

Helene C Muller-Landau

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4084252/helene-c-muller-landau-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Liana optical traits increase tropical forest albedo and reduce ecosystem productivity. <i>Global Change Biology</i> , 2022 , 28, 227-244	11.4	1
115	Distribution of biomass dynamics in relation to tree size in forests across the world.. <i>New Phytologist</i> , 2022 ,	9.8	2
114	Simulating environmentally sensitive tree recruitment in vegetation demographic models.. <i>New Phytologist</i> , 2022 ,	9.8	1
113	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> , 2021 , 18, 6517-6531	4.6	1
112	Individual tree damage dominates mortality risk factors across six tropical forests. <i>New Phytologist</i> , 2021 , 233, 705	9.8	4
111	Global patterns of forest autotrophic carbon fluxes. <i>Global Change Biology</i> , 2021 , 27, 2840-2855	11.4	6
110	Carbon cycling in mature and regrowth forests globally. <i>Environmental Research Letters</i> , 2021 , 16, 053006	9.2	10
109	Variation in trunk taper of buttressed trees within and among five lowland tropical forests. <i>Biotropica</i> , 2021 , 53, 1442-1453	2.3	3
108	Patterns and mechanisms of spatial variation in tropical forest productivity, woody residence time, and biomass. <i>New Phytologist</i> , 2021 , 229, 3065-3087	9.8	17
107	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. <i>Biological Conservation</i> , 2021 , 253, 108907	6.2	36
106	Leaf turgor loss point shapes local and regional distributions of evergreen but not deciduous tropical trees. <i>New Phytologist</i> , 2021 , 230, 485-496	9.8	7
105	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> , 2020 , 26, 4478-4494	11.4	10
104	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> , 2020 , 17, 3017-3044	4.6	35
103	Pantropical geography of lightning-caused disturbance and its implications for tropical forests. <i>Global Change Biology</i> , 2020 , 26, 5017-5026	11.4	8
102	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> , 2020 , 15, e0243079	3.7	3
101	What Determines the Abundance of Lianas and Vines? 2020 , 239-264		5
100	Testing for changes in biomass dynamics in large-scale forest datasets. <i>Global Change Biology</i> , 2020 , 26, 1485-1498	11.4	9

99	Lightning is a major cause of large tree mortality in a lowland neotropical forest. <i>New Phytologist</i> , 2020 , 225, 1936-1944	9.8	25
98	A mechanistic and empirically supported lightning risk model for forest trees. <i>Journal of Ecology</i> , 2020 , 108, 1956-1966	6	7
97	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> , 2019 , 16, 847-862	4.6	21
96	Dead Wood Necromass in a Moist Tropical Forest: Stocks, Fluxes, and Spatiotemporal Variability. <i>Ecosystems</i> , 2019 , 22, 1189-1205	3.9	17
95	A phenology model for tropical species that flower multiple times each year. <i>Ecological Research</i> , 2019 , 34, 20-29	1.9	10
94	Quantifying Leaf Phenology of Individual Trees and Species in a Tropical Forest Using Unmanned Aerial Vehicle (UAV) Images. <i>Remote Sensing</i> , 2019 , 11, 1534	5	46
93	Signs of stabilisation and stable coexistence. <i>Ecology Letters</i> , 2019 , 22, 1957-1975	10	22
92	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> , 2019 , 107, 1469-1481	6	12
91	Resource acquisition and reproductive strategies of tropical forest in response to the El Niño-Southern Oscillation. <i>Nature Communications</i> , 2018 , 9, 913	17.4	52
90	Drivers and mechanisms of tree mortality in moist tropical forests. <i>New Phytologist</i> , 2018 , 219, 851-869	9.8	209
89	A host-parasite model explains variation in liana infestation among co-occurring tree species. <i>Journal of Ecology</i> , 2018 , 106, 2435-2445	6	14
88	Functional traits of tropical trees and lianas explain spatial structure across multiple scales. <i>Journal of Ecology</i> , 2018 , 106, 795-806	6	14
87	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> , 2018 , 106, 781-794	6	32
86	Vegetation demographics in Earth System Models: A review of progress and priorities. <i>Global Change Biology</i> , 2018 , 24, 35-54	11.4	309
85	Role of tree size in moist tropical forest carbon cycling and water deficit responses. <i>New Phytologist</i> , 2018 , 219, 947-958	9.8	47
84	Tree diversity in relation to maximum tree height: evidence for the harshness hypothesis of species diversity gradients. <i>Ecology Letters</i> , 2017 , 20, 398-399	10	5
83	Surviving in a Cosexual World: A Cost-Benefit Analysis of Dioecy in Tropical Trees. <i>American Naturalist</i> , 2017 , 189, 297-314	3.7	16
82	Growth and reproduction respond differently to climate in three Neotropical tree species. <i>Oecologia</i> , 2017 , 184, 531-541	2.9	19

