Seed dispersal of desert annuals. <i>Ecology</i> , <b>2008</b> , 89, 2218-27	4.6	52
67	Seed dispersal of woody plants in tropical forests: concepts, examples and future directions <b>2005</b> , 267-309		50
66	Temperature explains global variation in biomass among humid old-growth forests. <i>Global Ecology and Biogeography</i> , <b>2012</b> , 21, 998-1006	6.1	49
65	Role of tree size in moist tropical forest carbon cycling and water deficit responses. <i>New Phytologist</i> , <b>2018</b> , 219, 947-958	9.8	47
64	Quantifying Leaf Phenology of Individual Trees and Species in a Tropical Forest Using Unmanned Aerial Vehicle (UAV) Images. <i>Remote Sensing</i> , <b>2019</b> , 11, 1534	5	46

63	Dissecting biomass dynamics in a large Amazonian forest plot. <i>Journal of Tropical Ecology</i> , <b>2009</b> , 25, 473-482	4.8	46
62	Spatial variability in tropical forest leaf area density from multireturn lidar and modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2015</b> , 120, 294-309	3.7	43
61	Tri-trophic interactions affect density dependence of seed fate in a tropical forest palm. <i>Ecology Letters</i> , <b>2011</b> , 14, 1093-100	10	42
60	Topographic variation in aboveground biomass in a subtropical evergreen broad-leaved forest in China. <i>PLoS ONE</i> , <b>2012</b> , 7, e48244	3.7	41
59	A theoretical model linking interspecific variation in density dependence to species abundances. <i>Theoretical Ecology</i> , <b>2011</b> , 4, 241-253	1.6	39
58	Drought-induced mortality patterns and rapid biomass recovery in a terra firme forest in the Colombian Amazon. <i>Ecology</i> , <b>2017</b> , 98, 2538-2546	4.6	38
57	Improving estimates of biomass change in buttressed trees using tree taper models. <i>Methods in Ecology and Evolution</i> , <b>2014</b> , 5, 573-582	7.7	37
56	The interacting effects of clumped seed dispersal and distance- and density-dependent mortality on seedling recruitment patterns. <i>Journal of Ecology</i> , <b>2012</b> , 100, 862-873	6	36
55	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. <i>Biological Conservation</i> , <b>2021</b> , 253, 108907	6.2	36
54	Benchmarking and parameter sensitivity of physiological and vegetation dynamics using the Functionally Assembled Terrestrial Ecosystem Simulator (FATES) at Barro Colorado Island, Panama. <i>Biogeosciences</i> , <b>2020</b> , 17, 3017-3044	4.6	35
53	Fitting ecological process models to spatial patterns using scalewise variances and moment equations. <i>American Naturalist</i> , <b>2013</b> , 181, E68-82	3.7	34
52	Tree diversity, tree height and environmental harshness in eastern and western North America. <i>Ecology Letters</i> , <b>2016</b> , 19, 743-51	10	33
51	Tree species vary widely in their tolerance for liana infestation: A case study of differential host response to generalist parasites. <i>Journal of Ecology</i> , <b>2018</b> , 106, 781-794	6	32
50	Comparison of decay classification, knife test, and two penetrometers for estimating wood density of coarse woody debris. <i>Canadian Journal of Forest Research</i> , <b>2010</b> , 40, 2313-2321	1.9	30
49	Size-related scaling of tree form and function in a mixed-age forest. <i>Functional Ecology</i> , <b>2015</b> , 29, 1587-1602	16.02	29
48	Comment on "From plant traits to plant communities: a statistical mechanistic approach to biodiversity". <i>Science</i> , <b>2007</b> , 316, 1425; author reply 1425	33.3	28
47	Seed arrival in tropical forest tree fall gaps. <i>Ecology</i> , <b>2013</b> , 94, 1552-62	4.6	27
46	Local spatial structure of forest biomass and its consequences for remote sensing of carbon stocks		26