81	Insights into regional patterns of Amazonian forest structure, diversity, and dominance from three large terra-firme forest dynamics plots. <i>Biodiversity and Conservation</i> , 2017 , 26, 669-686	3.4	19
80	Quantifying the role of wood density in explaining interspecific variation in growth of tropical trees. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1078-1087	6.1	13
79	Drought-induced mortality patterns and rapid biomass recovery in a terra firme forest in the Colombian Amazon. <i>Ecology</i> , 2017 , 98, 2538-2546	4.6	38
78	Cascading effects of defaunation on the coexistence of two specialized insect seed predators. <i>Journal of Animal Ecology</i> , 2017 , 86, 136-146	4.7	6
77	How do size distributions relate to concurrently measured demographic rates? Evidence from over 150 tree species in Panama. <i>Journal of Tropical Ecology</i> , 2016 , 32, 179-192	1.3	7
76	Positive effects of neighborhood complementarity on tree growth in a Neotropical forest. <i>Ecology</i> , 2016 , 97, 776-85	4.6	54
75	Rates of formation and dissipation of clumping reveal lagged responses in tropical tree populations. <i>Ecology</i> , 2016 , 97, 1170-81	4.6	11
74	Tree diversity, tree height and environmental harshness in eastern and western North America. <i>Ecology Letters</i> , 2016 , 19, 743-51	10	33
73	Functional traits as predictors of vital rates across the life cycle of tropical trees. <i>Functional Ecology</i> , 2016 , 30, 168-180	5.6	110
72	Intraspecific variation in seed dispersal of a Neotropical tree and its relationship to fruit and tree traits. <i>Ecology and Evolution</i> , 2016 , 6, 1128-42	2.8	16
71	Functional composition drives ecosystem function through multiple mechanisms in a broadleaved subtropical forest. <i>Oecologia</i> , 2016 , 182, 829-40	2.9	68
70	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> , 2016 , 112, 97-108	1.2	9
69	CTFS-ForestGEO: a worldwide network monitoring forests in an era of global change. <i>Global Change Biology</i> , 2015 , 21, 528-49	11.4	368
68	Size-related scaling of tree form and function in a mixed-age forest. <i>Functional Ecology</i> , 2015 , 29, 1587-1602	5.0	29
67	Spatial variability in tropical forest leaf area density from multireturn lidar and modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 294-309	3.7	43
66	Improving estimates of biomass change in buttressed trees using tree taper models. <i>Methods in Ecology and Evolution</i> , 2014 , 5, 573-582	7.7	37
65	Improved allometric models to estimate the aboveground biomass of tropical trees. <i>Global Change Biology</i> , 2014 , 20, 3177-90	11.4	1202
64	Ecology: plant diversity rooted in pathogens. <i>Nature</i> , 2014 , 506, 44-5	50.4	4