45	Lightning is a major cause of large tree mortality in a lowland neotropical forest. <i>New Phytologist</i> , <b>2020</b> , 225, 1936-1944	9.8	25
44	Linking fruit traits to variation in predispersal vertebrate seed predation, insect seed predation, and pathogen attack. <i>Ecology</i> , <b>2011</b> , 92, 2131-40	4.6	24
43	Unimodal tree size distributions possibly result from relatively strong conservatism in intermediate size classes. <i>PLoS ONE</i> , <b>2012</b> , 7, e52596	3.7	24
42	Detecting and projecting changes in forest biomass from plot data381-416		23
41	Signs of stabilisation and stable coexistence. <i>Ecology Letters</i> , <b>2019</b> , 22, 1957-1975	10	22
40	Tropical tree height and crown allometries for the Barro Colorado Nature Monument, Panama: a comparison of alternative hierarchical models incorporating interspecific variation in relation to life history traits. <i>Biogeosciences</i> , <b>2019</b> , 16, 847-862	4.6	21
39	Still rethinking the value of high wood density. <i>American Journal of Botany</i> , <b>2012</b> , 99, 165-8	2.7	20
38	Growth and reproduction respond differently to climate in three Neotropical tree species. <i>Oecologia</i> , <b>2017</b> , 184, 531-541	2.9	19
37	Insights into regional patterns of Amazonian forest structure, diversity, and dominance from three large terra-firme forest dynamics plots. <i>Biodiversity and Conservation</i> , <b>2017</b> , 26, 669-686	3.4	19
36	Large-scale spatial variation in palm fruit abundance across a tropical moist forest estimated from high-resolution aerial photographs. <i>Ecography</i> , <b>2008</b> , 31, 33-42	6.5	19
35	Distorted-distance models for directional dispersal: a general framework with application to a wind-dispersed tree. <i>Methods in Ecology and Evolution</i> , <b>2012</b> , 3, 642-652	7.7	18
34	Dead Wood Necromass in a Moist Tropical Forest: Stocks, Fluxes, and Spatiotemporal Variability. <i>Ecosystems</i> , <b>2019</b> , 22, 1189-1205	3.9	17
33	Patterns and mechanisms of spatial variation in tropical forest productivity, woody residence time, and biomass. <i>New Phytologist</i> , <b>2021</b> , 229, 3065-3087	9.8	17
32	Surviving in a Cosexual World: A Cost-Benefit Analysis of Dioecy in Tropical Trees. <i>American Naturalist</i> , <b>2017</b> , 189, 297-314	3.7	16
31	Intraspecific variation in seed dispersal of a Neotropical tree and its relationship to fruit and tree traits. <i>Ecology and Evolution</i> , <b>2016</b> , 6, 1128-42	2.8	16
30	Bushmeat hunting and climate: an indirect link. <i>Science</i> , <b>2010</b> , 327, 30	33.3	15
29	A host-parasite model explains variation in liana infestation among co-occurring tree species. <i>Journal of Ecology</i> , <b>2018</b> , 106, 2435-2445	6	14
28	Functional traits of tropical trees and lianas explain spatial structure across multiple scales. <i>Journal of Ecology</i> , <b>2018</b> , 106, 795-806	6	14

27	Quantifying the role of wood density in explaining interspecific variation in growth of tropical trees. <i>Global Ecology and Biogeography</i> , <b>2017</b> , 26, 1078-1087	6.1	13
26	How do lianas and vines influence competitive differences and niche differences among tree species? Concepts and a case study in a tropical forest. <i>Journal of Ecology</i> , <b>2019</b> , 107, 1469-1481	6	12
25	Rates of formation and dissipation of clumping reveal lagged responses in tropical tree populations. <i>Ecology</i> , <b>2016</b> , 97, 1170-81	4.6	11
24	A phenology model for tropical species that flower multiple times each year. <i>Ecological Research</i> , <b>2019</b> , 34, 20-29	1.9	10