63	Negative density dependence of seed dispersal and seedling recruitment in a neotropical palm. <i>Ecology Letters</i> , 2014 , 17, 1111-20	10	64
62	Local spatial structure of forest biomass and its consequences for remote sensing of carbon stocks. <i>Biogeosciences</i> , 2014 , 11, 6827-6840	4.6	70
61	Space, time and complexity in plant dispersal ecology. <i>Movement Ecology</i> , 2014 , 2, 16	4.6	55
60	High-fidelity national carbon mapping for resource management and REDD+. <i>Carbon Balance and Management</i> , 2013 , 8, 7	3.6	86
59	Seed arrival in tropical forest tree fall gaps. <i>Ecology</i> , 2013 , 94, 1552-62	4.6	27
58	Scale-dependent relationships between tree species richness and ecosystem function in forests. <i>Journal of Ecology</i> , 2013 , 101, 1214-1224	6	199
57	Fitting ecological process models to spatial patterns using scalewise variances and moment equations. <i>American Naturalist</i> , 2013 , 181, E68-82	3.7	34
56	Carbon stocks in primary and secondary tropical forests in Singapore. <i>Forest Ecology and Management</i> , 2013 , 296, 81-89	3.9	105
55	Measuring tree height: a quantitative comparison of two common field methods in a moist tropical forest. <i>Methods in Ecology and Evolution</i> , 2013 , 4, 793-801	7.7	130
54	Hydrological networks and associated topographic variation as templates for the spatial organization of tropical forest vegetation. <i>PLoS ONE</i> , 2013 , 8, e76296	3.7	53
53	The interacting effects of clumped seed dispersal and distance- and density-dependent mortality on seedling recruitment patterns. <i>Journal of Ecology</i> , 2012 , 100, 862-873	6	36
52	Temperature explains global variation in biomass among humid old-growth forests. <i>Global Ecology and Biogeography</i> , 2012 , 21, 998-1006	6.1	49
51	Distorted-distance models for directional dispersal: a general framework with application to a wind-dispersed tree. <i>Methods in Ecology and Evolution</i> , 2012 , 3, 642-652	7.7	18
50	Topographic variation in aboveground biomass in a subtropical evergreen broad-leaved forest in China. <i>PLoS ONE</i> , 2012 , 7, e48244	3.7	41
49	A universal airborne LiDAR approach for tropical forest carbon mapping. <i>Oecologia</i> , 2012 , 168, 1147-60	2.9	268
48	Still rethinking the value of high wood density. <i>American Journal of Botany</i> , 2012 , 99, 165-8	2.7	20
47	Unimodal tree size distributions possibly result from relatively strong conservatism in intermediate size classes. <i>PLoS ONE</i> , 2012 , 7, e52596	3.7	24
46	Evaluating uncertainty in mapping forest carbon with airborne LiDAR. <i>Remote Sensing of Environment</i> , 2011 , 115, 3770-3774	13.2	169

45	Tri-trophic interactions affect density dependence of seed fate in a tropical forest palm. <i>Ecology Letters</i> , 2011 , 14, 1093-100	10	42
44	A theoretical model linking interspecific variation in density dependence to species abundances. <i>Theoretical Ecology</i> , 2011 , 4, 241-253	1.6	39
43	Linking fruit traits to variation in predispersal vertebrate seed predation, insect seed predation, and pathogen attack. <i>Ecology</i> , 2011 , 92, 2131-40	4.6	24
42	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> , 2011 , 6, e24506	3.7	57
41	Annual Rainfall and Seasonality Predict Pan-tropical Patterns of Liana Density and Basal Area. <i>Biotropica</i> , 2010 , 42, 309-317	2.3	117
40	Rethinking the value of high wood density. <i>Functional Ecology</i> , 2010 , 24, 701-705	5.6	116
39	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> , 2010 , 107, 4242-7	11.5	238
38	Bushmeat hunting and climate: an indirect link. <i>Science</i> , 2010 , 327, 30	33.3	15
37	Asymmetric density dependence shapes species abundances in a tropical tree community. <i>Science</i> , 2010 , 329, 330-2	33.3	451
36	Comparison of decay classification, knife test, and two penetrometers for estimating wood density of coarse woody debris. <i>Canadian Journal of Forest Research</i> , 2010 , 40, 2313-2321	1.9	30
35	The future of tropical species on a warmer planet. <i>Conservation Biology</i> , 2009 , 23, 1418-26	6	152
34	Dissecting biomass dynamics in a large Amazonian forest plot. <i>Journal of Tropical Ecology</i> , 2009 , 25, 473-482	4.3	46
33	Interspecific variation in primary seed dispersal in a tropical forest. <i>Journal of Ecology</i> , 2008 , 96, 653-667	6	251
32	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> , 2008 , 105, 19084-9	11.5	84
31	Large-scale spatial variation in palm fruit abundance across a tropical moist forest estimated from high-resolution aerial photographs. <i>Ecography</i> , 2008 , 31, 33-42	6.5	19
30	Seed dispersal of desert annuals. <i>Ecology</i> , 2008 , 89, 2218-27	4.6	52
29	Assessing evidence for a pervasive alteration in tropical tree communities. <i>PLoS Biology</i> , 2008 , 6, e45	9.7	174
28	Relationships among ecologically important dimensions of plant trait variation in seven neotropical forests. <i>Annals of Botany</i> , 2007 , 99, 1003-15	4.1	265