23	Allometric constraints and competition enable the simulation of size structure and carbon fluxes in a dynamic vegetation model of tropical forests (LM3PPA-TV). <i>Global Change Biology</i> , <b>2020</b> , 26, 4478-4494	11.4	10
22	The emergence of diversity in plant communities. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , <b>2000</b> , 323, 129-39		10
21	Carbon cycling in mature and regrowth forests globally. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 053006	9.2	10
20	Testing for changes in biomass dynamics in large-scale forest datasets. <i>Global Change Biology</i> , <b>2020</b> , 26, 1485-1498	11.4	9
19	Stabilization of species coexistence in spatial models through the aggregation-segregation effect generated by local dispersal and nonspecific local interactions. <i>Theoretical Population Biology</i> , <b>2016</b> , 112, 97-108	1.2	9
18	Pantropical geography of lightning-caused disturbance and its implications for tropical forests. <i>Global Change Biology</i> , <b>2020</b> , 26, 5017-5026	11.4	8
17	How do size distributions relate to concurrently measured demographic rates? Evidence from over 150 tree species in Panama. <i>Journal of Tropical Ecology</i> , <b>2016</b> , 32, 179-192	1.3	7
16	A mechanistic and empirically supported lightning risk model for forest trees. <i>Journal of Ecology</i> , <b>2020</b> , 108, 1956-1966	6	7
15	Leaf turgor loss point shapes local and regional distributions of evergreen but not deciduous tropical trees. <i>New Phytologist</i> , <b>2021</b> , 230, 485-496	9.8	7
14	Cascading effects of defaunation on the coexistence of two specialized insect seed predators. <i>Journal of Animal Ecology</i> , <b>2017</b> , 86, 136-146	4.7	6
13	Global patterns of forest autotrophic carbon fluxes. <i>Global Change Biology</i> , <b>2021</b> , 27, 2840-2855	11.4	6
12	Tree diversity in relation to maximum tree height: evidence for the harshness hypothesis of species diversity gradients. <i>Ecology Letters</i> , <b>2017</b> , 20, 398-399	10	5
11	What Determines the Abundance of Lianas and Vines? <b>2020</b> , 239-264		5
10	Ecology: plant diversity rooted in pathogens. <i>Nature</i> , <b>2014</b> , 506, 44-5	50.4	4

9	Estimation of sticking and contact efficiencies in aggregation of phytoplankton: The 1993 SIGMA tank experiment. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>1995</b> , 42, 185-201	2.3	4
8	Individual tree damage dominates mortality risk factors across six tropical forests. <i>New Phytologist</i> , <b>2021</b> , 233, 705	9.8	4
7	Integrating high resolution drone imagery and forest inventory to distinguish canopy and understory trees and quantify their contributions to forest structure and dynamics. <i>PLoS ONE</i> , <b>2020</b> , 15, e0243079	3.7	3
6	Variation in trunk taper of buttressed trees within and among five lowland tropical forests. <i>Biotropica</i> , <b>2021</b> , 53, 1442-1453	2.3	3
5	REGIONAL AND PHYLOGENETIC VARIATION OF WOOD DENSITY ACROSS 2456 NEOTROPICAL TREE SPECIES <b>2006</b> , 16, 2356		2
4	Distribution of biomass dynamics in relation to tree size in forests across the world.. <i>New Phytologist</i> , <b>2022</b> ,	9.8	2
3	Strong temporal variation in treefall and branchfall rates in a tropical forest is related to extreme rainfall: results from 5 years of monthly drone data for a 50 ha plot. <i>Biogeosciences</i> , <b>2021</b> , 18, 6517-6531	4.6	1
2	Liana optical traits increase tropical forest albedo and reduce ecosystem productivity. <i>Global Change Biology</i> , <b>2022</b> , 28, 227-244	11.4	1
1	Simulating environmentally sensitive tree recruitment in vegetation demographic models.. <i>New Phytologist</i> , <b>2022</b> ,	9.8	1