27	Differential Effects of Hunting on Pre-Dispersal Seed Predation and Primary and Secondary Seed Removal of Two Neotropical Tree Species. <i>Biotropica</i> , 2007 , 39, 328-339	2.3	56
26	Predicting the Long-Term Effects of Hunting on Plant Species Composition and Diversity in Tropical Forests. <i>Biotropica</i> , 2007 , 39, 372-384	2.3	82
25	The Plight of Large Animals in Tropical Forests and the Consequences for Plant Regeneration. <i>Biotropica</i> , 2007 , 39, 289-291	2.3	120
24	Comment on "From plant traits to plant communities: a statistical mechanistic approach to biodiversity". <i>Science</i> , 2007 , 316, 1425; author reply 1425	33.3	28
23	Nonrandom processes maintain diversity in tropical forests. <i>Science</i> , 2006 , 311, 527-31	33.3	142
22	Regional and phylogenetic variation of wood density across 2456 Neotropical tree species 2006 , 16, 2356-67		520
21	Life history trade-offs in tropical trees and lianas. <i>Ecology</i> , 2006 , 87, 1281-8	4.6	124
20	Testing metabolic ecology theory for allometric scaling of tree size, growth and mortality in tropical forests. <i>Ecology Letters</i> , 2006 , 9, 575-88	10	230
19	Comparing tropical forest tree size distributions with the predictions of metabolic ecology and equilibrium models. <i>Ecology Letters</i> , 2006 , 9, 589-602	10	144
18	The Future of Tropical Forest Species ¹ . <i>Biotropica</i> , 2006 , 38, 287-301	2.3	304
17	The Uncertain Future of Tropical Forest Species ¹ . <i>Biotropica</i> , 2006 , 38, 443-445	2.3	76
16	REGIONAL AND PHYLOGENETIC VARIATION OF WOOD DENSITY ACROSS 2456 NEOTROPICAL TREE SPECIES 2006 , 16, 2356		2
15	Seed dispersal of woody plants in tropical forests: concepts, examples and future directions 2005 , 267-309		50
14	When do localized natural enemies increase species richness?. <i>Ecology Letters</i> , 2005 , 8, 438-447	10	63
13	ANNUAL AND SPATIAL VARIATION IN SEEDFALL AND SEEDLING RECRUITMENT IN A NEOTROPICAL FOREST. <i>Ecology</i> , 2005 , 86, 848-860	4.6	161
12	Interspecific and Inter-site Variation in Wood Specific Gravity of Tropical Trees. <i>Biotropica</i> , 2004 , 36, 20-323		285
11	THEORETICAL PERSPECTIVES ON EVOLUTION OF LONG-DISTANCE DISPERSAL AND THE EXAMPLE OF SPECIALIZED PESTS. <i>Ecology</i> , 2003 , 84, 1957-1967	4.6	58
10	GAP-DEPENDENT RECRUITMENT, REALIZED VITAL RATES, AND SIZE DISTRIBUTIONS OF TROPICAL TREES. <i>Ecology</i> , 2003 , 84, 3174-3185	4.6	256

9	The Ecology and Evolution of Seed Dispersal: A Theoretical Perspective. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2003 , 34, 575-604	13.5	552
8	Beta-diversity in tropical forest trees. <i>Science</i> , 2002 , 295, 666-9	33.3	1005
7	SAMPLING THE SPECIES COMPOSITION OF A LANDSCAPE. <i>Ecology</i> , 2002 , 83, 3344-3356	4.6	113
6	Comparing classical community models: theoretical consequences for patterns of diversity. <i>American Naturalist</i> , 2002 , 159, 1-23	3.7	475
5	Spatial patterns of seed dispersal, their determinants and consequences for recruitment. <i>Trends in Ecology and Evolution</i> , 2000 , 15, 278-285	10.9	1387
4	The emergence of diversity in plant communities. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , 2000 , 323, 129-39		10
3	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> , 1995 , 42, 185-201	2.3	4
2	Detecting and projecting changes in forest biomass from plot data 381-416		23
1	Local spatial structure of forest biomass and its consequences for remote sensing of carbon stocks		26